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INTERNATIONAL METEOROLOGY

FOR THE MONTH OF MARCH, 1882.

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WASHINGTON, D. C.:
APRIL, 1883.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON MARCH 1, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours	.....	.....	30.29	769.3	68.7	20.4	89	nw.	.....	.....	2	.....	2	.....	.....	c	0	fair	Moiroud.
Algiers	.....	.....	30.12	765.0	64.4	18.0	58	w.	.....	.....	1	.....	0	.....	.....	inap.	inap.	clear	Nicolas.
La Calle	.....	.....	30.09	764.3	69.4	20.8	67	wnw.	.....	.....	2	.....	2	.....	.....	0	0	fair	Fonfrède.
Tunis	.....	.....	30.11	764.7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.32	770.0	63.0	17.2	52	nw.	.....	.....	3	.....	3	.....	.....	0.020	0.5	pretty fair	Dumas.
Tebessa	.....	.....	30.22	767.5	47.8	8.8	71	nw.	.....	.....	3	.....	3	.....	.....	0	0	pretty fair	Derché.
Geriville	.....	.....	.....	.....	65.8	18.8	14	wnw.	.....	.....	3	.....	3	.....	.....	0	0	pretty fair	Lonchamp.
Laghouat	.....	.....	30.30	769.7	71.6	22.0	34	sw.	.....	.....	1	.....	1	.....	.....	0	0	very fair	Herbin.
Biskra	.....	.....	30.28	769.1	77.4	25.2	30	wsw.	.....	.....	1	.....	5	.....	.....	0	0	cloudy	Malau.
Australian.																			
Melbourne, Victoria	29.95	760.7	30.04	763.0	63.7	17.6	80	s.	11	4.9	.....	.....	10	.....	.....	0	0	dull	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.22	742.1	29.76	755.9	56.5	13.6	61	sw.	.....	.....	5	.....	3	.....	.....	0.055	1.4	.....	Prof. Ivan Stozir
Cracow, I. R Observatory	28.92	734.5	29.68	753.8	54.3	12.4	57	s.	4.3	1.9	.....	.....	8	.....	.....	0	0	.....	Dr. Wierzbiski.
Eperies	28.85	732.8	29.73	755.1	50.0	10.0	72	s.	.....	.....	3	cs	6 s	.....	n.	0.126	3.2	.....	Julius Mikolik.
Gratz	28.46	722.8	29.71	754.6	49.3	9.6	68	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	Andreas Rospini.
Hermannstadt	28.43	722.0	29.85	758.2	54.3	12.4	60	nw.	.....	.....	3	.....	9	.....	.....	0	0	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.29	718.6	29.63	752.7	47.1	8.4	79	sw.	.....	.....	1	.....	4	.....	.....	0.264	6.7	raining	The Staff.
Lemberg	28.78	731.0	29.78	756.3	44.8	7.1	81	nw.	.....	.....	1	.....	6	.....	.....	0	0	.....	Dr. T. Stanecki.
Pola	29.72	754.8	29.83	757.7	54.3	12.4	87	sse.	.....	.....	3	.....	10	.....	.....	0	0	.....	I. R. Hydrographic Office.
Szathmar	29.35	745.5	29.82	757.3	48.6	9.2	75	e.	.....	.....	1	.....	3	.....	.....	0	0	light fog	Joseph Midlinszky, S. J.
Szegedin	29.46	748.2	29.74	755.3	55.8	13.2	91	sw.	.....	.....	2	.....	4	.....	.....	0	0	.....	Karl Stancel.
Trieste	29.70	754.4	29.80	757.0	55.8	13.2	73	e.	.....	.....	1	.....	10	.....	.....	1.012	25.7	.....	Rieder.
Vienna	28.95	735.2	29.66	753.3	51.8	11.0	65	calm	.....	.....	0	.....	10	.....	.....	0.020	0.5	.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.06	738.1	29.16	740 7	35.6	2.0	86	e.	48	21.5	.....	.....	10	.....	.....	0.48	12.2	rain & snow	W. Boswell.
Armagh, Observatory	28.53	724.6	28.78	731.0	42.9	6.1	96	ene.	11	4.9	.....	.....	10	.....	.....	.....	.....	raining	S. Call.
Bidston, Liverpool Obs'y	.....	.....	28.82	732.0	45.0	7.2	90	wsw.	16	7.2	.....	.....	10	.....	.....	.....	.....	overcast	John Hartnup.
Bolton, Sharples	28.30	718.8	28.82	732.0	43.8	6.6	94	ese.	.....	.....	.....	.....	10	.....	.....	.....	.....	raining	Thomas Mackereth [A.S.
Bradford, Yorkshire	28.46	722.9	28.86	733.0	43.5	6.4	89	sw.	.....	.....	1	.....	10	.....	.....	0.40	10.2	raining	J. McLandsborough, F. R.
Bridgetown, Barbadoes	30.00	762.0	30.03	762.7	83.0	28.3	64	ne.	.....	.....	2	.....	3	.....	.....	.....	.....	blue sky	Pvt. J. Surgenor, A. H.C.
Cardington	.....	.....	28.94	735.1	48.4	9.1	74	w.	.....	.....	7–0	.....	10	.....	.....	.....	.....	overcast	John McLaren.
Chatham, School M. E.	28.96	735.6	29.09	738.9	49.1	9.5	66	sw.	.....	.....	3	.....	7	.....	.....	blank	blank	d. clouds	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	28.91	734.3	29.13	739.9	45.0	7.2	76	w.	.....	.....	6	.....	9	.....	.....	.....	.....	raining	The Staff.
Fort Napier, Natal	27.47	697.7	29.69	754.1	89.2	31.8	43	calm	.....	.....	0	.....	3	.....	.....	.....	.....	blue sky	Pvt. E. K. Annis, A. H.C.
Free Town, Sierra Leone	29.58	751.3	29.81	757.2	89.0	31.7	63	w.	.....	.....	1	.....	3	.....	.....	.....	.....	d. clouds	Sergt. John Robinson.
Galway, Queen's College	.....	.....	29.79	756.7	.....	.....	.....	nnw.	.....	.....	2	.....	10	.....	.....	0.34	8.6	overcast	J. O'Donaghue.
Gibraltar, Mediterranean	30.28	769.1	30.34	770.6	63.5	17.5	81	w.	.....	.....	3	.....	6	.....	.....	.....	.....	d. clouds	Cpl. O. Baldwin.
Glasgow, Observatory	28.75	730.2	28.96	735.6	39.1	3.9	80	ene.	.....	.....	7	.....	10 n	.....	.....	.....	.....	squally	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	28.88	733.5	29.05	737.9	48.9	9.4	60	sw.	.....	.....	6	.....	9	.....	.....	.....	.....	d clouds	The Staff.
Guernsey	28.93	734.8	29.22	742.2	46.0	7.8	85	w.	.....	.....	4	.....	6	.....	.....	blank	blank	gloomy	A. Collenette, F. M. S.
Kew, Observatory	29.03	737.3	29.06	738.1	49.4	9.7	56	sw.	30	13.4	.....	.....	9	.....	.....	.....	.....	threatening	The Staff.
Leicester, Museum	28.65	727.7	28.90	734.0	45.2	7.3	84	sw.	.....	.....	1	.....	10	.....	.....	.....	.....	overcast	J. C. Smith.
Malta, Mediterranean	30.04	763.0	30.11	764.8	66.8	19.3	61	sw.	.....	.....	2	.....	2	.....	.....	.....	.....	blue sky	I. H. Whysall.
Nassau, Bahamas	30.08	764.0	30.12	765.0	75.0	23.9	85	sw.	.....	.....	3	.....	4	.....	.....	.....	.....	d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	28.39	721.1	28.90	734.0	45.3	7.4	80	ssw.	.....	.....	4	.....	9	.....	.....	.....	.....	squally	John Mac Email.
Oxford, Radcliffe Obs'y	28.78	731.0	29.01	736.8	49.0	9.4	61	ssw.	.....	.....	7	.....	5	.....	.....	.....	.....	squally	The Staff.
Plymouth	29.00	736.6	29.08	738.6	48.6	9.2	77	wsw.	.....	.....	5	.....	2	.....	.....	.....	.....	squally	John Merrifield.
Sandwick Manse, Orkneys	.....	.....	29.31	744.5	35	1.7	79	e.	45	20.1	.....	.....	10	.....	.....	blank	blank	misty	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.82	757.4	29.89	759.2	48.2	9.0	92	wsw.	.....	.....	2	.....	10	.....	.....	.....	.....	showery	W. H. Lyne.
Sheffield	28.57	725.7	28.84	732.5	45.9	7.7	84	w.	.....	.....	3	.....	10	.....	.....	0.25	6.3	overcast	W. F. Cooper.
Silloth Rectory	28.83	732.3	28.86	733 0	41.9	5.5	92	e.	.....	.....	6	.....	10	.....	.....	0.130	3.3	raining	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	28.81	731.8	42.8	6.0	93	ne.	6	2.7	.....	.....	10	.....	.....	.....	.....	raining	R. S. J. Perry.
Stratfield Turgiss	28.85	732.8	29.06	738.1	49.2	9.6	63	sw.	.....	.....	2–4	.....	8	.....	.....	.....	.....	showery	Rev. C. H. Griffiths, F. M. S.
Truro, Royal Institution	29.13	739.9	29.18	741.2	52	11.1	79	w.	.....	.....	7	.....	6	.....	.....	.....	.....	d. clouds	W. Newcombe.
Valencia, Observatory	29.03	737.3	29.05	737.9	46.2	7.9	83	w.	41	18.3	.....	.....	8	.....	.....	.....	.....	squally	The Met'g'l Office.
Canadian.																			
Bathurst, N. B	.....	.....	.....	.....	25.0	— 3.9	.....	sw.	4	1.8	.....	0	7 ks	.....	.....	0	0	fair	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.41	772.4	30.46	773.7	17	— 8.3	90	sw.	2	0.9	.....	2 c	5 s	calm	calm	0	0	fair	H. J. Cundall, C. E.
Chatham, N. B*	30.30	769.6	30.37	771.4	26	— 3.3	92	sw.	5	2.2	.....	5 c	0	calm	.....	0	0	fair	G. A. Blair.
Cornwall, Ontario	29.50	749.3	29.69	754.1	43.8	6.6	91	s.	.....	.....	1	.....	10 n	.....	.....	0.130	3.3	cloudy	James Smith, M. A.
Dalhousie, N. B	30.19	766.8	30.38	771.6	16.0	— 8.9	.....	calm	.....	.....	0	0	5 s	.....	.....	0	0	fair	H. A. Johnson.
Father Point, Quebec*	30.04	763.0	30.07	763.8	34	1.1	96	s.	25	11.2	.....	2 k	8 s	sw.	s.	0	0	threatening	J. McWilliams.
Fort Garry, Manitoba*	28.67	728.2	29.55	750.6	10	—12.2	96	s.	5	2.2	.....	0	0	.....	.....	0	0	clear	James Stewart.
Fredericton, N. B	30.33	770.4	30.40	772.1	14.1	— 9.9	100	calm	0	0	.....	.....	fg	.....	.....	0	0	foggy	Prof. Harrison.
Granton, Ontario	28.43	722.1	29.52	749.8	45.0	7.2	100	calm	0	0	.....	.....	10 n	.....	.....	0.50	12.7	raining	James Grant.
Halifax, N. S*	30.37	771.4	30.51	774.9	20	— 6.7	100	se.	2	0.9	.....	0	sk	.....	.....	0	0	fair	A. Allison.
Hamilton, Ontario	29.14	740.1	29.52	749.8	51.2	10.7	86	w.	.....	.....	2	.....	10 ks	.....	.....	0.65	16.5	cloudy	Geo. Dickson, B. A.
Kingston, Ontario*	29.35	745.5	29.69	754.1	43	6.1	93	s.	12	5.4	.....	.....	10 n	.....	.....	0.33	8.4	rainy	A. P. Knight, M. A.
Little Glace Bay, N. S	.....	.....	.....	.....	25.2	— 3.8	81	calm	.....	.....	0	0	0	.....	.....	0	0	clear	C. H. Rigby.
Montreal, Quebec*	29.63	752.6	29.84	757.9	38	3.3	85	s.	22	9.8	.....	.....	10 n	.....	.....	0.22	5.6	cloudy	C. H. McLeod, C. E.
Parry Sound, Ontario*	28.82	732.0	29.51	749.5	43.0	6.1	100	se.	16	7.2	.....	.....	10 n	.....	sw.	0.85	21.6	light rain	Rev. R. Mosley.
Peterboro, Ontario	28.89	733 8	29.64	752.8	43.7	6.5	92	se.	.....	.....	1	.....	10 n	.....	.....	0.08	2.0	raining	J. Dixon, B. A.
Port Dover, Ontario	28.85	732.8	29.55	750.6	44	6.7	92	s.	7	3.1	.....	.....	10 n	.....	.....	0.17	4.3	threatening	H. Morgan.
Port Stanley, Ontario	28.91	734.3	29.56	750.8	41	5.0	92	e.	16	7.2	.....	.....	10 n	.....	sw.	0.09	2.3	light rain	M. Payne.
Quebec, Quebec*	29.71	754.6	30.04	763 0	34	1.1	100	ne.	.....	.....	5	.....	10 n	.....	ne.	0.28	7.1	heavy rain	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.08	738.6	29.55	750.6	41	5.0	79	se.	5	2.2	.....	.....	10 s	.....	sw.	0.20	5.1	cloudy	W. H. McIntyre.
Saugeen, Ontario*	28.84	732.5	29.56	750.8	39	3.9	92	nw.	2	0.9	.....	.....	fg	.....	.....	0.40	10.2	foggy	
St. Andrews, N. B	30.32	770.1	30.37	771.4	33	0.6	88	s.	7	3.1	.....	o	hz	.....	.....	0	0	clear	
St. John, N. B	30.23	767.8	30.40	772.1	31.0	— 0.6	79	sw.	13	5.8	.....	0	0	.....	.....	0	0	clear	G. Murdock, C. E.
St. Pierre, N. F	.....	.....	30.39	771.9	23.0	— 5.0	.....	nw.	.....	.....	2	.....	.....	.....	.....	0	0	.....	N. F. Land, Com't.
Stratford, Ontario	28.27	718.0	29.54	750.3	45.0	7.2	92	sw.	8	3.6	.....	.....	10 s	.....	.....	0.407	10.3	raining	C. I. Macgregor, M. A.
Sydney, C. B*	30.44	773.2	30.51	774.9	13	—10.6	96	sw.	1	0.4	.....	0	0	.....	.....	0	0	clear	T. C. Hill, C. E.
Toronto, Ontario*	29.19	741.4	29.58	751.3	43	6.1	93	se.	3	1.3	.....	.....	10 ks	.....	w.	0.44	11.2	cloudy	Magnetic Observatory.
Windsor, N. S	30.35	770.9	30.45	773.4	17.5	— 8.1	92	sw.	1	0.4	.....	0	1 s	.....	.....	0	0	clear	Prof. W. R. Butler.
Woodstock, Ontario	28.43	722.1	29.47	748.5	49.7	9.8	83	se.	19	8.5	.....	2 c	8 s	.....	.....	0.41	10.4	cloudy	Prof. Wolverton
Yarmouth, N. S*	30.35	770.9	30.42	772.7	30	— 1.1	88	se.	6	2.7	.....	3 ck	3 s	w.	se.	0	0	fair	Lt. F. E. Wilmot, R. N.
Sub-series.																			
St. Johns, Newfoundland	29.97	761.2	30.24	768.1	22	— 5.6	.....	w.	1	0.4	.....	0	0	.....	.....	0.40	10.2	.....	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	29.98	761.5	30.01	762.2	70.0	21.1	83	w.	12.5	5.6	.....	0	9 k	.....	.....	0.070	1.8	hazy	John Duthie.
Cape Town, C. G. H. Obs'y	30.03	762.7	30.07	763.8	84.9	29.4	38	sse.	27	12.1	.....	0	0	.....	.....	0	0	.....	The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
CHINESE (*Sub-series*).																			
Hankow	30.40	772.1	30.69	779.5	35.6	2.0	90	ne.			3		1c			0.28	7.1		N. Titoushkin.
Zi-Ka-Wei, near Shanghai.	30.41	772.4	30.43	773.0	34.3	1.3	96	n.	5.6	2.5			1c n			0.244	6.2	rain & snow	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	29.59	751.6	29.64	752.8	29.8	— 1.2	80	ese.	35.8	16			10					snowing	Oversergent Fischer.
Fanöe	29.30	744.1	29.32	744.6	30.9	— 0.6	100	e.			7		10					snowing	Overlooerer Lauridsen.
Godthaab, Greenland	29.73	755.2	29.78	756.3	10.2	—12.1	89	calm			0		10						S. Kleinschmidt.
Stykkisholm, Iceland	29.25	742.9	29.29	744.0	31.5	— 0.3	89	se.			4		8						A. O. Thorlacius.
Thorshavn	29.43	747.4	29.46	748.3	41.0	5.0	64	ese.	21.3	9.5			7					raining	Overlooerer Bergh.
Vestervig	29.36	745.8	29.45	748.1	29.5	— 1.4	90	ene.			7		10						Looerer Oesterbol.
FRENCH.																			
Agen, Normal School	29.19	741.3	29.84	757.9	53.6	12	65	wnw.			3		kn		w.	0	0		M. Labroue, Director.
Alençon, Normal School	28.84	732.5	29.39	746.5	46.4	8	77	s.			3		n		n.	0.567	14.4		M. Nicot, Director.
Arras, Engineer School	29.01	736.9	29.27	743.4	49.8	9.9	72	sw.			9	*ck*	*o*	W.		*0.102*	2.6		M. *Klein, Commandant.*
Avignon, Normal School	29.78	756.4	29.86	758.4	62.2	16.8	38	nw.			3		2		W.	0	0	slightly cl'dy	M. Giraud, Director.
Bar-sur-Seine	29.04	737.6	29.61	752.0	41.9	5.5	97	w.			4		10		w.	0.461	11.7	raining	M. Saillard, Director.
Beauvais, Normal School	29.11	739.3	29.37	745.9	52.1	11.1	56	sw.			4		8		wsw.	0.532	13.5	very cloudy	M. Frère Eugène Mari.
Besançon, *Normal School*	28.71	729.1	29.59	751.5	50.0	10	86	ssw.			1		10 n		s.	0.098	2.5	raining	M. Gobin, Director.
Bordeaux, Observatory	29.50	749.4	29.77	756.1	52.9	11.6	57	w.			6		8		w.	0.091	2.3	very cloudy	M. Rayet, Director.
Bourges, Normal School	29.02	737.1	29.57	751.0	50.0	10	70	sw.			6	ck	o	sw.		0.295	7.5		M. Postel, Director.
Brest, Naval Observatory	29.15	740.4	29.39	746.6	51.8	11.0	75	w.			6		8		w.	0.795	20.2		M. de Kermaree, Dir.
Caen, Normal School	29.19	741.5	29.26	743.3	51.4	10.8	68	ssw.			3		5		ssw.	0.250	6.5	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.08	738.6	29.39	746.0	50.4	10.2	76	sw.			6		5	sw.	w.	0.386	9.8	cloudy	M. Jadot, Director.
Charleville, Normal School	28.90	734.0	29.40	746.8	48.6	9.2	80	ssw.			3		10			0.28	7.	raining	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.31	719.1	29.67	753.6	47.5	8.6	61	wsw.			8		2			0.295	7.5	¼ covered	M. Allnard, Director.
Cluny, Normal School	28.90	734.0	29.78	756.5	45.5	7.5	80	w.			2		5		w.	0	0		M. de Villemontée, Dir.
Commercy, Normal School.	28.68	728.5	29.55	750.6	49.5	9.7	54	wsw.			4	c	5 n	wsw.	wsw.	0.374	9.5	cloudy	Dr. Coulet, Director.
Gap, Normal School†	27.23	691.7	29.76	755.8	50.5	10.3	46	nw.			8	7 c	o	n.		0	0		M. Jeangirard, Director.
Gréasque, dn. Rhone	28.71	729.2	29.82	757.5	58.8	14.9	50	w.			2		3		w.	0	0		M. Kina, Director.
Grenoble, Normal School	28.98	736.2	29.74	755.5	56.1	13.4	44	wsw.			2		k	nw.	sw.	0	0		M. Ablard, Director.
Guéret, Normal School	28.08	713.2	29.67	753.7	44.4	6.9	71	sw.			4		10 n		sw.	0.264	6.7	hailing	M. Rivoire, Director.
Lamballe, Normal School	29.10	739.0	29.36	745.8	47.3	8.5	72	w.			6		8		w.	*0.16*	4.	*very cloudy*	M. *Ollitrault*, Director.
Lescar, Normal School	29.35	745.4	29.91	759.7	56.8	13.8	62	wnw.			2		2			0	0	slightly cl'dy.	M. Chauvin, Director.
Lorient, Naval Observatory	29.32	744.8	29.43	747.4	53.6	12.0	76	wsw.			9		8		w.	0.709	18.0	¾ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.68	728.5	29.73	755.2	51.1	10.6	44	w.			2	c	5 k	sw.	sw.	0.004	0.1	cloudy	M. André, Director.
Mans, *Normal School*	29.12	739.6	29.43	747.5	44.2	6.8	89	sw.			3		5		ssw.	0.59	15.	cloudy	M. Piboen, Director.
Marseille, Observatory	29.58	751.4	29.85	758.2	60.1	15.6	67	w.			1		7		wsw.	0	0		M. Stephan, Director.
Montlouis l'institnteur	24.61	625.2	29.46	748.2	41.0	5.0	54	sw.	16.8	7.5			9		w.	0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.67	753 7	29.80	757.0	59.0	15	58	w.			3		o			0	0	clear	M. Galzin, Director.
Nancy, Normal School	28.75	730.2	29.53	750.0	50.4	10.2	58	ssw.			3	o	8kn		sw.	0.177	4.5	very cloudy	M. Hasse, Director
Nantes, Observatory	29.36	745.8	29.53	750.0	51.6	10.9	68	sw.			3-4	o	8 kn			*0.965*	24.5	*rainy*	M. *Larocque, Director.*
Perpignan, Observatory	29.75	755.6	29.86	758.4	61.2	16.2	48	s.	7.4	3.3			10		w.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	20.98	533.0			20.8	— 6.2		sw.			1		10		sw.	0.189	4.8	snowy	Gen'l de Nansouty, Dir.
Privas, Normal School	28.72	729.5	29.78	756.5	53.6	12	52	sw.			1		5	sw.	sw.	0	0	cloudy	M. Tallieu.
Puy de Dôme Obs'y, Summit	24.70	627.3			28.8	— 1.8	100	wsw.			9		10			0.154	3.9	light snow	M. Allnard, Director.
Rochefort, Naval Obs'y	29.64	752.8	29.67	753.6	53.6	12.0	100	wsw.			6		8		wsw.	0.118	3.0	¾ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.26	743.1	29.55	750.6	48.9	9.4	62	wnw.			1		5		wnw.	0.71	18.	cloudy	M. Mouillot, Director.
Rodez, Normal School	27.69	703.4	29.87	758.7	42.8	6	73	nw.			1		5	w.	w.	0.08	2.	fair	M. Serger, Director.
Rouen, Normal School	29.27	743.5	29.32	744.7	52.2	11.2	56	sw.			3		8			0.602	15.3	very cloudy	M. Platrier, Director.
Saint Maur, Observatory	29.25	743.0	29.42	747.2	53.1	11.7	58	sw.			4		7		sw.	0.268	6.8		M. Renou, Director.
Toulouse, Observatory	29.21	741.9	29.93	760.2	46.0	7.8	79	wnw.			3		10		w.	0.071	1.8	stormy	M. Baillard, Director.
Versailles, Observatory	28.90	734.0	29.39	746.5	50.7	10.4	60	sw.			4					0.091	2.3		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.13	739.8	29.42	747.2	51.1	10.6	63	sw.			4		8	ssw.	sw.	0.394	10.0	sprinkling	M. Marié Davy, Director
GERMAN.																			
Bamberg	28.68	728.5	29.52	749.8	53.6	12.0	60	sw.			5	o	8 n		sw.	0.091	2.3	raining	Prof. Dr. Hoh.
Berlin	29.22	742.1	29.39	746.6	43.9	6.6	91	se.			1		10			0.051	1.3		Prof. Dr. Arndt.
Breslau	29.07	738.3	29.59	751.6	51.6	10.9	67	sse.			2		10			0.016	0.4		Royal University Obs'y.
Carlsruhe	29.09	738.9	29.52	749.8	54.7	12.6	53	sw.			7		1	sw.		*0.016*	0.4	raining	Albert Senz.
Cassel	28.62	727.0	29.34	745.1	50.0	10.0	59	s.			6		6	s.		0.181	4.6		Dr. H. Möhl.
Frankfort on the Main	29.09	738.9	29.45	748.1	51.6	10.9	65	wsw.			2		5			0.154	3.9		Physical Society.
Friedrichshafen	28.19	716.1	29.62	752.3	50.7	10.4	67	w.			6		9	w.		0	0		Wilhelm, Chief Tel.
Hamburg	29.18	741.2	29.28	743.6	36.7	2.6	100	sse.			6		10			0.150	3.8	raining	E. Preller.
Kiel	29.32	744.8	29.34	745.2	34.3	1.3	86	e.			4		10			0.051	1.3		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.00	736.5	29.41	747.1	52.3	11.3	67	sw.			4		8	wsw.		0.161	4.1		H. Leppig, Asst.
Magdeburg	29.13	740.0	29.32	744.7	49.3	9.6	82	s.			2		10 ks		w.	0.102	2.6		Dr. Assmann.
Memel	29.78	756.5	29.83	757.7	31.1	— 0.5	83	n.			1		10 ks						Issermann.
Munich	27.80	706.1	29.64	752.8	51.6	10.9	50,	nw.			3		9	sw.		*0.020*	0.5		*Central Station.*
Neufahrwasser	29.73	755.1	29.74	755.5	34.9	1.6	63	ese.			2		10			0.071	1.8		A. Lothes.
Neustadt, Palatinate	28.94	735.0	29.45	748.1	52.9	11.6	53	wsw.			6		3	w.		0.433	11.0		Dicknether.
Stuttgart	28.61	726.7	29.49	749.1	52.7	11.5	50	w.			2		8	w.		0.024	0.6		Prof. Dr. Schoder.
Wustrow	29.43	747.4	29.45	748.0	32.9	0.5	94	e.			5		10 s			0.102	2.6		Profs. Brandes & Reimer.
GREEK.																			
Athens	29.61	752.1	30.00	762.0	64.6	18.1		sw.			2.0		o			o	o	clear	Schmidt & Wourlisch.
INDIAN.																			
Bellary	28.43	722.1			93.3	34.1	11	se.	4.1	1.8			o			o	o	blue sky	
Kurrachee	29.92	760.0	29.97	761.3	74.2	23.4	72	wsw.	30	13.4			o			o	o	misty	
Deesa	29.43	747.5	29.91	759.6	80.5	26.9	40	sw.	10.7	4.8			8		nw.	o	o	d. clouds	
Bombay	29.97	761.2	30.01	762.1	78.1	25.6	59	nw.	*13*	5.8			o			o	o	blue sky	
Poona, Yarrowda	28.07	713.1	29.92	759.8	84.2	29.0	21	w.	21	9.4			o			o	o	blue sky	
Belgaum	27.41	696.1	29.93	700.1	80.9	27.2	31	sw.	7	3.1			o			o	o	misty	
Lahore	29.15	740.3	29.90	759.6	72.8	22.7	31	w.	2.0	0.9			10					drizzling	
Roorkee	28.99	736.4	29.90	759.5	76.6	24.8	49	se.	3.5	1.6			8			o	o		
Agra	29.28	743.8	29.84	758.0	85.2	29.6	24	w.	2.5	1.1			o			o	o		
Nagpur	28.85	732.7	29.87	758.7	91.7	33.2	18	sw.	3.6	1.6			o			o	o	blue sky	
Jubbulpore	28.55	725.2	29.90	759.3	86.0	30.0	22	nw.	3.7	1.6			o			o	o	blue sky	
Lucknow	29.52	749.7	29.89	759.2	86.6	30.3	25	ese.	2.7	1.2			o			o	o	blue sky	
Allahabad	29.56	750.9	29.88	758.8	84.7	29.3	36	calm	2.5	1.1			o			o	o	blue sky	
Patna	29.76	756.0	29.95	760.8	80.4	26.9	57	e.	5.1	2.3			o			o	o	blue sky	
Hazaribagh	27.85	707.5	29.86	758.5	79.8	26.6	32	n.	7.6	3.4			o			o	o	blue sky	
Cuttack	29.86	758.5	29.94	760.5	84.2	29.0	49	ssw.	3.4	1.5			o			o	o	blue sky	
Calcutta, Alipore	29.91	759.7	29.93	760.2	81.3	27.4	61	s.	4.0	1.8			o			o	o	blue sky	
Dhubri	29.87	758.6	29.99	761.8	70.8	21.6	76	ene.	11.7	5.2			o			0.01	0.3	blue sky	
Chittagong	29.92	760.0	30.01	762.3	74.1	23.4	46	w.	2.1	0.9			o			o	o	blue sky	
Sibsagar	29.72	755.0	30.08	763.9	64.9	18.3	84	ne.	3.0	1.3			10	w.	w.	0.20	5.1	d. clouds	
Jeypore	28.41	721.6	29.85	758.1	82.7	28.2	21	ssw.	4.2	1.9			o			o	o	blue sky	
Zanzibar, Africa	29.82	757.4			86.6	30.3	60	ne.	10.3	4.6			3			o	o	d. clouds	
Trichinopoly	29.69	754.1			91.3	32.9	27	e.	2	0.9			o			o	o	blue sky	
ITALIAN.																			
Udine	29.39	746.6	29.81	757.1	46.9	8.3	85	ne.	0.7	0.3			10			0.008	0.2		Prof. Giovanni Clodig.
Milan	29.23	742.5	29.76	755.8	47.7	8.7	90	se.	6.9	3.1			10	se.		0.335	8.5		Prof. Schiaparelli.
Padua	29.68	753.9	29.79	756.7	46.4	8.0	97	nne.	6.9	3.1			10			0.079	2.0		Prof. Dott. Lorenzoni.
Moncalieri	28.83	732.3	29.75	755.7	47.3	8.5	92	e.	5.6	2.5			10			0.039	1.0		Prof. P. F. Denza.
Genoa	29.50	749.2	29.69	754.1	53.6	12.0	70	n.	5.6	2.5			10	se.		0.516	13.1		Prof. G. M. Garibaldi.
Mondovi	27.80	706.2	29.74	755.5	44.8	7.1	88	nw.			2		9			0.024	0.6		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	OBSERVERS.
ITALIAN.—Continued.																			
Pesaro	29.67	753.7	29.72	754.9	60.4	15.8	59	sw.	11.2	5.0			10			0	0		Prof. Luigi Guidi.
Florence	29.49	749.0	29.74	755.5	55.8	13.2	73	sw.			6		10			0.016	0.4		Prof. Costantino Pitter.
Leghorn	29.61	752.1	29.70	754.3	58.6	14.8	79	s.	4.3	1.9			10	wsw.		0.008	0.2		Prof. P. Monte.
Rome	29.74	755.3	29.91	759.7	59.4	15.2	66	s.	18.6	8.3			10			0	0		Prof. P. S. Ferrari.
Lecce	29.75	755.6	30.00	762.1	61.5	16.4	54	w.	13.6	6.1			3	w.		0	0		Prof. C. de Giorgi.
Cosenza	29.16	740.6	30.06	763.5	58.3	14.6	76	ese.	3.1	1.4			9	s.		0	0		Prof. D. Conti.
Cagliari	29.74	755.3	29.93	760.2	64.4	18.0	71	wnw.			4		5	w.		0	0		Prof. A. Pacinotti.
Palermo	29.78	756.5	30.04	762.9	67.6	19.8	56	sw.	15.4	6.9			7	wnw.		0	0		Prof. G. Ciacciatore.
Syracuse	29.96	760.9	30.00	762.0	67.3	19.6	55	sw.	5.6	2.5			2	sw.		0	0		Prof. Vincenzo Guiliano.
Sub-series.																			
Naples, S. R	29.45	748.1	29.98	761.4	57.2	14.0	86	s.	9.4	4.2			10	sw.		0.004	0.1		Prof. T. Brioschi.
Stelvio	21.79	553.5			26.2	— 3.2	92	sw.			4		10			0.047	1.2	covered	Prof. P. F. Denza.
Valdobbia	21.63	554.4			25.2	— 3.8	73	n.			6		7			0	0	misty	Prof. P. F. Denza.
MAURITIUS.																			
Mauritius Observatory	29.67	753.6	29.86	758.4	81.5	27.5	75	e.	16.0	7.2		2 c;cs	5 ks;n	ne.	e.	0.22	5.6	fair	Oliver & Figon.
JAPANESE.																			
Aomori	30.23	767.8	30.27	768.8	20.1	— 6.6	90	sse.	2.8	1.3		0	8s		w.	0.063	1.6	cloudy	K. Ogawa.
Hakodate	30.28	769.1	30.29	769.3	21.5	— 5.8	48	calm	0	0			2		sse.	0	0	clear	
Hiroshima, I. M. Obs'y	30.27	768.8	30.28	769.1	38.0	3.3	91	nne.	5.7	2.5		10ck;cs	10 n			0.123	3.1	light rain	K. Sasaki.
Kanazawa	30.25	768.3	30.36	771.1	34.1	1.2	85	nne.	1.7	0.8			0	s.		0	0	overcast	S. Endo.
Kioto	30.13	765.3	30.32	770.1	37.8	3 2	64	nw.	4.5	2.0			10 s			0	0	cloudy	M. Tojima.
Kochi	30.21	767.3	30.23	767.8	43.6	6.4	74	nw.	8.2	3.7			10 s			0.080	2.0	cloudy	
Nagasaki, I. M. Obs'y	30.00	762.0	30.21	767.3	47.5	8.6	80	nne.	2.8	1.3			10 s			0	0	overcast	S. Takehayashi.
Niigata	30.30	769.6	30.34	770.6	32.3	0.2	85	sw.	7.7	3.4		7ck;cs	0	w.		0.485	12.3	cloudy	
Nobiru	30.29	769.3	30.30	769.6	32.1	0.1	81	n.	7.4	3.3		ck	9 s			0	0	cloudy	H. Midzushina.
Sapporo					18.2	— 7.7	82	s.	4.2	1.9			3			0.120	3.0	clear	
Tokei Obs'y, Yeddo	30.23	767.8	30.30	769.6	36.3	2.4	74	nne.	4.9	2.2			10 n			0.021	0.5	light snow	The Staff.
Wakayama	30.25	768.3	30.30	769.6	40.7	4.8	62	nne.	5.9	2.6			10 s			0	0	cloudy	Y. Kuwamuea.
MEXICAN.																			
Guanajuato	23.70	602.0	29.92	760.0	53.6	12.0	71	se.				0	0			0	0	clear	Vicente Fernandez.
Leon	24.37	619.0	30.10	764.4	55.0	12.8	73	nw.			2	0	1			0	0	foggy	M. M. Leal.
Mazatlan	29.65	753.2	29.92	759.8	60.5	15.8	92	wnw.				0	0			0	0	clear	F. Quijano, U. E.
Morelia	24.24	615.6	30.40	772.1	55.0	12.8	78	s.			2	1	1	s.	s.	0	0	clear	M. Tena, M. D.
Mexico, Central Obs'y	23.05	585.6	30.12	765.0	52.7	11.5	60	sw.	0.4	0.2		0	0			0	0	fine	The Staff.
Pabellon, Aguascallientes	23.99	609.3	30.10	764.5	49.8	9.9	50	calm	0	0						0	0		M. V. de Leon, M. E.
Puebla, Catholic Institute	23.39	594.2	30.34	770.7	51.3	10.7	75	calm	0	0		0	5		sc.	0	0	½ cloudy	Prof. P. Spina.
San Luis Potosi	24.15	613.5	30.14	765.6	51.9	11.1	56	sse.	0.9	0.4		0	0			0	0	clear	G. Barroeta, M. D.
Vera Cruz																			
Zacatecas	22.49	571.3	29.94	760.5	50.0	10.0	28	n.	3.6	1.6		0	0			0	0	clear	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.19	741.3	29.19	741.3	48.2	9.0		sw.			6					0.220	5.6		
Groningen	29.08	738.6	29.13	740.0	46.0	7.8		ssw.			5					0.303	7.7		
Helder	29.03	737.3	29.03	737.3	44.6	7.0		ssw.			6					0.169	4.3		
Hellevoetsluis	29.13	740.0	29.13	740.0	47.8	8.8	84	sw.			4					0.232	5.9		
Utrecht	29.13	739.8	29.18	741.1	49.1	9.5	81	ssw.			7		8			0.228	5.8	very cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.53	750.0	29.59	751.6	30.2	— 1.0	35	w.	4	2			0			0	0		
Brono	29.74	755.3	29.78	756.3	26.6	— 3.0	76	calm	0	0			7			0	0		
Christiania	29.66	753.3	29.82	757.3	19.0	— 7.2	56	ese.	4	2			0			0	0		
Gjæsvær	29.68	753.9	29.71	754.5	25.0	— 3.9		calm			0		10					snowing	
Lodingen	29.71	754.6	29.76	755.8	21.7	— 5.7	90	calm			0		1			0	0		
PORTUGUESE.																			
Angra, Azores					56.3	13.5	69	wnw.	5.1	2.2			2			0	0		Dr. J. A. Sampaio.
Campo Major	29.22	742.1	30.24	768.1	51.8	11.0	65	w.	8.7	3.9			9			0.039	1.0		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.37	771.3	30.45	773.5	66.9	19.3	62	sw.	1.3	0.6			5			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.95	760.6	30.31	769.9	56.1	13.4	61	wsw.	15.0	6.7			7			0.118	3.0		The Staff.
Ponta Delgada, Azores	30.47	773.8	30.54	775.6	61.2	16.2	58	nnw.	1.8	0.8			4			0	0		
Saint Paul de Loando	29.70	754.3	29.89	759.3	86.2	30.1	77	w.	1.3	0.6			3	sso.		0	0		
Serra da Estrella	25.27	641.8	30.19	766.9	31.1	— 0.5	100	wnw.			6		10			blank	blank		
RUSSIAN.																			
Akmolinski	29.35	745.4	30.52	775.3	15.8	— 9.0	91	wsw.	11	5			10 n			0	0		Major K. Lasarew.
Archangel	29.54	750.2	29.56	750.7	33.6	0.9	94	se.	4	2			10			0.177	4.5		Capt. Sselliwerstow.
Astrakhan	30.41	772.3	30.32	770.2	30.9	— 0.6	92	ese.	13	6		10 cp	0			blank	blank	heavy cl'ds.	Capt. Wisganow.
Barnaul	30.04	763.1	30.59	777.0	14.5	— 9.7	73	sw.	4	2			10			0.031	0.8		Meteorological Obs'y.
Dorpat	29.48	748.8	29.73	755.3	25.9	— 3.4	63	wsw.	9	4			10 n			0	0		Observatory.
Ekaterinburg	29.52	749.7	30.54	775.7	29.3	— 1.5	41	wsw.	13	6		1 cs	0			0	0	light clouds	Meteorological Obs'y.
Kasan	30.09	764.3	30.39	771.8	13.5	—10.3	69	sse.	18	8			0			0	0		Observatory.
Kertch	29.87	758.8	29.89	759.3	43.3	6.3	94	s.	9	4			10 n			0	0		Lagorio & Sastyrex.
Kieff	29.08	738.6	29.72	754.9	43.7	6.5	88	wsw.	4	2		cs	10ks;n			0.035	0.9		Observatory.
Lugan	29.84	757.8	30.04	763.1	37.9	3.3	78	e.	9	4			10			0	0		Meteorological Obs'y.
Moscow	29.25	742.9	29.74	755.4	33.1	0.6	94	s.	7.8	3.5			10 s			0.063	1.6	light snow	Meteorological Obs'y.
Nikolaiev	29.74	755.4	29.81	757.2	44.2	6.8	98	s.	9	4			10 n			0.087	2.2		Capt. Kurdiakow.
Nikolaievsk, on the Amoor	29.80	756.8	29.88	759 0	19.0	— 7.2	65	nw.	11	5			0			0	0		Lieut. Iwanow.
Pekin, China	30.45	773.5	30.60	777.1	30.2	— 1.0	80	calm	0	0		0	0			0	0		Physical Observatory.
St. Petersburg	29.64	752.9	29.66	753.3	24.8	— 4.0	52	wsw.	13	6			9 ks;n					light snow	Central Physical Obs'y.
Tashkend, Laboratory	29.00	736.7	30.73	780.6	19.4	— 7.0	73	nne.	2	1			1			0	0		Telch, A. M.
Tiflis	28.80	731.4	30.23	767.9	52.0	11.1	31	s.	2	1		7 c	0			0	0		Physical Observatory.
Vladivostok	30.39	771.9	30.46	773.6	17.8	— 7.9	60	calm	0	0		0	0			0	0		
Warsaw	29.31	744.4	29.74	755.4	40.1	4.5	62	ese.	11	5			10 ks						Astronomical Obs'y.
Wilna	29.39	746.6	29.83	757.7	30.9	— 0.6	58	sw.	2	1			10			0	0	heavy cl'ds.	Berg, Assistant.
Yeniseisk	30.18	766.5	30.49	774.4	22.5	— 5.3	85	w.	9	4			10			0.008	0.2	snowing	M. O. Marks.
SWISS.																			
Geneva	28.28	718.4	29.71	754.7	53.2	11.8	45	sw.			4					0.154	3.9	covered	The Observatory.
SPANISH.																			
Barcelona, Met. Obs'y	29.83	757.6	29.93	760.3	60.8	16.	38	w.	11.0	4.9			2 k			0	0		Antonio Rave, Director.
Bilbao, Met. Obs'y	29.90	759.4	29.96	760.9	60 8	16.0	45	nw.	8.1	3.6		3	2	w.		0	0	cloudy	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.06	687.2	30.08	764.1	44.2	6.8	47	w.	22.8	10.2		0	8			0.091	2.3	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27.86	707.7	30.15	765.7	46.4	8.0	67	nw.	21.0	9.4			9			0.110	2.8	almost cov'd	The Staff.
Murcia, Met. Obs'y	29.95	760.7	30.10	764.4	68.9	20.5	45	nw.	4.5	2.0		1	2	ese.		0	0	clouds	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.11	739.3	30.02	762.6	47.1	8.4	80	nw.	20.6	9.2			10			0.417	10.6	raining	R. Gil Vallanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I	29.94	760.5	30.00	762.2	72.0	22.2	87	sse.	5.4	2.4		0	0			0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.97	761.3	30.03	762.8	76.9	24.9	65	e.	6.6	3.0		1 c	1 ks		ene.	0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.22	767.6	30.32	770.2	61.3	16.3	72	wnw.	4.5	2.0		2	4	nw.	w.	0.167	4.2		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	30.00	762.0	30.09	764.3	74.8	23.8	94	calm	0	0		8 k	6 kn	e.	e.	0.268	6.8	cloudy	Manuel Maeu.
Tuguegarao, Philippine Id's	29.89	759.2	30.02	762.5	78.1	25.6	68	se.	3.3	1.5			10 ks		sse.	0	0	covered	José L. Yrastorza.
SWEDISH																			
Haparanda	29.45	748.1	29.49	749.1	10.8	—11.8	93	ne.			4		10			0.224	5.7	snowing	
Umea	29.46	748.3	29.51	749.6	13.3	—10.4	100	n.			4		10			0.094	2.4		
Hernosand	29.53	750.1	29.58	751.4	25.3	— 3.7	45	n.			7		5			0.004	0.1		
Stockholm	29.57	751.0	29.74	755.5	17.2	— 8.2	59	w.			2		0			0.004	0.1		
Wisby	29.70	754.4	29.76	755.9	21.9	— 5.6	70	nw.			4					0.008	0.2		
Sub-series.																			
Upsala	29.61	752.2	29.70	754.4	22.6	— 5.2	58	w.	6.9	3.1			0			0	0		S. G. Fineman.

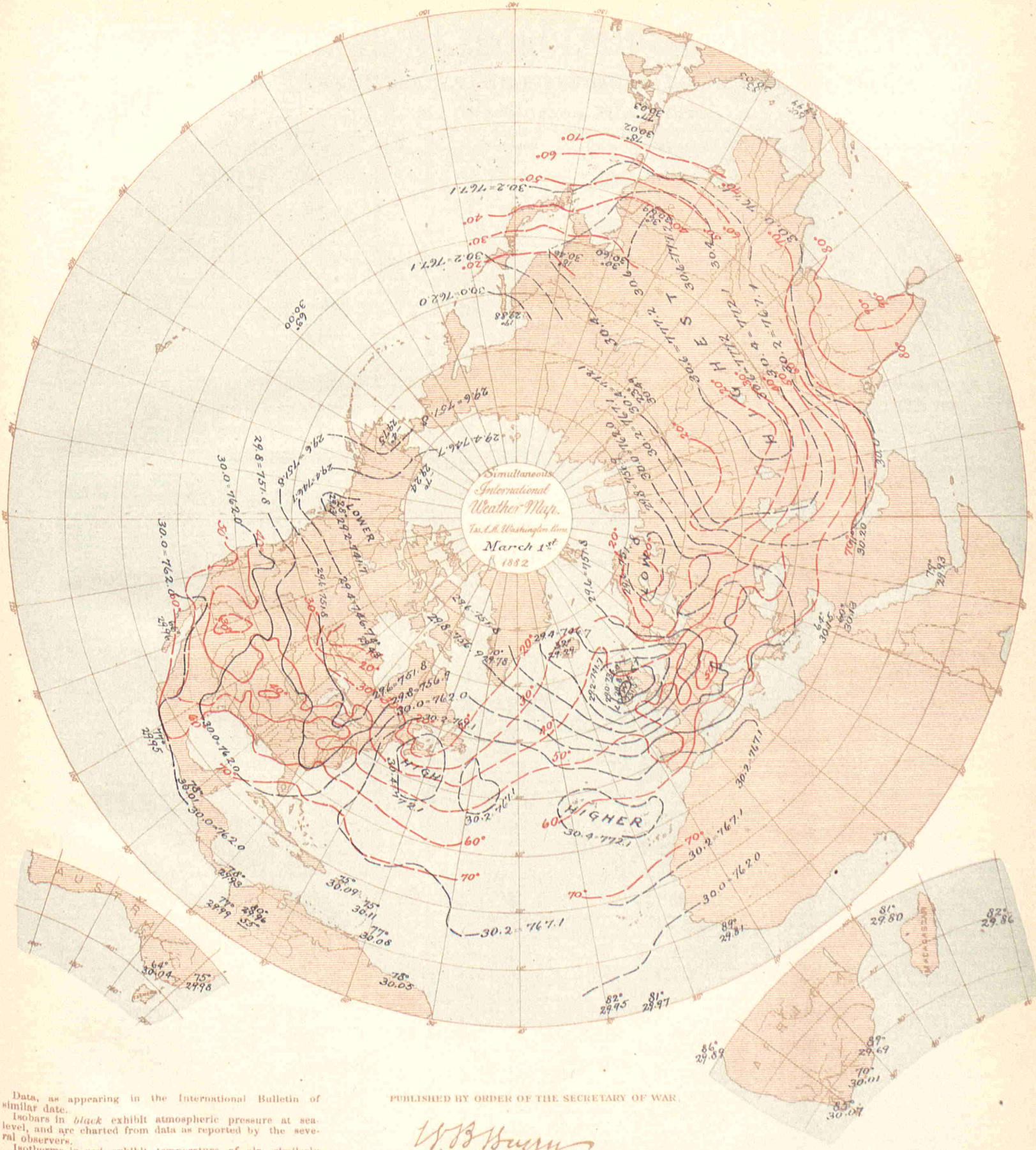
STATIONS.	BAROMETER. Corrected for instrumental error and for temperature.		BAROMETER. Reduced to sea-level.		Temperature of the air.		Relative humidity.	WIND. Direction.	WIND. Velocity.		WIND. Force.	CLOUDS. Amount and kind. Upper.	CLOUDS. Amount and kind. Lower.	CLOUDS. Direction. Upper.	CLOUDS. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
TURKISH.																			
Constantinople	.....	.....	29.93	760.3	54.1	12.3	65	sw.	11	5.0	.....	.....	10	.....	sw.	0	0	.....	The Observatory
Valona	.....	.....	30.07	763.7	61.0	16.1	.....	sw.	.....	.....	1	.....	2	.....	.....	0	0	slightly cl'dy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	30.09	764.3	62.4	16.9	63	ne.	.....	.....	1	10 cs	0	sw.	.....	0	0	.....	Prof. C. V. A. van Dyck
UNITED STATES.																			
Albany, New York	29.89	759.2	29.98	761.5	43.5	6.4	74	sw.	3	1.3	.....	.....	10 n	.....	.....	0.15	3.8	light rain	J. O. Barnes.
Alpena, Michigan	28.93	734.8	29.63	752.6	40	4.4	89	w	6	2.7	.....	8 k	2 s	sw.	.....	1.22	31.0	cloudy	Jas. J. Fitzgerald.
Atlanta, Georgia	28.62	726.9	29.83	757.7	53.5	11.9	90	w.	13	5.8	.....	3 k	7 s	w.	calm	2.40	61.0	cloudy	H. Hall.
Atlantic City, New Jersey	29.89	759.2	29.90	759.4	47.2	8.4	100	se.	18	8.0	.....	.....	10 n	.....	.....	0.25	6.3	light rain	Jas. M. Watson.
Augusta, Georgia	29.57	751.1	29.77	756.1	59.3	15.2	81	s.	5	2.2	.....	0	5 s	.....	s.	1.00	25.4	clearing	John Healy.
Baltimore, Maryland	29.76	755.9	29.81	757.2	54	12.2	100	s.	16	7.2	.....	.....	10 n	.....	.....	0.17	4.3	light rain	Robert Seyboth.
Barnegat, New Jersey	29.90	759.4	29.92	760.0	46.8	8.2	93	s.	27	12.1	.....	.....	10 n	.....	.....	0.35	8.9	light rain	Chas. F. Merritt.
Bismarck, Dakota	27.69	703.3	29.61	752.1	40	4.4	67	nw.	2	0.9	.....	0	1 s	.....	.....	inap.	inap.	clear	Cyrus Cramer.
Boise City, Idaho	27.06	687.3	29.98	761.5	30	— 1.1	81	nw.	2	0.9	.....	0	0	.....	.....	0	0	clear	B. E. Light.
Boston, Massachusetts	30.02	762.5	30.18	766.6	39.0	3.9	100	e.	3	1.3	.....	.....	10n;fog	.....	.....	0.07	1.8	light rain	O. B. Cole.
Brownsville, Texas	29.93	760.2	29.98	761.5	62	16.7	84	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. C. Galloway.
Buffalo, New York	28.86	733.0	29.65	753.1	51.6	10.9	82	se.	8	3.6	.....	.....	10 n	.....	se.	0.07	1.8	light rain	Wm Finn.
Burlington, Vermont	29.60	751.8	29.91	759.7	39.3	4.1	81	s.	10	4.5	.....	.....	10 n	.....	s.	inap.	inap.	light rain	G. C. Schaeffer.
Cairo, Illinois	29.53	750.0	29.95	760.7	46.8	8.2	85	w.	4	1.8	.....	0	0	.....	.....	0.93	23.6	clear	W. H. Ray.
Campo, California	27.44	697.0	30.05	763.3	31.3	— 0.4	88	e.	4	1.8	.....	0	0	.....	.....	0	0	clear	W. H. Clendenon.
Camp Thomas, Arizona	27.26	692.4	30.04	763.0	36.5	2.5	94	calm	.....	.....	0	0	0	.....	.....	0	0	clear	J. T. Fitzgerald.
Cape Henry, Virginia	29.85	758.2	29.87	758.7	55	12.8	93	se.	20	8.9	.....	.....	10 n	.....	.....	0.40	10.2	light rain	J. E. Lanouette.
Cape May, New Jersey	29.86	758.4	29.89	759.2	50	10.0	93	se.	20	8.9	.....	.....	10 n	.....	se.	0.40	10.2	heavy rain	W. Bolten.
Castroville, Texas	29.16	740.7	29.99	761.7	50	10.0	64	nw.	3	1.3	.....	0	0	.....	.....	0	0	clear	T. Jones.
Cedar Keys, Florida	29.90	759.4	29.92	760.0	63	17.2	93	w.	9	4.0	.....	2 c	3 ks	.....	w.	2.38	60.5	fair	F. W. Mixer.
Champaign, Illinois	28.98	736.1	29.84	757.9	39.0	3.9	89	sw.	6	2.7	.....	0	5 s	.....	sw.	1.41	35.8	fair	L. A. Welsh.
Charleston, S. Carolina	29.74	755.4	29.80	756.9	58	14.4	93	sw.	12	5.4	.....	.....	10 n	.....	calm	0.97	24.6	heavy rain	J. H. Smith.
Charlotte, N. Carolina	28.83	732.3	29.71	754.6	55.0	12.8	100	w.	5	2.2	.....	.....	10 n	.....	s.	0.48	12.2	light rain	D. O. Donoghue.
Chattanooga, Tennessee	28.99	736.3	29.84	757.9	54.0	12.2	93	nw.	8	3.6	.....	.....	10 ks	.....	n.	1.44	36.6	cloudy	B. L. Goulding.
Cheyenne, Wyoming	23.85	605.8	30.03	762.7	39.3	4.1	52	w.	2	0.9	.....	0	3 s	.....	.....	0	0	clear	E. McGovern.
Chicago, Illinois	29.04	737.6	29.78	756.4	38.8	3.8	93	w.	6	2.7	.....	0	0	.....	.....	1.29	32.8	clear	J. Mitchell.
Chincoteague, Virginia	29.95	760.7	29.97	761.2	52	11.1	100	s.	13	5.8	.....	.....	10 n	.....	.....	0.62	15.7	heavy rain	F. C. Pratz.
Cincinnati, Ohio	29.06	738.1	29.75	755.6	52.1	11.2	80	nw.	12	5.4	.....	0	5 s	.....	w.	0.71	18.0	fair	R. B. Watkins.
Cleveland, Ohio	28.82	732.0	29.60	751.8	54.6	12.6	72	s.	10	4.5	.....	.....	10 s	.....	s.	0.05	1.3	cloudy	J. B. Newlin.
Coleman City, Texas	28.14	714.7	30.00	762.0	46	7.8	77	s.	6	2.7	.....	0	0	.....	.....	0	0	clear	L. Dorman.
Columbus, Ohio	28.72	729.5	29.61	752.1	50	10.0	86	w.	10	4.5	.....	.....	10 s	.....	.....	0.28	7.1	cloudy	D. Cuthbertson.
Concho, Texas	28.01	711.4	29.98	761.5	45	7.2	93	sw.	11	4.9	.....	0	0	.....	.....	0	0	clear	W. W. McConihe.
Davenport, Iowa	29.08	738.6	29.77	756.1	42	5.6	65	w.	5	2.2	.....	3 cs	0	w.	.....	0.16	4.1	clear	R. R. Martin.
Dayton, Washington T'y	28.18	715.8	29.99	761.7	32.4	0.2	83	sw.	8	3.6	.....	0	0	.....	.....	1.11	28.2	clear	H. Clifford.
Deadwood, Dakota	25.06	636.5	29.90	759.4	36.5	2.5	82	w.	1	0.4	.....	0	0	.....	.....	0	0	clear	G. W. Scott.
Decatur, Texas	.....	.....	.....	.....	57	13.9	57	nw.	10	4.5	.....	0	0	.....	.....	0	0	clear	D. J. Carr.
Delaware Breakwater, Del.	29.87	758.7	29.89	759.2	51	10.6	100	s.	28	12.5	.....	.....	10n;fog	.....	s.	0.53	13.5	light rain	A. Schneider.
Denison, Texas	29.12	739.6	29.95	760.7	53.2	11.8	66	sw.	6	2.7	.....	0	0	.....	.....	inap.	inap.	clear	J. McGlone.
Denver, Colorado	24.55	623.6	29.99	761.7	51.0	10.6	30	w.	16	7.2	.....	0	0	.....	.....	0	0	clear	F. M. Neal.
Des Moines, Iowa	28.79	731.3	29.75	755.6	45	7.2	60	w.	8	3.6	.....	0	3 s	.....	w.	0.01	0.3	clear	F. W. Conrad.
Detroit, Michigan	28.92	734.6	29.67	753.6	49.0	9.4	86	nw.	10	4.5	.....	.....	10 s	.....	n.	0.47	11.9	cloudy	C. F. R. Wappenhans.
Dodge City, Kansas	27.24	691.9	29.97	761.2	46.3	7.9	38	sw.	7	3.1	.....	0	0	.....	.....	0	0	clear	E. A. Thomas.
Dubuque, Iowa	28.98	736.1	29.73	755.1	35	1.7	79	w.	1	0.4	.....	2 k	fg.	nw.	calm	inap.	inap.	fair	J. Harvey Smith.
Duluth, Minnesota	28.88	733.5	29.62	752.3	36	2.2	61	w.	7	3.1	.....	0	8 s	.....	w.	0.01	0.3	cloudy	N. B. Conger.
Eagle Pass, Texas	29.20	741.7	30.02	762.5	47.0	8.3	77	nw.	1	0.4	.....	0	0	.....	.....	0	0	clear	F. Belford.
Eagle Rock, Idaho	25.10	637.5	29.96	761.0	38	3.3	66	nw.	28	12.5	.....	.....	10 s	.....	.....	0.02	0.5	cloudy	J. M. Clifford.
Eastport, Maine	30.32	770.1	30.39	771.9	33.5	0.8	78	s.	11	4.9	.....	4 c;cs	0	w.	.....	0	0	fair	J. H. Melton.
El Paso, Texas	26.24	666.5	30.04	763.0	43	6.1	60	w.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. F. Marshall.
Erie, Pennsylvania	28.83	732.3	29.60	751.8	54	12.2	80	s.	18	8.0	.....	.....	10 s	.....	s.	0.02	0.5	cloudy	R. H. Paxton.
Escanaba, Michigan	28.92	734.6	29.63	752.6	34	1.1	78	sw.	5	2.2	.....	5 c	2 s	w.	sw.	0.27	6.9	fair	C. Dill.
Florence, Arizona	28.50	723.9	30.07	763.8	41.6	5.3	80	nw.	1	0.4	.....	0	0	.....	.....	0	0	clear	R. R. Herman.
Fort Apache, Arizona	25.06	636.5	30.08	764.0	26	— 3.3	70	ne.	4	1.8	.....	0	0	.....	.....	0	0	clear	W. O. Barnes.
Fort Assinnaboine, Montana	26.66	677.2	29.67	753.6	34	1.1	65	sw.	10	4.5	.....	0	1 s	.....	sw.	0.08	2.0	clear	B. O. Lenoir.
Fort Bennett, Dakota	28.08	713.2	29.78	756.4	28	— 2.2	77	nw.	1	0.4	.....	0	0	.....	.....	0	0	clear	T. Gibson.
Fort Benton, Montana	26.70	678.2	29.68	753.9	33	0.6	71	sw.	10	4.5	.....	0	4 ks	.....	calm	0	0	fair	S. Wheaton.
Fort Buford, Dakota	27.54	699.5	29.68	753.9	32	0.0	71	calm	0	0	.....	.....	10 s	.....	calm	0	0	cloudy	A. H. Bell.
Fort Custer, Montana	26.45	671.8	29.78	756.4	41	5.0	76	s.	8	3.6	.....	0	5 s	.....	calm	0	0	fair	V. Verge.
Fort Davis, Texas	25.15	638.8	30.03	762.7	37	2.8	92	calm	0	0	.....	0	c	.....	.....	0	0	clear	J. Williams.
Fort Elliott, Texas	27.09	688.1	29.92	760.0	33	0.6	45	ne.	1	0.4	.....	0	0	.....	.....	0	0	clear	W. J. Cundall.
Fort Gibson, Indian T'y	29.33	745.0	29.92	760.0	39.0	3.9	89	ne.	2	0.9	.....	0	0	.....	.....	0.04	1.0	clear	J. B. Campbell.
Fort Grant, Arizona	25.24	641.1	30.07	763.8	38	3.3	52	n.	4	1.8	.....	0	0	.....	.....	0	0	clear	T. J. Macgowan.
Fort Griffin, Texas	28.64	727.4	29.99	761.7	45	7.2	68	n.	2	0.9	.....	0	0	.....	.....	0	0	clear	G. H. Hayne.
Fort Keogh, Montana	27.07	687.6	29.72	754.9	39	3.9	72	sw.	6	2.7	.....	5 cs	0	.....	.....	0	0	fair	W. B. Stockman.
Fort Macon, North Carolina	29.84	757.9	29.85	758.2	59	15.0	100	s.	17	7.6	.....	.....	10 s	.....	s.	0.79	20.1	cloudy	L. Leonardy.
Fort McKavett, Texas	27.76	705.1	30.08	764.0	45.8	7.7	56	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. E. Thatcher.
Fort Missoula, Montana	26.41	670.8	29.79	756.7	33	0.6	88	sw.	12	5.4	.....	.....	10 n	.....	.....	0.34	8.6	light rain	J. H. Jones.
Fort St. Michaels, Alaska	29.72	754.9	29.75	755.6	— 4	—20.0	100	sw.	7	3.1	.....	0	5 s	.....	sw.	0	0	fair	A. P. Leavitt.
Fort Shaw, Montana	25.87	657.1	29.67	753.6	37	2.8	56	sw.	16	7.2	.....	0	5 s	.....	.....	inap.	inap.	fair	A. L. Mathews.
Fort Sill, Indian Territory	28.68	728.5	29.97	761.2	43	6.1	69	calm	0	0	.....	0	0	.....	.....	0	0	clear	T. Cleary.
Fort Stevenson, Dakota	27.65	702.3	29.63	752.6	35	1.7	89	nw.	6	2.7	.....	0	9 s	.....	w.	inap.	inap.	cloudy	W. Burrows.
Fort Verde, Arizona	.....	.....	.....	.....	35	1.7	56	w.	.....	.....	1	0	0	.....	.....	0	0	clear	D. Brooks.
Fort Washakie, Wyoming	24.20	614.7	.....	.....	33.2	0.7	85	se.	4	1.8	.....	0	1 k	.....	.....	0	0	clear	T. M. Ambler.
Fredericksburg, Texas	28.22	716.8	29.98	761.5	48	8.9	80	nw.	3	1.3	.....	0	0	.....	.....	0	0	clear	H. S. Miles.
Galveston, Texas	29.94	760.5	29.98	761.5	60.5	15.8	77	e.	2	0.9	.....	0	fg.	.....	.....	0	0	clear	E. O'C. MacInerney.
Grand Haven, Michigan	29.01	736.8	29.71	754.6	37.5	3.1	94	w.	2	0.9	.....	0	fg.	.....	.....	1.25	31.7	clear	W. A. Reid.
Hatteras, North Carolina	29.91	759.7	29.93	760.2	58	14.4	100	se.	24	10.7	.....	.....	10n;fog	.....	se.	3.10	78.7	light rain	R. M. Crawford.
Helena, Montana	25.37	644.4	29.74	755.4	35	1.7	89	nw.	4	1.8	.....	.....	10 n	.....	w.	0.04	1.0	heavy snow	N. C. Smith.
Henrietta, Texas	28.96	735.6	30.00	762.0	46	7.8	76	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. W. Byram.
Huron, Dakota	28.22	716.8	29.70	754.4	36	2.2	79	e.	5	2.2	.....	0	5 s	.....	.....	0	0	fair	S. W. Glenn.
Indianapolis, Indiana	28.98	736.1	29.82	757.4	47	8.3	77	nw.	9	4.0	.....	.....	10 ks	.....	nw.	0.89	22.6	cloudy	O. Schutze.
Indianola, Texas	29.96	761.0	29.99	761.7	61.4	16.3	87	nw.	2	0.9	.....	0	0	.....	.....	0	0	clear	I. A. Reed.
Jacksboro, Texas	28.76	730.5	29.96	761.0	47	8.3	68	sw.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. P. Sherry.
Jacksonville, Florida	29.84	757.9	29.89	759.2	64	17.8	78	sw.	12	5.4	.....	3 cs	0	.....	.....	0.61	15.5	clear	J. W. Smith.
Keokuk, Iowa	29.11	739.4	29.80	756.9	39.0	3.9	89	sw.	6	2.7	.....	0	5 s	.....	sw.	0	0	fair	F. Z. Gosewisch.
Key West, Florida	29.99	761.7	30.01	762.2	73.5	23.1	87	s.	9	4.0	.....	1 cs	1k;fg.	.....	s.	0.05	1.3	clear	L. M. Melbourne.
Kittyhawk, North Carolina	29.88	758.9	29.90	759.4	61	16.1	93	s.	41	18.3	.....	.....	10 n	.....	.....	1.67	42.4	light rain	E. A. Beals.
Knoxville, Tennessee	28.74	730.0	29.80	756.9	53	11.7	93	nw.	8	3.6	.....	.....	10 n	.....	nw.	1.91	48.5	light rain	J. A. Cody.
La Crosse, Wisconsin	28.82	732.0	29.64	752.8	38	3.3	72	s.	10	4.5	.....	0	0	.....	.....	0	0	clear	S. C. Emery.
La Mesilla, New Mexico	26.10	662.9	30.05	763.3	36.7	2.6	68	calm	0	0	.....	0	0	.....	.....	0	0	clear	N. D. Lane.
Leavenworth, Kansas	28.92	734.6	29.86	758.4	46	7.8	68	s.	14	6.3	.....	3 cs	0	.....	.....	0	0	clear	A. W. Browne.
Lewiston, Idaho	29.09	738.9	29.95	760.7	38	3.3	58	e.	12	5.4	.....	0	1 s	.....	e.	0.17	4.3	clear	W. Blake.
Little Rock, Arkansas	29.62	752.3	29.95	760.7	48	8.9	93	w.	2	0.9	.....	0	0	.....	.....	0	0	clear	M. F. Burrows.
Los Angeles, California	29.72	754.9	30.12	765.0	41.3	5.2	82	ne.	1	0.4	.....	0	0	.....	.....	0	0	clear	E. F. Kubel.
Louisville, Kentucky	29.20	741.7	29.79	756.7	50	10.0	86	nw.	12	5.4	.....	.....	10 s	.....	nw.	0.32	8.1	cloudy	H. C. Smith.
Lynchburg, Virginia	29.01	736.8	29.73	755.1	49.0	9.4	93	e.	4	1.8	.....	.....	10 s	.....	s.	0.55	14.0	cloudy	T. H. Breen.
Madison, Wisconsin	28.67	728.2	29.74	755.4	37	2.8	82	w.	4	1.8	.....	1 c	0	w.	.....	0.09	2.3	clear	C. A. Shaw.
Marquette, Michigan	28.83	732.3	29.60	751.8	36	2.2	69	w.	14	6.3	.....	0	2 s	.....	w.	0.03	0.8	clear	I. Gilligan.
Mason, Texas	28.33	719.6	30.02	762.5	46	7.8	71	nw.	6	2.7	.....	0	0	.....	.....	0	0	clear	A. M. Wilson.
Memphis, Tennessee	29.61	752.1	29.96	761.0	49	9.4	77	calm	0	0	.....	0	0	.....	.....	0.37	9.4	clear	D. T. Flannery.

STATIONS.	Barometer, Corrected for instrumental error and for temperature.		Barometer, Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–01	0–10	0–10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Milwaukee, Wisconsin	28.94	735.1	29.73	755.1	38	3.3	89	sw.	7	3.1		0	2 s			0.48	12.2	clear	W. Line.
Mobile, Alabama	29.92	760.0	29.96	761.0	56	13.3	83	nw.	3	1.3		0	0			0.75	19.1	clear	J. D. Paxton.
Montgomery, Alabama	29.66	753.4	29.90	759.4	54	12.2	86	w.	10	4.5		0	3 ks		nw.	1.60	40.6	clear	J. B. McLaughlin.
Moorhead, Minnesota	28.57	725.7	29.65	753.1	35.1	1.7	79	calm	0	0			10 s			0	0	cloudy	H. Bessant.
Morgantown, W. Virginia	28.03	727.2	29.69	754.1	49.0	9.4	80	calm	0	0		2 cs	8 s	w.	sw.	0.94	23.9	cloudy	J. Sprigg, jr.
Mt. Washington, N. H.	23.70	602.0	30.22	767.6	28.0	— 2.2	100	s.	85	38.0			10n;fg		s.	0.45	11.4	sleeting	J. G. Linsley.
Nashville, Tennessee	29.30	744.2	29.86	758.4	53.5	11.9	86	nw.	8	3.6			10 ks		nw.	0.62	15.8	cloudy	L. A. Jesunofsky.
New Haven, Connecticut	29.92	760.0	30.04	763.0	46	7.8	100	se.	14	6.3			10 n		se.	0.09	2.3	light rain	J. H. Sherman.
New London, Connecticut	30.07	763.8	30.12	765.0	44	6.7	83	se.	20	8.9			10 n		se.	0.09	2.3	light rain	J. G. Lynch.
New Orleans, Louisiana	29.92	760.0	29.98	761.5	60.5	15.8	71	n.	1	0.4		0	0			0.95	24.1	clear	A. J. Armstrong.
Newport, Rhode Island	30.10	764.5	30.15	765.8	42.0	5.6	92	e.	16	7.2			10 s		se.	0	0	cloudy	W. M. Gilliroy.
New River, N. Carolina					61	16.1	93	s.			4		10 s		s.	0.32	8.1	threatening	C. C. Corbin.
New Shoreham, Rhode I'd.	30.10	764.5	30.13	765.3	45.0	7.2	83	se.	19	8.5			10 s		s.	0	0	cloudy	W. Davis.
New York, New York	29.78	756.4	29.96	761.0	48	8.9	100	se.	23	10.3			10 n		e.	0.43	10.9	light rain	E. B. Garriott.
Norfolk, Virginia	29.82	757.4	29.85	758.2	62	16.7	100	sw.	12	5.4			10 n			0.44	11.2	light rain	J. T. Elker.
North Platte, Nebraska	26.83	681.5	29.89	759.2	45.6	7.6	47	w.	14	6.3		0	5 s			0	0	fair	E. F. Brady.
Olympia, Washington T'y	29.84	757.9	29.88	758.9	35.0	1.7	89	s.	2	0.9			10 n		calm	0.28	7.1	light snow	J. Doscomb.
Omaha, Nebraska	28.51	724.1	29.76	755.9	42.5	5.8	56	sw.	4	1.8		0	0			0	0	clear	A. Pollak.
Ooglaamie, Pt. Barrow, Alas.	29.22	742.2	29.24	742.7	— 7.2	—21.8	84	w.	23	10.3		2 c	4 s	w.		0.03	0.8	fair	P. H. Ray.
Oswego, New York	29.35	745.5	29.69	754.1	44.0	6.7	91	s.	16	7.2			10 n		sw.	0.14	3.6	light rain	S. W. Beall.
Palestine, Texas	29.46	748.3	30.03	762.7	50	10.0	44	nw.	4	1.8		0	0			0	0	clear	L. M. Pindell.
Pensacola, Florida	29.93	760.2	29.96	761.0	57.6	14.2	81	nw.	4	1.8		0	0			0.13	3.3	clear	M. McGauran.
Philadelphia, Pa	29.77	756.1	29.88	758.9	59	15.0	93	se.	13	5.8			10 n		se.	0.55	14.0	light rain	T. F. Townsend.
Pike's Peak, Colorado	17.53	445.3	30.12	765.0	9.5	—12.5	87	nw.	52	23.2		0	1 s			0	0	clear	L. M. Dey.
Ploche, Nevada	24.04	610.6	30.18	766.6	35	1.7	69	s.	1	0.4		1 k	0	calm		0	0	clear	C. K. Kitchel.
Pittsburg, Pennsylvania	28.82	732.0	29.68	753.9	51.6	10.9	86	se.	6	2.7			10 ks		se.	0.07	1.8	cloudy	J. H. Bryce.
Port Eads, Louisiana	29.98	761.5	29.99	761.7	60.0	15.6	81	n.	10	4.5		hz	0			0.85	21.6	clear	H. G. Christian.
Port Huron, Michigan	28.94	735.1	29.66	753.4	45.7	7.6	100	nw.	9	4.0			10 ks		nw.	0.79	20.1	cloudy	W. O. Bailey.
Portland, Maine	30.20	767.1	30.25	768.3	38.0	3.3	82	e.	9	4.0			10n;fg		e.	0.04	1.0	light rain	D. C. Murphy.
Portland, Oregon	29.87	758.7	29.94	760.5	37.0	2.8	89	calm	0	0		3 cs	3 s		sw.	0.75	19.0	fair	M. L. Hearne.
Portsmouth, N. Carolina					61	16.1	100	sw.	27	12.1			10 n		sw.	1.03	26.2	heavy rain	F. P. Chaffee.
Prescott, Arizona	24.78	629.4	30.12	765.0	31	— 0.6	81	w.	3	1.3		0	0			0	0	clear	J. M. N. Wright.
Provincetown, Mass.	30.17	766.3	30.20	767.1	40	4.4	82	se.	26	11.6		0	6 s		se.	0	0	fair	P. T. Jenkins.
Punta Rassa, Florida	29.92	760.0	29.93	760.2	71	21.7	90	s.	20	8.9		7 c	0	w.		0	0	fair	W. J. Evans.
Red Bluff, California	29.65	753.1	30.03	762.7	50.7	10.4	97	s.	9	4.0			10 s			0.03	0.8	cloudy	J. M. Frantz.
Rio Grande City, Texas	29.72	754.9	29.96	761.0	50	10.0	86	n.	4	1.8		0	0			0	0	clear	W. H. Taylor.
Rochester, New York	29.00	736.6	29.70	754.4	49	9.4	86	s.	22	9.8			10 n		s.	0.02	0.5	light rain	A. T. Sherwood.
Roseburg, Oregon	29.46	748.3	30.02	762.5	38.1	3.4	92	e.	5	2.2		0	4 s		sw.	1.08	27.4	fair	J. J. Naury.
Sacramento, California	30.03	762.7	30.11	764.8	51.0	10.6	86	se.	7	3.1			9 s		sw.	0	0	cloudy	J. A. Barwick.
St. Louis, Missouri	29.27	743.4	29.90	759.4	42.0	5.6	92	w.	2	0.9		0	0			0.70	17.8	clear	J. H. Webber.
St. Paul, Minnesota	28.71	729.2	29.63	752.6	34.8	1.6	85	calm	0	0		0	3 ks			0	0	clear	O. S. M. Cone.
St. Vincent, Minnesota	28.67	728.2	29.61	752.1	13	—10.6	80	se.	1	0.4		0	0			0	0	clear	G. Kingsbury.
Salt Lake City, Utah	25.54	648.7	30.06	763.5	43	6.1	76	ne.	6	2.7			10 s			0.09	2.3	threatening	J. Craig.
San Antonio, Texas	29.24	742.7	29.95	760.7	54.0	12.2	96	n.	3	1.3		0	0			0	0	clear	E. Lane.
San Diego, California	29.96	761.0	30.03	762.7	46.3	7.9	91	n.	1	0.4		0	0			0	0	clear	A. C. Dobbins.
Sandusky, Ohio	28.90	734.0	29.62	752.3	45	7.2	93	w.	24	10.7			10 s			0.19	4.8	cloudy	M. H. Perry.
Sandy Hook, New Jersey	29.91	759.7	29.95	760.7	48.0	8.9	93	se.	23	10.3			10 n		calm	0.60	15.2	light rain	B. A. Blundon.
San Francisco, California	30.04	763.0	30.11	764.8	53	11.7	93	s.	5	2.2			10 s		s.	inap.	inap.	threatening	N. Gorom.
Santa Fé, New Mexico	23.16	588.3	30.10	764.5	38	3.3	47	n.	14	6.3		0	0			0	0	clear	H. N. Jones.
Savannah, Georgia	29.71	754.6	29.80	756.9	61	16.1	81	sw.	11	4.9		1 ck	5 ks	w.	sw.	0.65	16.5	fair	H. M. Ford.
Shreveport, Louisiana	29.70	754.4	29.95	760.7	50	10.0	93	w.	2	0.9		0	0			0	0	clear	E. N. Meekins.
Silver City, New Mexico	24.26	616.2	30.04	763.0	33	0.6	57	nw.	2	0.9		0	0			0	0	clear	J. B. Wallace.
Sitka, Alaska	29.06	738.1	29.13	739.9	27.5	— 2.5	88	ne.	9	4.0		5 k	2 s	sw.	calm	0.07	1.8	fair	J. J. McLean.
Smithville, North Carolina	29.76	755.9	29.80	756.9	61	16.1	100	s.	24	10.7			10 n		s.	0.02	0.5	thnd'r str'm	J. C. Rickli.
Spokane Falls, Wash. Ter.	27.78	705.6	29.91	759.7	31	— 0.6	71	sw.	20	8.9		0	0			0.02	0.5	clear	D. Moore.
Springfield, Illinois	29.15	740.4	29.87	758.7	41	5.0	73	s.	2	0.9		0	0			0.71	18.0	clear	T. B. Jennings.
Springfield, Massachusetts	29.95	760.7	30.09	764.3	36.8	2.7	100	n.	4	1.8			10n;fg			0.16	4.1	light rain	T. S. Outram.
Springfield, Mo	28.45	722.6	30.01	762.2	38.5	3.6	82	s.	6	2.7		3 c	fg	w.		1.21	30.7	dense fog	J. B. Marbury.
Stockton, Texas	26.93	684.0	30.01	762.2	42.0	5.6	67	sw.	4	1.8		0	0			0	0	clear	J. O'Dowd.
Thatcher's Island, Mass.	30.15	765.8	30.21	767.3	38.5	3.6	86	s.	18	8.0			10 s		se.	0	0	cloudy	G. Liebmann.
Toledo, Ohio	28.93	734.8	29.66	753.4	50	10.0	86	nw.	13	5.8			10 s		nw.	0.43	10.9	cloudy	A. Buell.
Tucson, Arizona	27.57	700.3	30.03	762.7	43	6.1	76	se.	4	1.8		0	0			0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.63	752.6	30.01	762.2	36.0	2.2	72	sw.	10	4.5		0	0			0.37	9.4	clear	R. P. Sibley.
Uvalde, Texas	29.00	736.6	29.98	761.5	45	7.2	76	calm	0	0		0	0			0	0	clear	E. C. Imlay.
Vicksburg, Mississippi	29.72	754.9	29.98	761.5	56	13.3	80	nw.	1	0.4		hz	0			0.07	1.8	clear	T. J. Kenan.
Visalia, California	29.71	754.6	30.09	764.3	44.5	6.9	88	e.	3	1.3			10 s			0	0	cloudy	J. T. Cochran.
Washington, D. C.	29.65	753.1	29.77	756.1	57	13.9	100	s.	9	4.0			10 s		s.	0.20	5.1	cloudy	B. M. Pursell.
West Los Animas, Colorado	25.87	657.1	29.95	760.7	30	— 1.1	60	nw.	6	2.7		0	0			0	0	clear	J. Grover.
Wickenburg, Arizona					40.0	4.4	82	nw.			1	0	0			0	0	clear	H. A. Kremp.
Williamsport, Pa	29.16	740.7	29.78	756.4	50	10.0	93	se.	6	2.7			10 n		s.	0.24	6.1	light rain	B. F. Hough.
Wilmington, N. Carolina	29.74	755.4	29.80	756.9	65	18.3	93	sw.	12	5.4			10 n		w.	0.30	7.6	heavy rain	S. A. Haney.
Winnemucca, Nevada	25.51	647.9	30.01	762.2	42	5.6	52	sw.	18	8.0		0	5 ks		sw.	0	0	fair	J. R. Williams.
Yankton, Dakota	28.32	719.3	29.70	754.4	40	4.4	73	sw.	9	4.0		10 ck	0			0	0	cloudy	J. H. Atfield.
Yuma, Arizona	29.82	757.4	29.97	761.2	49.0	9.4	74	ne.	4	1.8		0	0			0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.03	559.6			54.5	12.5	79	sw.	1	0.4			10s;ks			0	0	cloudy	Joaquin Gomez.
Bridgetown, Barbados, W. I.	30.07	763.8	30.08	764.0	77	25.0	82	e.				5 k	5 ks	e.	e.	0	0	fair	J. A. Racker.
Buenaventura, U. S. C.	29.97	761.2	29.99	761.7	77	25.0	95	calm	0	0			10 n		calm	0.10	2.5	raining	J. I. Plume.
Guadeloupe, W. I.	29.99	761.7	30.01	762.2	75	23.9	86	e.				0	1 s			0	0	clear	B. Bigar.
Havana, Cuba, W. I.	30.02	762.5	30.07	763.8	75	23.9	82	s.	1,2	0.5		0	1 ks		calm	0	0	clear	A. Van Caneghem.
Kingston, Jamaica, W. I.	30.04	763.0	30.05	763.3	71.2	21.8	81	n.	1	0.4		0	0			0	0	fine	Robert Johnston.
Navassa	30.10	764.5	30.18	766.6	77	25.0	71	ne.	7	3.1		5 ck	2 s		ne.	0	0		F. M. Everett.
Paramaribo, S. A.	30.05	763.3	30.05	763.3	78	25.6	86	e.			2	5 k	4 s	e.		0	0	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.50	749.3	29.90	761.0	80	26.7	86	calm			0		10 s		calm	4.54	115.3	cloudy	Miss Flora A. Nichols.
Santiago de Cuba, W. I.	30.05	763.3	30.08	764.0	74	23.3	76	calm	0	0		1 c	0			0	0	fair	Robert Mason.
York Factory, B. A.	29.38	746.2	29.43	747.5	4.0	—15.6	87	n.	4	1.8		0	0			0	0	clear	J. Fortescue & W. Wood.

STATIONS AND VESSELS.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	o–10	o–10	o–10	From.	From.	Inch.	Mill.			
BRITISH NAVAL.																		
H. M. S. Agincourt, N. 36° 07′, W. 5° 21′	30.29	769.4	58.5	14.7	97	nw.			3		3	nnw.						d. clouds.
H. M. S. Alert, N. 1° 24′, E. 57° 39′	29.91	759.7	82	27.8	78	ene.			2–3		3							d. clouds.
H. M. S. Alexandra, Malta, Mediterranean	30.14	765.5	66.5	19.2	71	sw.			1		1							blue sky.
H. M. S. Bacchante, N. 29° 32′, E. 32° 30′	30.13	765.3	60	15.6	100	calm			0		0							blue sky.
H. M. S. Boadicea, S. 34° 11′, E. 18° 26′	30.04	763.0	71	21.7	59	s.			1–2		5	se.						d. clouds.
H. M. S. Comus, Singapore, Malay Pen.	29.99	761.7	80	26.7	86	ne.			1		3							d. clouds.
H. M. S. Diamond, S. 40° 12′, E. 58° 50′	30.22	767.6	60.5	15.8	73	s.			1–2		1	wsw.				3	ne.	d clouds.
H. M. S. Dido, N. 13° 05′, W. 59° 36′	30.10	764.5	78	25.6		ne.			2		3	ne.						d. clouds.
H. M. Dock Yard, Bermuda, W. I.	30.32	770.1	62	16.7	71	ene.			1–2		2	ene.						d. clouds.
H. M. S. Dwarf, S. 34° 54′, W. 56° 10′	29.90	759.4	69.5	20.8	84	ene.			1–2		5					1–2	ene.	d. clouds.
H. M. S. Eclipse, S 14° 50′, E. 41° 05′	29.85	758.2	87	30.6		ssw.			2		3					2	ssw.	d. clouds.
H. M. S. Fawn, N. 14° 25′, E. 44° 40′	29.93	760.2	78.5	25.8	82	s.			6		2					4	s.	misty.
H. M. S. Flying Fish, N. 34° 41′, E. 135° 12′	30.30	769.6	44	6.7	84	nne.			1		8					1	ene.	misty.
H. M. S. Gannet, S. 24° 00′, W. 87° 40′	30.11	764.8	70.5	21.4	82	ese.			3–6		8					2	e; se,	showery.
H. M. S. Garnet, S. 51° 21′, W. 60° 00′	29.72	754.9	47	8.3	85	nne.			3		10							overcast.
H. M. S. Inconstant, Singapore, Malay Pen.	29.99	761.7	78	25.6	95	ne.			1–2		2	ne.						d. clouds.
H. M. S. Iris, N. 35° 40′, E. 15° 16′	30.14	765.5	64	17.8	83	wsw.			3		1					3	wsw.	blue sky.
H. M. S. Iron Duke, N. 22° 16′ E. 114° 10′	30.12	765.0	65	18.3	94	ene.			1		4	ne.						d. clouds.
H. M. S. Magpie, N. 22° 16′, E. 114° 10′	30.11	764.8	64.5	18.1	85	e.			1		10							misty.
H. M. S. Malabar, N. 49° 53′, W. 3° 16′	29.02	737.1	48	8.9	85	ssw.			6		7	w.				7	sw.	d. clouds.
H. M. S. Orontes, S. 11° 15′, E. 42° 27′	29.80	756.9	80.5	26.9	97	wnw.			3		10					3	nw.	showery.
H. M. S. Ramtler, Batonga, Lower Guinea	29.89	759.2	84	28.9		s.			1		0							misty.
H. M. S. Ready, Shat-el-Arab R., Turkey	30.20	767.1	71.1	21.7		nw.			2		0							blue sky.
H. M. S. Rocket, Vancouver Id., Brit. Col.	29.81	757.2	37	2.8	90	ssw.			1–3		3							squally.
H. M. S. Sea Gull, S. 3° 13′, E. 40° 08′	29.28	743.7	82	27.8	91	ne.			2–3		2	nne.				5	nne.	d. clouds.
H. M. S. Thalia, N. 21° 30′, W. 23° 40′	30.26	768.6	70	21.1		ene.			6		1					4	ene.	blue sky.
H. M. S. Triumph, S. 23° 27′, W. 87° 34′	30.16	766.1	75	23.9	64	ese.			3–5		6	se.				4	se.	squally.
H. M. S. Woodlark, Bombay, India	30.03	762.7	77.5	25.3	77	nw.			2–3		0							misty.
PORTUGUESE NAVAL.																		
Quanza, N. 16° 37′, W. 22° 53′	30.00	762.0	73.4	23.0	74	ne.			5		0					4	ne	blue sky.
SWEDISH NAVAL.																		
H. M. Corvette Balder, N. 23° 54′, W. 82° 15′	29.97	761.2	76.3	24.6	96	sse.			2		3							d. clouds.
UNITED STATES NAVAL.																		
Navy Yard. Pensacola, Fla.	29.95	760.7	62	16.7	83	w.	2	0.9			0			0.02	0.5			clear.
N. Yard, Portsmouth, N. H.	30.36	771.1	38	3.3	90	se.	6	2.7			10		se.	0.2	5			cloudy.
Naval Hospital, Yokohama, Japan	30.13	765.3	38	3.3	58	nne.			2		10		sw.	0	0			overcast.
Adams, Callao, Peru	29.74	755.4	65	18.3	100	sse.			0–1		2					gr'd		fair.
Alaska, Valparaiso, Chili	30.00	762.0	61	16.1	66	calm			0		0			0	0	sm'h		clear.
Alert, N. 2° 25′, E. 110° 42′*	29.85	758.2	83	28.3	79	n.			3		10		n.	0	0	sm'h		cloudy.
Alliance, N. 24° 52′, W. 66° 10′	30.12	765.0	71	21.7	85	ese.			2		5		ese.	light	light	sm'h		fair.
Ashuelot, Tientsin, China	30.59	777.0	30	1.1	100	wnw.			1		2		calm					fair.
Brooklyn, Magellan Strait	29.56	750.8	50	10.0	93	ene.	5	2.2			10		ene.	0.01	0.3	sm'h		cloudy.
Colorado, New York, N. Y.	29.93	760.2	44	6.7	?	ese.	18	8.0			10		ese.	0.123	3.1			rainy.
Enterprise, Port Royal, S. C.*	29.74	755.4	62	16.7	88	ssw.			3		10		s; w.			sm'h		cloudy.
Essex, Porto Grande, C. Verd Ids.	30.10	764.5	71	21.7	71	ene.			6		2					long	ne.	clear.
Franklin, Norfolk, Va.	29.88	758.9	62	16.7	100	sse.	18	8.0			10		sse.	0.2	5.			raining.
Galena, Villafranca, France	29.69	754.1	63	17.2	78	wsw.			1		2					sm'h		clear.
Independence, Mare Island, Cal.	29.96	761.0	53	11.7	86	s.			2		10		ssw.	0	0			cloudy.
Kearsarge, New Orleans, La.	30.00	762.0	61	16.1	77	wsw.			2		2		calm					hazy.
Lackawana, Valparaiso, Chili	30.12	765.0	60	15.6	94	calm			0		0							hazy.
Lancaster, N. 37° 33′, E. 26° 43′*	29.97	761.2	63	17.2	100	nw.			4		2		calm	0.50	12.7	sm'h		fair.
Marion, S. 33° 54′, E. 18° 24′*	29.75	755.6	73	22.8	76	e.			2		5		calm			sm'h		clear.
Michigan, Erie, Pa.	30.55	776.0	53	11.7	100	s.			5		10		sw.					cloudy.
Minnesota, Newport, R. I.	30.15	765.8	45	7.2	84	se.	10	4.5			10		sw.					hazy.
Monocacy, Yokohama, Japan.	30.33	770.4	40	4.4	73	nne.			2		10		calm					cloudy.
New Hampshire, Newport, R. I.	30.09	764.3	44	6.7	84	se.			4		10			0	0	sm'h		cloudy.
Nipsic, Vigo, Spain	30.11	764.8	62	16.7	61	w.			4		5		w.			long	w.	fair.
Onward, Callao, Peru†	30.05	763.3	62	16.7	100	calm			0		10					long	w.	foggy.
Palos, Hong Kong, China	30.14	765.5	64	17.8	94	ese.			1		10		w.					overcast.
Passaic, Washington, D. C.	29.80	756.9	57	13.9	100	se.			1		10		calm					cloudy.
Pensacola, Coquimbo, Chili	30.00	762.0	60	15.6	88	calm	0	0			0			0	0	sm'h		clear.
Powhatan, N. 17° 26′, W. 64° 25′	30.12	765.0	80	26.7	70	e.			1		2		e.			sm'h		fair.
Quinnebaug, Alexandria, Egypt	30.15	765.8	64	17.8	58	w.			2		0					sm'h		clear.
Ranger, Acapulco, Mexico*	29.83	757.7	77	25.0	82	calm			0		0			0	0	sm'h		clear.
Richmond, Yokohama, Japan*	30.21	767.3	41	5.0	65	ne.			2		10			0	0			cloudy.
Shenandoah, S. 16° 05′, W. 27° 08′*	30.08	764.3	79	26.1	70	ene.			4		2		ene.			sm'h		clear.
St. Louis, League Island, Pa.	30.11	764.8	56	13.3	94	se.	24	10.7			10		se.	0.5	13.			raining.
Swatara, Yokohama, Japan*	30.09	764.3	41	5.0	65	nne.			2		10		calm			sm'h		misty.
Tennessee, Fortress Monroe, Va.	29.83	757.7	58	14.4	100	sse.	12	5.4			10		s.	1.14	29.0			rain & fog.
Vandalia, Havana, Cuba*†	30.16	766.1	74	23.3	90	se.			1		0							clear.
Wabash, Boston, Mass.	30.18	766.6	40	4.4	91	calm	0	0			10		sw.	0.3	8.			misty.
Wachusetts, Cardaenas Bay, Alaska	29.20	741.7	32	0.0		se.	4	1.8			10		calm			sm'h		snowing.
Wyoming, Port Royal, S. C.	29.75	755.6	61	16.1	82	ssw.	16	7.2			8		sw.	0.64	16.3			cloudy.
Yantic, N. 21° 52′, W. 85° 49′*	29.92	760.0	76	24.4	86	se.			3		2		se.			sm'h		clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
										Upper.	Lower.	Upper.	Lower.					
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Circassian, N. 45° 30′, W. 45° 10′	30.45	773.4	43	6.1	83	ene.	.....	.....	6	.....	10	.....	ene.	3 h'r	3 h'r	3	ene.	raining.
S. S. Peruvian, N. 54° 33′, W. 8° 09′*	29.07	738.4	34	1.1	.....	ese.	.....	.....	8	.....	8	.....	e.	16 h'r	16 h'r	r'gh	e.	cloudy.
S. S. Prussian, Boston, Mass*	30.11	764.8	40	4.4	.....	calm	.....	.....	0	.....	8	.....	.....	.....	.....	.....	.....	cloudy.
S. S. Waldensian, N. 43° 05′, W. 66° 24′*	30.38	771.6	34	1.1	.....	sse.	.....	.....	4	.....	2	.....	s.	0	0	.....	.....	clear.
AMERICAN STEAMSHIP COMPANY.																		
S. S. Illinois, Philadelphia, Penn	29.79	756.7	47	8.3	92	se.	.....	.....	3	.....	10	.....	se.	.....	.....	.....	.....	raining.
S. S. Indiana, N. 41′, 26° W. 46° 52′†	30.07	763.8	55	12.8	38	nw.	.....	.....	3	.....	8	.....	nnw.	h'vy	h'vy	h'vy	wnw.	cloudy.
S. S. Ohio, Liverpool, England*†	28.84	732.5	51	10.6	100	ssw.	.....	.....	5	.....	9	.....	wnw.	.....	.....	.....	.....	showery.
ANCHOR LINE.																		
S. S. Galatia, N. 48° 27′, W. 14° 56′†	29.65	753.1	.....	.....	.....	nw.	.....	.....	9	.....	8	.....	nw.	12 h'r	12 h'r	very hv'y	nw.	squally.
ATLAS LINE.																		
S. S. Alvo, Savanilla, U. S. C	29.96	761.0	78	25.6	.....	ne.	.....	.....	4	.....	0	.....	.....	0	0	.....	.....	fine.
S. S. Andes, N. 32° 19′, W. 73° 50′*†	29.87	758.7	64	17.8	.....	wnw.	.....	.....	5	.....	5	.....	nw.	3 h'r	hail	h'vy	nw.	threatening.
S. S. Arden, N. 34° 30′, W. 74° 30′	.....	.....	66	18.9	.....	s.	.....	.....	5	.....	10	.....	s.	.....	.....	.....	s.	
BOSTON AND HALIFAX.																		
S. S. Carroll, Boston, Mass†	30.11	764.8	60	15.6	76	sse.	.....	.....	.....	.....	.....	.....	.....	0	0	.....	.....	cloudy.
BRITISH METEOROLOGICAL OFFICE.																		
S. S. Auckland, S. 24° 03′, W. 28° 45′	30.11	764.8	79	26.1	.....	nne.	.....	.....	3	.....	4	.....	.....	.....	.....	.....	.....	squally.
Baroda, S. 39° 36′, W. 17° 15′	29.98	761.5	61.4	16.3	94	ne.	.....	.....	2	.....	10	.....	.....	.....	.....	.....	.....	drizzling.
Bk. Caldew, S. 23° 05′, W. 26° 24′	30.16	766.1	79.9	26.6	.....	ene.	.....	.....	5	.....	3	.....	.....	.....	.....	.....	.....	d. clouds.
S. S. Cipero, N. 39° 03′, W. 28° 40	30.42	772.7	57.8	14.3	66	nnw.	.....	.....	1	.....	3	.....	.....	.....	.....	2	nne.	d. clouds.
Coppename, N. 23° 32′, W. 56° 51′	30.17	766.3	71.5	21.9	80	ne.	.....	.....	4	.....	4	.....	.....	.....	.....	.....	.....	blue sky.
Glencairn, N. 15° 51′, E. 89° 38′	30.00	762.0	78	25.6	73	nne.	.....	.....	3	.....	0	.....	.....	.....	.....	.....	.....	blue sky.
S. S. Gordon Castle, N. 22° 09′, E. 37° 37′	30.01	762.2	83	28.3	52	nne.	.....	.....	1–2	.....	2	.....	.....	.....	.....	.....	.....	d. clouds.
Hermine, S. 29° 52′, W. 30° 31′	30.06	763.5	74.2	23.4	95	nnw	.....	.....	3	.....	4	.....	.....	.....	.....	.....	.....	d. clouds.
S. Lochee, N. 0° 09′, W. 24° 25′	29.97	761.2	80.7	27.1	85	se.	.....	.....	3	.....	3	.....	.....	.....	.....	.....	.....	d. clouds.
Minho, Rio de Janeiro, Brazil	29.94	760.5	77	25.0	84	e.	.....	.....	2	.....	7	.....	.....	.....	.....	.....	.....	d. clouds.
Nalad, N. 46° 00′, W. 21° 38′	30.05	763.3	48.7	9.3	78	wnw.	.....	.....	6	.....	7	.....	.....	.....	.....	.....	.....	squally.
Queen of Cambria, N. 3° 41′, E. 86° 50′	29.86	758.4	83	28.3	79	wsw.	.....	.....	2	.....	6	.....	.....	.....	.....	.....	.....	d. clouds.
BRISTOL CITY LINE.																		
S. S. Brooklyn City, N. 40° 00′, W. 72° 21′*†	30.15	765.8	50	10.0	.....	sse.	.....	.....	6	.....	10	.....	s.	0	0	high	sse.	cloudy.
CUNARD LINE.																		
S. S. Gallia, N. 50° 12′, W. 22° 38′†	29.84	757.9	45	7.2	92	wnw.	.....	.....	7–8	.....	8	.....	nw.	24 h'r and	rain hail	r'gh	nw.	squally.
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. Canada, N. 48° 40′, W. 30° —′	30.06	763.6	44.6	7.0	.....	wnw.	.....	.....	5	.....	6	.....	wnw.	1¼h'r	1¼h'r	.....	nw.	hailing.
HAMBURG AMERICAN PACKET COMPANY.																very		
S. S. Gellert, N. 48° 55′, W. 29° 41′*	30.03	762.7	45	7.2	.....	nw.	.....	.....	4	.....	10	.....	nw.	2 h'r	hail	h'vy	nnw.	fair.
S. S. Lessing, N. 43° 28′, W. 47° 04′*†	30.22	767.6	56	13.3	.....	sse.	.....	.....	3	.....	5	.....	n.	0	0	sm'h	s.	fair.
JOHNSTON LINE.																		
S. S. Thanemore, N. 45° 39′, W. 35° 43′	30.35	770.9	.....	.....	.....	ne.	.....	.....	1	.....	2	.....	ne.	0	0	.....	e.	clear.
MALLORY LINE.																		
S. S. Colorado, Galveston, Texas†	29.97	761.2	55	12.8	.....	sw.	.....	.....	1	.....	0	.....	.....	0	0	.....	.....	clear.
MERCHANTS' EXPRESS LINE.																		
S. S. Freja, N. 41° 35′, W. 58° 56′*†	30.52	775.2	41	5.0	91	nnw.	.....	.....	4	.....	10	.....	nw.	0	0	short	nw.	
NATIONAL LINE.																		
S. S. Erin, London, Eng	.....	.....	.....	.....	.....	ssw.	.....	.....	6	.....	7	.....	ssw.	4 h'r	h'vy	.....	.....	
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Niagara, Havana, Cuba, W. I*†	30.27	768.8	84	28.9	.....	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	.....	clear.
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Alvena, N. 38° 15′, W. 73° 50′*†	29.95	760.7	52	11.1	.....	sse.	.....	.....	6	.....	.....	.....	.....	.....	.....	.....	sse.	light rain.
S. S. New York, N. 28° 50′, W. 80° 20′*†	29.90	759.4	72	22.2	.....	s.	.....	.....	6	.....	.....	.....	.....	.....	.....	.....	s.	rainy.
NORTH GERMAN LLOYD.																		
S. S. Hermann, N. 48° 43′, W. 22° 29′*†	29.86	758.4	51.8	11.0	.....	wnw.	.....	.....	7	.....	6	.....	wnw.	0	0	r'gh	wnw.	stormy.
S. S. Hohenzollern, N. 2° 58′, W. 29° 15′*	29.95	760.7	80.4	26.9	.....	ene.	.....	.....	3	.....	2	.....	ene.	0	0	4	e.	clear.
S. S. Main, N. 42° 36′, W. 52° 16 *	30.25	768.3	35.6	2.0	.....	n.	.....	.....	4–5	.....	6	.....	n.	0	0	mod.	n.	cloudy.
S. S. Mosel, N. 50° 38′, W. 0° 22′	29.18	741.2	51.1	10.6	.....	wsw.	.....	.....	6	.....	4	.....	wsw.	4¼h'r	4¼h'r	mod.	wsw.	fair.
S. S. Oder, N. 49° 42′, W. 5° 54′*	29.23	742.4	50.0	10.0	.....	w.	.....	.....	7	.....	9	.....	w.	rain	rain	r'gh	w.	squally.
S. S. Ohio, N. 42° 02′, W. 52° 09′	30.20	767.1	.....	.....	.....	nnw.	.....	.....	6	.....	8	.....	nnw.	2 h'r	driz	r'gh	nnw.	cloudy.
S. S. Strassburg, N. 39° 39′, W. 70° 23′	30.16	766.1	46.0	7.8	96	se.	.....	.....	4	.....	8	.....	ssw.	1 h'r	1 h'r	mod.	se.	foggy
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Belgic, Hong Kong, China†	30.10	764.5	64	17.8	89	se.	.....	.....	4	.....	5	.....	ne.	0	0	.....	.....	fair.
S. S. Gaelic, N. 36° 20′, W. 173° 08′†	30.00	762.0	63	17.2	78	w.	.....	.....	4	.....	4	.....	ssw.	.....	.....	mod.	w.	clear.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, Savannah, Ga.†	29.93	760.2	.....	.....	.....	sw.	.....	.....	4	.....	5?	.....	sw.	0	0	.....	.....	clear.
S. S. Seminole, Boston, Mass†	29.97	761.2	40	4.4	.....	se.	.....	.....	3	.....	8	.....	sse.	0	0	.....	.....	threatening.
OREGON IMPROVEMENT COMPANY.																		
S. S. Mississippi, N. 48° 23′, W. 124° 50′†	29.78	756.4	41	5.0	82	s.	.....	.....	4	.....	8	.....	sw.	.....	.....	h'vy	w.	rainy.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Columbia, N. 40° 47′, W. 124° 39′†	30.03	762.7	49	9.4	96	sw.	.....	.....	1	.....	10	.....	w.	8 h'r	8 h'r	long	w.	cloudy.
S. S. Oregon, San Francisco, Cal†	30.07	763.8	51	10.6	93	calm	.....	.....	0	.....	10	.....	.....	.....	.....	.....	.....	hazy.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, San Diego, Cal.†	29.99	761.7	47	8.3	92	e.	.....	.....	1	.....	0	.....	.....	.....	.....	.....	.....	clear.
S. S. G. W. Elder, N. 40° 17′, W. 124° 40′†	30.08	764.0	50	10.0	.....	w.	.....	.....	4	.....	4	.....	w.	0	0	sm'h	.....	clear.
S. S. Idaho, Puget Sound, Washington Territory†	29.64	752.8	42	5.6	91	sw.	.....	.....	7	.....	10	.....	sw.	.....	.....	high	w.	stormy.
S. S. State of California, Portland, Oregon†	29.89	759.2	34	1.1	100	n.	.....	.....	3	.....	8	.....	sw.	0	0	.....	.....	cloudy.
S. S. Victoria, N. 42° 20′, W. 124° 45′†	30.06	763.5	46	7.8	84	sw.	.....	.....	3	.....	0	.....	.....	.....	.....	long	w.	clear.
PACIFIC MAIL STEAM SHIP COMPANY.																		
S. S. Australia, S. 0° 44′, W. 167° 54′	29.85	758.2	77	25.0	86	e.	.....	.....	3	.....	0	.....	.....	0	0	sm'h	.....	clear.
S. S. City of Rio de Janeiro, N. 15° 40′, W. 96° 52′†	30.15	765.8	77	25.0	86	e.	.....	.....	2	.....	2	.....	e.	0	0	long	e.	fine.
S. S. City of Sidney, Sydney, N. S. W†	29.98	761.5	75	23.9	56	s.	.....	.....	3	.....	10	.....	ne.	0	0	sm'h	.....	hazy.
S. S. City of Tokio, N. 23° 09′, E. 116° 39′†	30.12	765.0	66	18.9	68	ene.	.....	.....	6	.....	10	.....	ne.	0	0	sm'h	.....	cloudy.
S. S. Colima, Panama, Panama†	29.93	760.2	78	25.6	82	w.	.....	.....	2	.....	3	.....	s.	0	0	.....	.....	clear.
S. S. Grenada, N. 25° 22′, W. 112° 48′†	29.86	758.4	66	18.9	100	nw.	.....	.....	2	.....	1	.....	nw.	0	0	large	wnw.	clear.
S. S. South Carolina, San Jose, Guatemala†	30.01	762.2	78	25 6	73	n.	.....	.....	2	.....	8	.....	n.	0	0	light	w.	smoky.
S. S. Zelandia, S. 33° 43′, E. 176° 32′	30.06	763.5	69	20.6	85	nne.	.....	.....	3	.....	8	.....	n.	.....	.....	mod.	ne.	cloudy.
QUEBEC STEAM SHIP COMPANY.																		
S. S. Bermuda, Mayaguez, Porto Rico, W. I†	30.05	763.3	65	18.3	.....	nnw.	.....	.....	6	.....	9	.....	nw.	3 h'r	h'vy	.....	wnw.	squally.
S. S. Muriel, Trinidad, W. I	.....	.....	.....	.....	.....	calm	.....	.....	0	.....	.....	.....	.....	0	0	sm'h	.....	fair.
RED STAR LINE.																		
S. S. Rhynland, Antwerp, Belgium	30.19	766.8	51	10.6	79	sw.	.....	.....	6	.....	7	.....	sw.	0.3	8.	.....	.....	cloudy.
S. S. Switzerland, N. 41° 30′, W. 57° 07′†	30.46	773.7	.....	.....	.....	n.	.....	.....	6	.....	10	.....	n.	0	0	r'gh	n.	cloudy.
S. S. Vaderland, N. 49° 29′, W. 12° 44′*†	29.22	742.2	46	7.8	.....	wnw	.....	.....	9	.....	8	.....	w.	0	0	r'gh	wnw.	overcast.
S. S. Waesland, Jersey City, N. J	29.96	761.0	49	9.4	.....	nnw.	.....	.....	5	.....	10	.....	s.	22 h'r	22h'r	.....	.....	cloudy.
ROTTERDAM LINE.																		
S. S. Schiedam, N. 42° 10′, W. 49° 11′*†	30.10	764.5	45.1	7.3	83	ne.	.....	.....	4	.....	7	.....	ne.	0	0	sm'h	ne.	cloudy.
S. S. W. A. Scholten, N. 50° 29′, W. 1° 56′*	29.02	737.1	57.2	14.0	81	nw.	.....	.....	6	.....	5	.....	w.	3 h'r	3 h'r	mod.	w.	
THINGVALLA LINE.																		
S. S. Thingvalla, Brooklyn, N. Y.†	29.98	761.5	50.0	10.0	.....	sw.	.....	.....	2	.....	10	.....	sw.	6 h'r	6 h'r	.....	.....	covered.
WHITE STAR LINE.																		
S. S. Celtic, Liverpool, Eng*†	28.70	729.0	44	6.7	93	w.	.....	.....	3	.....	10	.....	sw.	6 h'r	h'vy	.....	.....	hazy.
MISCELLANEOUS.																		
Schr. Addie Fuller, Cedar Keys, Florida†	30.00	762.0	64.5	18.1	92	w.	.....	.....	2	.....	2 8	.....	w.	1.42	36.1	.....	.....	fair.
Bk. Adelaide, N. 14° 00′, W. 35° 46′*†	30.13	765.3	73	22.8	.....	e.	.....	.....	6	.....	1	.....	e.	0	0	r'gh	e.	clear.
Bk. Alpha, N. 22° 05′, W. 65° 30′*†	30.16	766.1	76	24.4	.....	ne.	.....	.....	5	.....	3	.....	n.	0	0	mod.	n.	fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
MISCELLANEOUS.—Continued.																		
Schr. Annie M. Law, N. 42° 27′ W. 37° 50′*†	30.36	771.1	55	12.8	80	ssw.	.....	.....	3	.....	9	.....	w.	0	0	long	nw.	threatening.
Schr. Annie R. Lewis, N. 29° 32′, W. 71° 30′*†	30.19	766.8	71	21.7	.....	sse.	.....	.....	3	.....	5	.....	sse.	0	0	r'gh	ene.	fair.
Bk. Antioch, S. 21° 35′, W. 38° 57′*†	29.95	760.7	85	29.4	.....	ne.	.....	.....	5	.....	1	.....	ne.	0	0	sm'h	nw.	clear.
Bk. Bergenseren, N. 33° 00′, W. 66° 18′†	30.32	770.1	.....	.....	.....	ese.	.....	.....	5	.....	.....	.....	sw.	0	0	sm'h	e.	fair.
Bk. Celestina, N. 33° 56′, W. 53° 30′*†	30.28	769.1	.....	.....	.....	nne.	.....	.....	4	.....	4	.....	.....	0	0	little	ne.	fair.
S. E. J. Spicer, N. 40° 09′, W. 67° 00′*†	30.22	767.6	.....	.....	.....	se.	.....	.....	3	.....	.....	.....	.....	0	0	mod.	se.	clear.
Bk. E. L. Pettingill, S. 54° 51′ W. 81° 01′†	29.60	751.8	.....	.....	.....	se.	.....	.....	2	.....	10	.....	e.	mist	mist	long	sw.	overcast.
S. Enoch Train, Bremerhaven, Germany*	29.20	741.7	.....	.....	.....	ese.	.....	.....	7	.....	10	.....	se.	12 h'r	12 h'r	.....	.....	rainy.
U. S. F. C. S. Fish Hawk, Smith's Creek, Md†	29.98	761.5	51	10.6	100	s.	.....	.....	6	.....	10	.....	s.	0.27	6.9	mod.	s.	raining.
Bk. Freya, N. 21° 11′, W. 59° 39′	.....	.....	75	23.9	.....	ne.	.....	.....	3	.....	2	.....	ne.	0	0	mod.	ne.	fair.
S. Grecian, N. 44° 33′, W. 11° 00′*†	29.85	758.2	54.8	12.7	.....	w.	.....	.....	8	.....	7	.....	w.	rain	&hail	r'gh	cross	cloudy.
Bk. Geo. Booth, S. 23° 00′, W. 29° 40′*†	29.90	759.4	.....	.....	.....	e.	.....	.....	3	.....	.....	.....	.....	0	0	sm'h	.....	clear.
Bk. Granville, N. 12° 27′, W. 34° —′*†	30.20	767.1	75	23.9	.....	ne.	.....	.....	3	.....	.....	.....	ene.	0	0	r'gh	ene.	clear.
Schr. Henry Denison, N. 26° 11′, W. 64° 27′†	30.26	768.6	.....	.....	.....	ene.	.....	.....	4	.....	3	.....	ene.	0	0	r'gh	e.	fair.
Bk. Johanne Auguste, S. 35° 22′, E. 78° 53′*†	30.03	762.7	.....	.....	.....	e.	.....	.....	1	.....	2	.....	ene.	0	0	long	sw.	fair.
Bk. Kate Cann, N. 38° 06′, W. 57° 28′	.....	.....	.....	.....	.....	ne.	.....	.....	1	.....	10	.....	se.	0	0	sm'h	e.	
Bkt. Kryolith, N. 34° 34′, W. 59° 53′*†	30.33	770.4	.....	.....	.....	nne.	.....	.....	3	.....	8	.....	ne.	0	0	light	nne.	cloudy.
S. S. Lamperts, N. 32° 43′, W. 78° 40′*	29.79	756.7	62.4	16.9	91	ssw.	.....	.....	6	.....	10	.....	.....	.....	.....	sm'h	.....	raining.
Schr. Moravian, N. 9° 34′, W. 79° 40′	.....	.....	.....	.....	.....	ene.	.....	.....	.....	.....	.....	.....	ene.	.....	.....	h'vy	e.	fair.
Bk. Pawashick, N. 16° 31′, W. 49° 16′*†	30.40	772.1	75	23.9	86	e.	.....	.....	4	.....	2	.....	e.	.....	.....	mod.	e.	fine.
Bk. Peppina, N. 42° 56′, E. 16° 20′†	29.91	759.7	58	14.4	88	se.	.....	.....	4	.....	57	.....	sw.	.....	.....	mod.	se.	cloudy.†
Bk. Pilgrim, S. 40° 03′, E. 3° 00′*†	30.30	769.6	.....	.....	.....	ssw.	.....	.....	1	.....	8	.....	w.	0	0	long	wnw.	cloudy.
Schr. S. B. Hubbard, Jacksonville, Florida*†	29.69	754.1	74	23.3	.....	sw.	.....	.....	1	.....	2	.....	sw.	0	0	.....	.....	fine.
Bk. Stella, S. 39° 50′, W. 50° 34′*	29.81	757.2	65.3	18.5	93	calm	.....	.....	0	.....	3	.....	w.	0	0	r'gh	sw.	clear.
Bk. Sunbeam, N. 21° 21′, W. 50° 27′*†	30.19	766.8	77	25.0	91	e.	.....	.....	5	.....	0	.....	.....	0	0	mod.	e.	clear.
S. Wm. Woodbury, Bremerhaven, Germany*†	29.18	741.2	40	4.4	56	sse.	.....	.....	6	.....	10	.....	s.	.....	.....	.....	.....	



Data, as appearing in the International Bulletin of similar date.

Isobars in *black* exhibit atmospheric pressure at sea-level, and are charted from data as reported by the several observers.

Isotherms in *red* exhibit temperature of air, similarly charted.

Broken or dotted lines indicate that the lines so broken are doubtful.

Arrows, when charted, fly with the wind and exhibit wind-direction and force.

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W. B. Hazen

Brig. & Bvt. Maj. Gen'l.
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INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON MARCH 2, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours	.....	.....	30.29	769.3	69.4	20.8	80	ne.	.....	.....	4	.....	2	.....	.....	0	0	fair	Moiroud.
Algiers	.....	.....	30.13	765.2	57.2	14.0	87	w.	.....	.....	1	.....	10	.....	.....	0.748	19.0	covered	Nicolas.
La Calle	.....	.....	30.03	762.8	61.2	16.2	73	wnw.	.....	.....	2	.....	5	.....	.....	0.197	5.0	cloudy	Fonfrède.
Tunis	.....	.....	30.10	764.4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.30	769.6	52.7	11.5	51	nw.	.....	.....	4	.....	3	.....	.....	0	0	pretty fair	Dumas.
Tebessa	.....	.....	30.20	767.0	55.4	13.0	21	w.	.....	.....	5	.....	10	.....	.....	inap.	inap.	covered	Derché.
Geriville	.....	.....	.....	.....	51.4	10.8	36	nw.	.....	.....	6	.....	5	.....	.....	0.012	0.3	cloudy	Louchamp.
Laghouat	.....	.....	30.33	770.4	57.2	14.0	55	w.	.....	.....	3	.....	2	.....	.....	0	0	fair	Herbin.
Biskra	.....	.....	30.29	769.3	63.7	17.6	42	nnw.	.....	.....	4	.....	10	.....	.....	0	0	covered	Malau.
Australian.																			
Melbourne, Victoria	29.92	759.9	30.01	762.2	62.9	17.2	78	s.	4	1.8	.....	.....	10	.....	.....	0.10	2 5	dull	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.30	744.3	29.85	758.2	56.1	13.4	53	se.	.....	.....	1	.....	4	.....	.....	0.071	1.8	.....	Prof. Ivan Stozir.
Cracow, I. R Observatory	28.98	736.0	29.75	755.6	48.2	9.0	73	w.	4.3	1.9	.....	.....	7	.....	.....	0.457	11.6	.....	Dr. Wierzbiski.
Eperies	28.84	732.4	29.72	754.8	45.0	7.2	90	s.	.....	.....	2	.....	10 k	.....	n.	0.299	7.6	.....	Julius Mikolik.
Gratz	28.54	725.0	29.79	756.6	52.9	11.6	56	sw.	.....	.....	1	.....	5	.....	.....	0.303	7.7	.....	Andreas Rospini.
Hermannstadt	28.40	721.4	29.85	758.2	46.8	8.2	81	nnw.	.....	.....	3	.....	10	.....	.....	0	0	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.45	722.7	29.80	756.9	48.2	9.0	57	wnw.	.....	.....	2	.....	4	.....	.....	0.012	0.3	fair	The Staff.
Lemberg	28.70	729.0	29.69	754.2	45.5	7.5	90	sw.	.....	.....	1	.....	10	.....	.....	0.563	14.3	.....	Dr. T. Stanecki.
Pola	29.76	755.9	29.87	758.8	54.7	12.6	77	se.	.....	.....	1	.....	5	.....	.....	0.098	2.5	.....	I. R. Hydrographic Office.
Szathmar	29.29	744.0	29.75	755.7	44.6	7.0	88	se.	.....	.....	1	.....	10	.....	.....	0.134	3.4	.....	Joseph Midlinszky, S. J.
Szegedin	29.54	750.2	29.82	757.3	54.5	12.5	78	sw.	.....	.....	1	.....	5	.....	.....	0.110	2.8	.....	Karl Stancel.
Trieste	29.82	757.3	29.92	759.9	48.2	9.0	92	calm	.....	.....	0	.....	10	.....	.....	0	0	.....	Rieder.
Vienna	29.10	739.0	29.81	757.2	53.2	11.8	47	w.	.....	.....	2	.....	1	.....	.....	0.079	2.0	.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.11	739.4	29.21	741.9	41.0	5.0	95	e.	36	16.1	.....	.....	10	.....	.....	0.115	2.9	threatening.	W. Boswell.
Armagh, Observatory	28.87	733.3	29.13	739.9	38.6	3.7	95	sw.	6	2.7	.....	.....	10	.....	.....	.....	.....	raining	S. Call.
Bidston, Liverpool Obs'y	.....	.....	29.07	738.4	39.3	4.1	94	wsw.	26	11.6	.....	.....	10	.....	.....	.....	.....	raining	John Hartnup.
Bolton, Sharples	28.53	724.6	29.06	738.1	39.2	4.0	91	sw.	12	5.4	.....	.....	10	.....	.....	.....	.....	raining	Thomas Mackereth. [A.S.
Bradford, Yorkshire	28.68	728.5	29.07	738.4	42.1	5.6	85	sw.	.....	.....	3	.....	10	.....	.....	0.23	5.8	raining	J. McLandsborough, F. R.
Bridgetown, Barbadoes	29.97	761.2	30.00	762.0	83.0	28.3	64	no.	.....	.....	2	.....	8	.....	.....	.....	.....	overcast	Pvt. J. Surgenor, A. H.C.
Cardington	.....	.....	29.24	742.7	46.6	8.1	65	w.	.....	.....	7.0	.....	4	.....	.....	.....	.....	d. clouds	John McLaren.
Chatham, School M. E.	29.25	742.9	29.38	746.2	46.9	8.3	95	sw.	.....	.....	2	.....	5	.....	.....	.....	.....	d. clouds	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	29.21	741.9	29.43	747.5	44.2	6.8	67	w	.....	.....	4	.....	8	.....	.....	.....	.....	overcast	The Staff.
Fort Napier, Natal	27.75	704.8	29.97	761.2	73.2	22.9	71	se.	.....	.....	2	.....	7	.....	.....	.....	.....	.....	Pvt. E. K. Annis, A. H.C.
Free Town, Sierra Leone	29.70	754.4	29.93	760.2	89.0	31.7	66	w.	.....	.....	1	.....	3	.....	.....	.....	.....	blue sky	Sergt. John Robinson.
Galway, Queen's College	.....	.....	29.15	740.4	.....	.....	.....	nnw.	.....	.....	4	.....	10	.....	.....	0.04	1.0	overcast	J. O'Donaghue.
Gibraltar, Mediterranean	30.36	771.1	30.41	772.4	64.5	18.1	81	w.	.....	.....	2	.....	2	.....	.....	.....	.....	blue sky	Cpl. O. Baldwin.
Glasgow, Observatory	28.86	733.0	29.07	738.4	42.0	5.6	87	ene.	.....	.....	2	.....	10	.....	.....	.....	.....	overcast	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.19	741.4	29.36	745.7	49.2	9.6	56	sw.	.....	.....	6	.....	6	.....	.....	blank	blank	d. clouds	The Staff.
Guernsey	29.25	742.9	29.55	750.6	43.0	6.1	83	w.	.....	.....	3	.....	8	.....	.....	.....	.....	sleeting	A. Collenette, F. M. S.
Kew, Observatory	29.32	744.7	29.36	745.7	49.1	9.5	51	sw.	30	13.4	.....	.....	4	.....	.....	.....	.....	d. clouds	The Staff.
Leicester, Museum	28.92	734.6	29.17	740.9	45.8	7.7	62	sw.	.....	.....	1	.....	10	.....	.....	.....	.....	overcast	J. C. Smith.
Malta, Mediterranean	29.94	760.5	30.02	762.5	65.6	18.7	81	sw.	.....	.....	2	.....	2	.....	.....	.....	.....	blue sky	I. H. Whysall.
Nassau, Bahamas	30.12	765.0	30.17	766.3	73.0	22.8	100	nw.	.....	.....	1	.....	5	.....	.....	.....	.....	d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	28.65	727.7	29.17	740.9	43.7	6.5	69	sw.	.....	.....	5	.....	10	.....	.....	.....	.....	squally	John Mac Email.
Oxford, Radcliffe Obs'y	29.08	738.6	29.31	744.5	42.9	6.1	75	sw.	.....	.....	6	.....	9	.....	.....	.....	.....	threatening.	The Staff.
Plymouth	29.34	745.2	29.41	747.0	48.0	8.9	71	sw.	.....	.....	4	.....	5	.....	.....	.....	.....	d. clouds	John Merrifield.
Sandwick Manse, Orkneys	.....	.....	29.35	745.5	36.8	2.7	94	e.	40	17.9	.....	.....	10	.....	.....	.....	.....	showery	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.96	761.0	30.03	762.7	58.2	14.6	57	s.	.....	.....	1	.....	1	.....	.....	.....	.....	blue sky	W. H. Lyne.
Sheffield	28.83	732.3	29.11	739.4	44.0	6.7	77	sw.	.....	.....	3	.....	10	.....	.....	0.13	3.3	overcast	W. F. Cooper.
Silloth Rectory	28.98	736.1	29.01	736.8	42.8	6.0	92	e.	.....	.....	2	.....	10	.....	.....	0.210	5.3	raining	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	29.07	738.4	40.0	4.4	91	sw.	17	7.6	.....	.....	10	.....	.....	.....	.....	raining	R. S. J. Perry.
Straitfield Turgiss	29.12	739.6	29.33	745.0	50.0	10.0	64	w.	.....	.....	3-4	.....	5	.....	.....	.....	.....	showery	Rev. C. H. Griffiths, F. M. S.
Truro, Royal Institution	29.36	745.7	29.41	747.0	50	10.0	59	nw.	.....	.....	6	.....	4	.....	.....	.....	.....	d. clouds	W. Newcombe.
Valencia, Observatory	29.35	745.5	29.37	746.0	44.0	6.7	60	w.	25	11.2	.....	.....	8	.....	.....	blank	blank	squally	The Met'g'l Office.
Canadian.																			
Bathurst, N. B	.....	.....	.....	.....	42.0	5.6	.....	s.	2	0.9	.....	.....	10 n	.....	.....	inap.	inap.	rainy	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.08	764.0	30.12	765.0	36	2.2	92	so.	6	2.7	.....	5 c	5 s	calm	calm	0	0	fair	H. J. Cundall, C. E.
Chatham, N. B*	29.92	760.0	29.98	761.5	42	5.6	96	s.	1	0.4	.....	.....	10 n	.....	s.	0.11	2.8	light rain	G. A. Blair.
Cornwall, Ontario	29.74	755.4	29.94	760.5	39.2	4.0	91	nw.	.....	.....	1	.....	10 s	.....	.....	0.975	24.8	cloudy	James Smith, M. A.
Dalhousie, N. B	29.82	757.4	29.99	761.7	35.0	1.7	.....	e.	.....	.....	1	.....	10 n	.....	.....	inap.	inap.	raining	H. A. Johnson.
Father Point, Quebec*	29.85	758.2	29.88	758.9	35	1.7	92	w.	5	2.2	.....	.....	10 s	.....	calm	0.45	11.4	cloudy	J. McWilliams.
Fort Garry, Manitoba*	28.95	735.3	29.82	757.4	22	— 5.6	91	nw.	10	4.5	.....	0	0	.....	.....	0.060	1.5	clear	James Stewart.
Fredericton, N. B	29.92	760.0	29.98	761.5	41.0	5.0	92	s.	3	1.3	.....	.....	10 n	.....	.....	0.370	9.4	raining	Prof. Harrison.
Granton, Ontario	28.83	732.3	29.96	761.0	37.0	2.8	100	calm	0	0	.....	0	0	.....	.....	0.11	2.8	clear	James Grant.
Halifax, N. S*	30.05	763.3	30.19	766.8	34	1.1	88	se.	6	2.7	.....	2 cs	0	.....	.....	0	0	fair	A. Allison.
Hamilton, Ontario	29.54	750.3	29.94	760.5	38.7	3.7	86	sw.	.....	.....	1	4 c	0	.....	.....	0	0	smoky	Geo. Dickson, B. A.
Kingston, Ontario*	29.66	753.4	30.01	762.2	33	0.6	92	sw.	1	0.4	.....	.....	10 k	.....	w.	0.43	10.9	foggy	A. P. Knight, M. A.
Little Glace Bay, N. S	30.21	767.3	30.26	768.6	31.5	— 0.3	80	sw.	.....	.....	3	.....	10 n	.....	.....	0	0	cloudy	C. H. Rigby.
Montreal, Quebec*	29.73	755.1	29.94	760.5	40	4.4	92	w.	1	0.4	.....	.....	10 ks	.....	.....	1.79	45.5	cloudy	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.29	744.0	30.01	762.2	32	0.0	88	ne.	3	1.3	.....	2 k	2 ks	W.	W.	0.03	0.8	fair	Rev. R. Mosley.
Peterboro, Ontario	29.24	742.7	30.01	762.2	35.2	1.8	100	ne.	.....	.....	1	0	6 ks	.....	.....	0	0	fair	J. Dixon, B. A.
Port Dover, Ontario	29.25	742.9	29.96	761.0	38	3.3	91	s.	1	0.4	.....	2 ck	0	W.	.....	0.08	2.0	fair	H. Morgan.
Port Stanley, Ontario	29.29	744.0	29.95	760.7	35	1.7	89	e.	5	2.2	.....	0	0	.....	.....	0.30	7.6	clear	M. Payne.
Quebec, Quebec*	29.57	751.1	29.90	759.4	30	2.2	100	calm	.....	.....	0	.....	fg.	.....	.....	1.57	39.9	foggy	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.52	749.8	29.99	761.7	31	— 0.6	78	w.	2	0.9	.....	2 k	0	W.	.....	0	0	fair	W. H. McIntyre.
Saugeen, Ontario*	29.22	742.2	29.95	760.7	37	2.8	85	ne.	4	1.8	.....	4 cs	4 s	.....	.....	0	0	cloudy	
St. Andrews, N. B	29.88	758.9	29.93	760.2	40	4.4	94	s.	7	3.1	.....	.....	10 n	.....	.....	0.15	3.8	light rain	
St. John, N. B	29.82	757.4	29.99	761.7	42.0	5.6	100	s.	8	3.6	.....	.....	10 n	.....	.....	0.010	0.3	raining	G. Murdock, C. E.
St. Pierre, N. F	.....	.....	30.28	769.1	23.7	— 4.6	.....	sw.	.....	.....	1	.....	.....	.....	.....	0	0	.....	N. F. Land, Com't.
Stratford, Ontario	28.63	727.2	29.94	760.5	36.0	2.2	85	calm	0	0	.....	0	0	.....	.....	0.089	2.2	clear	C. I. Macgregor, M. A.
Sydney, C. B*	30.23	767.8	30.29	769.4	31	— 0.6	96	sw.	11	4.9	.....	.....	10 n	.....	.....	0	0	cloudy	T. C. Hill, C. E.
Toronto, Ontario*	29.58	751.3	29.98	761.5	36	2.2	96	e.	3	1.3	.....	2 cs	5 s	W.	W.	0.10	2.5	foggy	Magnetic Observatory.
Windsor, N. S	30.00	762.0	30.10	764.5	38.0	3.3	86	e.	18	8.0	.....	0	5 k	.....	.....	0.02	0.5	.....	Prof. W. R. Butler.
Woodstock, Ontario	28.85	732.8	29.94	760.5	37.6	3.1	86	s.	5	2.2	.....	3 cs	0	W.	.....	0.22	5.6	fair	Prof. Wolverton
Yarmouth, N. S*	29.93	760.2	30.00	762.0	45	7.2	89	s.	13	5.8	.....	10 k	0	sw.	.....	0	0	cloudy	Lt. F. E. Wilmot, R. N.
Sub-arctic.																			
St. Johns, Newfoundland	30.14	765.5	30.40	772.1	31	— 0.6	.....	sw.	1	0.4	.....	0	0	.....	.....	0	0	.....	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.14	765.5	30.17	766.3	67.5	19.7	85	ne.	9.3	4.2	.....	.....	10 s	.....	.....	0	0	hazy	John Duthie.
Cape Town, O. G. H. Obs'y	29.89	759.2	29.93	760.2	80.3	26.8	44	ssw.	22	9.8	.....	0	1	.....	.....	0	0	.....	The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
CHINESE (*Sub-series*).																			
Hankow																0.03	0.8		N. Titoushkin.
Zi-Ka-Wei, near Shanghai.	30.34	770.7	30.37	771.4	37.4	3.0	66	n.	4.5	2.0			10			0.087	2.2	covered	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	29.51	749.5	29.56	750.7	33.8	1.0	94	se.	15.7	7			10					snowing	Oversergent Fischer.
Fanöe	29.38	746.3	29.40	746.8	39.6	4.2	100	s.			4		10					raining	Overloerer Lauridsen.
Godthaab, Greenland	29.08	738.5	29.12	739.6	29.1	— 1.6		s.			8		10					snowing	S. Kleinschmidt.
Stykkisholm, Iceland	29.71	754.6	29.75	755.7	30.2	— 1.0	96	se.			2		8						A. O. Thorlacius.
Thorshavn	29.63	752.6	29.67	753.5	38.8	3.8	55	ene.	22.4	10			10						Overloerer Bergh.
Vestervig	29.38	746.3	29.47	748.6	30.7	— 0.7	98	ene.			7		10					snowing	Loearer Oesterbol.
FRENCH.																			
Agen, Normal School	29.25	743.0	29.92	760.0	45.3	7.4	88	sw.			1		k, kn		wsw.	0.169	4.3		M. Labroue, Director.
Alençon, Normal School	29.08	738.6	29.63	752.6	46.4	8	64	s.			2		kn		ne.	0.087	2.2		M. Nicot, Director.
Arras, Engineer School	29.28	743.7	29.54	750.2	48.7	9.3	70	sw.			8	ck	0	w.		0.004	0.1		M. Klein, Commandant.
Avignon, Normal School	29.84	758.0	29.92	760.0	53.6	12	54	se.			1		5		w.	0	0	cloudy	M. Giraud, Director.
Bar-sur-Seine	29.18	741.2	29.74	755.3	49.1	9.5	56	s.			1		6		wsw.	0.020	0.5	cloudy	M. Saillard, Director.
Beauvais, Normal School	29.34	745.3	29.61	752.0	51.4	10.8	63	sw.			2		5		w.	0.126	3.2	cloudy	M. Frère Eugène Mari.
Besançon, Normal School	28.85	732.8	29.74	755.4	48.2	9	73	s.			1		n		s.	0	0		M. Gobin, Director.
Bordeaux, Observatory	29.56	750.8	29.82	757.5	48.4	9.1	64	wnw.			1		8		w.	0.323	8.2	very cloudy	M. Rayet, Director.
Bourges, Normal School	29.16	740.6	29.71	754.7	48.2	9	65	s.			2	cs	0	s.		0.106	2.7		M. Postel, Director.
Brest, Naval Observatory	29.40	746.8	29.65	753.0	46.8	8.2	77	w.			3		8		w.	0.110	2.8		M. de Kermaree, Dir.
Caen, Normal School	29.46	748.3	29.54	750.2	50.0	10	64	ssw.			2		5		ssw.	0.138	3.5	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.24	742.7	29.56	750.8	48.7	9.3	63	sw.			2		5	sw.	sw.	0.079	2.0	cloudy	M. Jadot, Director.
Charleville, Normal School	29.13	739.9	29.64	752.9	46.8	8.2	70	s.			1		5			0.12	3.	½ covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.43	722.2	29.79	756.7	48.9	9.4	56	s.			2		8		sw.	0.591	15.0	¾ covered	M. Alluard, Director.
Cluny, Normal School	28.90	734.1	29.76	755.8	46.4	8	81	w.			3		4		nw.	0.150	3.8		M. de Villemontée, Dir.
Commercy, Normal School	28.88	733.5	29.74	755.5	47.3	8.5	50	sw.			4		5	sw.	sw.	0.20	5.	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.32	693.9	29.87	758.8	42.1	5.6	85	sw.			1		2 k		w.	0	0		M. Jeangirard, Director.
Gréasque, du. Rhone	28.80	731.4	29.93	760.3	48.4	9.1	56	w.			1		8		w.	0	0		M. Kina, Director.
Grenoble, Normal School	29.08	738.7	29.85	758.3	50.9	10.5	35	w.			1		kn		sw.	0	0		M. Ablard, Director.
Guéret, Normal School	28.20	716.3	29.81	757.1	41.5	5.3	94	sw.			3		n		sw.	0.362	9.2		M. Rivoire, Director.
Lamballe, Normal School	29.32	744.8	29.60	751.8	40.1	4.5	90	sw.			6		8		sw.	0.16	4.	raining	M. Ollitrault, Director.
Lescar, Normal School	29.40	746.7	29.97	761.1	50.0	10.0	62	wnw.			4		10			0	0	covered	M. Chauvin, Director.
Lorient, Naval Observatory	29.55	750.5	29.65	753.1	48.2	9.0	73	wsw.			0		8		w.	0.138	3.5	¾ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.79	731.2	29.85	758.2	50.9	10.5	55	s.			2		10		ssw.	0	0	covered	M. André, Director.
Mans, Normal School	29.36	745.8	29.67	753.7	46.4	8	72	ssw.			4		8		sw.	0.098	2.5	very cloudy	M. Piboen, Director.
Marseille, Observatory	29.68	753.8	29.95	760.7	51.4	10.8	65	wnw			1		10		wnw.	0	0		M. Stephan, Director.
Montlouis l'Instituteur	24.63	625.7	29.48	748.7	35.2	1.8	59	w.	15.0	6.7			8		sw.	0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.83	757.6	29.96	760.9	55.0	12.8	52	w.			3		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	28.94	735.1	29.73	755.2	46.4	8	70	s.			2	0	8 kn		sw.	0.346	8.8	very cloudy	M. Hasse, Director
Nantes, Observatory	29.53	750.1	29.72	754.8	47.3	8.5	81	s.			0–1		10		w.	0.173	4.4	light rain	M. Larocque, Director.
Perpignan, Observatory	29.85	758.1	29.96	760.9	54.3	12.4	49	nw.	3.8	1.7			4	w.	wnw.	0.185	4.7		Dr. Fines, Director.
Pic-du-Midi, Summit	20.94	531.9			12.2	—11.0		nw.			2		10		nw.	0.461	11.7	snowy	Gen'l de Nansouty, Dir.
Privas, Normal School	28.84	732.4	29.91	759.8	47.5	8.6	65	s.			1		5	sw.	s.	0	0	cloudy	M. Taillieu.
Puy de Dôme Obs'y, Summit	24.82	630.5			28.2	— 2.1	100	wsw.			8		10			0.709	18.0	foggy	M. Alluard, Director.
Rochefort, Naval Obs'y	29.69	754.1	29.72	754.9	46.6	8.1	89	w.			2		10			0.335	8.5	raining	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.48	748.9	29.70	754.4	43.2	6.2	77	nw.			1		10			0.091	2.3	covered	M. Mouillot, Director.
Rodez, Normal School	27.73	734.3	29.93	760.3	40.3	4.6	90	nw.			1		10		se.	0.12	3.	snowing	M. Serger, Director.
Rouen, Normal School	29.54	750.3	29.59	751.5	51.1	10.6	51	sw.			1		2			0.047	1.2	slightly cl'dy	M. Platrier, Director.
Saint Maur, Observatory	29.59	749.2	29.66	753.4	48.4	9.1	61	ssw.			3		8		sw.	0.083	2.1		M. Renou, Director.
Toulouse, Observatory	29.26	743.2	29.98	761.6	47.8	8.8	78	nw.			1		10			0.059	1.5	stormy	M. Bailland, Director.
Versailles, Observatory	29.15	740.3	29.64	752.8	48.6	9.2	61	sw.			3					0	0		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.37	745.9	29.66	753.3	48.6	9.2	62	sw.			3		9	wsw.	sw.	0.071	1.8		M. Marié Davy, Director
GERMAN.																			
Bamberg	28.89	733.9	29.74	755.4	46.4	8.0	50	sw.			3	0	5k		sw.	0.059	1.5		Prof. Dr. Hoh.
Berlin	29.43	747.5	29.60	751.9	52.3	11.3	49	sw.			4		5			0.181	4.6		Prof. Dr. Arndt.
Breslau	29.20	741.7	29.72	755.0	50.9	10.5	47	w.			2		7			0.004	0.1		Royal University Obs'y.
Carlsruhe	29.34	745.1	29.78	756.4	44.2	6.8	84	sw.			2		9	sw.		0.035	0.9	raining	Albert Senz.
Cassel	28.88	733.5	29.59	751.6	47.8	8.8	60	s.			4		8	sw.		0	0		Dr. H. Möhl.
Frankfort on the Main	29.34	745.3	29.71	754.5	48.2	9.0	65	sw.			3		6			0.063	1.6		Physical Society.
Friedrichshafen	28.37	720.5	29.81	757.1	48.2	9.0	62	wsw.			2		3	wsw.		0.220	5.6		Wilhelm, Chief Tel.
Hamburg	29.44	747.8	29.54	750.2	45.7	7.6	76	sw.			4		10			0.240	6.1		E. Preller.
Kiel	29.45	748.0	29.47	748.4	44.2	6.8	83	sw.			2		10			0.311	7.9		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.26	743.2	29.67	753.7	51.4	10.8	51	sw.			5		7	sw.		0.067	1.7		H. Leppig, Asst.
Magdeburg	29.43	747.5	29.62	752.3	48.7	9.3	65	sw.			2	0	7 k		sw.	0	0		Dr. Assmann.
Memel	29.58	751.2	29.62	752.3	39.4	4.1	90	s.			2	8 cs	0						Issermann.
Munich	27.98	710.6	29.82	757.5	47.3	8.5	41	nw.			4		3	nw.		0	0		Central Station
Neufahrwasser	29.58	751.3	29.60	751.7	50.5	10.3	66	ssw.			2		5	sw.		0.047	1.2		A. Lothes.
Neustadt, Palatinate	29.20	741.6	29.72	754.9	49.6	9.8	59	s.			5		3	w.		0	0		Dickmether.
Stuttgart	28.83	732.3	29.73	755.1	46.8	8.2	70	sw.			2		5	w.		0.035	0.9		Prof. Dr. Schoder.
Wustrow	29.52	749.9	29.55	750.5	42.3	5.7	88	sw.			3		10 8			0	0		Profs. Brandes & Reimer.
GREEK.																			
Athens	29.73	755.2	30.12	765.1	64.0	17.8		s.			1.5		2			0	0	misty	Schmidt & Wourlisch.
INDIAN.																			
Bellary	28.39	721.1			92.3	33.5	13	se.	3.5	1.6			0			0	0	blue sky	
Kurrachee	29.91	759.6	29.96	760.9	75.9	24.4	69	wsw.	29	13.0			0			0	0	misty	
Deesa	29.39	746.5	29.87	758.6	79.2	26.2	33	wsw.	14.9	6.7			0			0	0	blue sky	
Bombay	29.93	760.3	29.97	761.3	78.2	25.7	61	nw.	15	6.7			0			0	0	blue sky	
Poona, Yarrowda	28.04	712.1	29.89	759.1	81.2	27.3	36	wnw.	25	11.2			0			0	0	blue sky	
Belgaum	27.37	695.2	29.89	759.2	80.7	27.1	22	sw.	9	4.0			0			0	0	blue sky	
Lahore	29.04	737.9	29.80	756.9	68.7	20.4	56	w.	5.8	2.6			4		s.	0.03	0.8	hailing	
Roorkee	28.90	734.1	29.81	757.1	76.0	24.4	34	sw.	4.0	1.8			4			0	0		
Agra	29.25	743.0	29.82	757.4	79.9	26.6	35	sw.	5.0	2.2			7		s.	0	0		
Nagpur	28.78	731.1	29.80	757.0	91.7	33.2	17	sw.	5.0	2.2			0			0	0	blue sky	
Jubbulpore	28.49	723.7	29.83	757.7	86.8	30.4	22	n.	1.6	0.7			0			0	0	blue sky	
Lucknow	29.46	748.3	29.83	757.7	88.1	31.2	23	sso.	2.5	1.1			0			0	0	blue sky	
Allahabad	29.52	749.9	29.83	757.8	84.0	28.9	34	calm	2.0	1.2			0			0	0	blue sky	
Patna	29.69	754.2	29.88	758.9	82.0	27.8	60	e.	5.0	2.2			2	e.	e.	0	0		
Hazaribagh	27.83	707.0	29.83	757.7	81.8	27.7	31	nw.	7.6	3.4			0			0	0	blue sky	
Cuttack	29.78	756.3	29.86	758.4	88.2	31.2	33	ssw.	2.5	1.1			1			0	0	blue sky	
Calcutta, Alipore	29.83	757.6	29.85	758.2	84.8	29.3	50	s.	5.0	2.2			0			0	0	blue sky	
Dhubri	29.74	755.3	29.86	758.4	77.1	25.1	68	calm	9.6	4.3			0			0	0	blue sky	
Chittagong	29.84	757.9	29.93	760.2	77.5	25.3	66	wsw.	1.4	0.6			7			0	0	d. clouds	
Sibsagar	29.59	751.5	29.93	760.3	69.0	20.6	75	ese.	5.1	2.3			5		e.	0.08	2.0	d. clouds	
Jeypore	28.39	721.2	29.85	758.2	74.7	23.7	25	W.	6.5	2.9			1			0	0	blue sky	
Zanzibar, Africa	29.85	758.2			86.2	30.1	60	ne.	11.5	5.1			2			0	0	d. clouds	
Trichinopoly	29.65	753.1			91.3	32.9	32	ese.					1			0	0	blue sky	
ITALIAN.																			
Udine	29.49	749.0	29.90	759.5	49.1	9.5	78	s.	1.3	0.6			9			0.945	24.0		Prof. Giovanni Clodig.
Milan	29.35	745.5	29.87	758.8	49.5	9.7	78	se.	5.6	2.5			10	sse.		0	0		Prof. Schiaparelli.
Padua	29.59	751.5	29.70	754.3	46.2	7.9	83	ne.	1.8	0.8			10	ne.		0.343	8.7		Prof. Dott. Lorenzoni.
Moncalieri	28.91	734.3	29.83	757.7	49.5	9.7	65	n.	1.3	0.6			8	ne.		0	0		Prof. P. F. Denza.
Genoa	29.63	752.5	29.82	757.4	57.7	14.3	60	se.	8.7	3.9			4	e.		0	0		Prof. G. M. Garibaldi.
Mondovi	27.87	707.8	29.81	757.1	47.3	8.5	71	ne.			4		1	sw.		0	0		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
ITALIAN.—Continued.																			
Pesaro	29.79	756.6	29.84	757.8	60.3	15.7	40	sw.	10.5	4.7	.....	.....	1	.....	.....	0	0	.....	Prof. Luigi Guidi.
Florence	29.64	752.9	29.90	759.4	58.6	14.8	48	sw.	.....	.....	4	.....	5	wsw.	.....	0.024	0.6	.....	Prof. Costantino Pitter.
Leghorn	29.77	756.1	29.85	758.3	58.5	14.7	51	sw.	13.6	6.1	.....	.....	3	.....	.....	0	0	.....	Prof. P. Monte.
Rome	29.77	756.2	29.95	760.6	59.7	15.4	51	ssw.	16.8	7.5	.....	.....	6	.....	.....	0	0	.....	Prof. P. S. Ferrari.
Lecce	29.73	755.3	29.99	761.8	64.2	17.9	54	w.	12.5	5.6	.....	.....	6	w.	.....	0	0	.....	Prof. G. de Giorgi.
Cosenza	29.15	740.4	30.05	763.3	55.8	13.2	75	wsw.	2.5	1.1	.....	.....	9	sw.	.....	0.016	0.4	.....	Prof. D. Conti.
Cagliari	29.79	756.6	29.98	761.5	61.3	16.3	71	s.	.....	.....	4	.....	6	w.	.....	0	0	.....	Prof. A. Pacinotti.
Palermo	29.81	757.1	30.06	763.5	66.2	19.0	40	wsw.	9.4	4.2	.....	.....	10	.....	.....	0	0	.....	Prof. G. Ciaccíatore.
Syracuse	29.95	760.8	30.00	761.9	66.6	19.2	80	ese.	8.7	3.9	.....	.....	8	sw.	.....	0	0	.....	Prof. Vincenzo Guiliano.
Sub-series.																			
Naples, S. R	29.47	748.6	30.00	761.9	58.3	14.6	56	w.	0	0	.....	.....	6	nw.	.....	0.035	0.9	.....	Prof. T. Brioschi.
Stelvio	21.85	555.0	.....	.....	22.6	— 5.2	68	sw.	.....	.....	4	.....	10	.....	.....	0	0	misty	Prof. P. F. Denza.
Valdobbia	21.88	555.7	.....	.....	24.4	— 4.2	71	n.	.....	.....	2	.....	8	.....	.....	0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Aomori	30.09	764.3	30.12	765.0	26.5	— 3.1	90	ssw.	5.5	2.5	.....	.....	10 n	.....	.....	.....	.....	light snow..	K. Ogawa.
Hakodate	30.07	763.8	30.08	764.0	30.0	— 1.1	68	wnw.	9.0	4.0	.....	.....	10	.....	wnw.	0	0	overcast	
Hiroshima, I. M. Obs'y	30.02	762.5	30.03	762.7	37.4	3.0	86	ssw.	2.5	1.1	.....	1 ck	0	.....	.....	0	0	clear	K. Sasaki.
Kanazawa	30.02	762.5	30.13	765.3	33.9	1.1	73	s.	2.3	1.0	.....	0	0	.....	.....	0	0	clear	S. Endo.
Kioto	29.89	759.2	30.08	764.0	31.5	— 0.3	79	nw.	1.3	0.6	.....	0	2 s	.....	.....	0	0	clear	M. Tojima.
Kochi	30.03	762.7	30.05	763.3	42.9	6.1	83	nw.	4.5	2.0	.....	ck	7 s	.....	.....	0.005	0.1	cloudy	
Nagasaki, I. M. Obs'y	29.88	758.9	30.09	764.3	43.8	6.6	85	n.	0.6	0.3	.....	0	0	.....	.....	0	0	clear	S. Takehayashi.
Niigata	30.13	765.3	30.17	766.3	30.0	— 1.1	95	sw.	1.8	0.8	.....	4 ck	0	.....	.....	0.170	4.3	fair	
Nobiru	30.13	765.3	30.15	765.8	27.9	— 2.3	75	nnw.	7.9	3.5	.....	0	0	.....	.....	0	0	clear	H. Midzushina.
Supporo	.....	.....	.....	.....	19.9	— 6.7	68	nw.	3.0	1.3	.....	.....	10	.....	.....	0	0	covered	
Tokei Obs'y, Yeddo	30.05	763.3	30.12	765.0	35.4	1.9	72	ne.	4.9	2.2	.....	4ck;cs	0	sw.	.....	0	0	fair	The Staff.
Wakayama	30.00	762.0	30.05	763.3	41.7	5.4	64	n.	5.1	2.3	.....	8 ck	0	wsw.	.....	0	0	cloudy	Y. Kuwamura.
MAURITIUS.																			
Mauritius Observatory	29.70	754.4	29.89	759.2	75.6	24.2	88	ese.	16.0	7.2	.....	.....	10 n	.....	ese.	0.25	6.3	drizzling	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.66	601.0	29.88	758.9	53.6	12.0	80	se.	.....	.....	.....	0	0	.....	.....	0	0	clear	Vicente Fernandez.
Leon	24.39	619.5	30.10	764.4	55.0	12.8	73	nw.	0	0	.....	0	0	.....	.....	0	0	foggy	Prof. M. Leal.
Mazatlan	29.72	755.0	29.99	761.6	63.0	17.2	89	e.	.....	.....	.....	0	0	.....	.....	0	0	clear	F. Quijano, C. E.
Mexico, Central Obs'y	23.11	586.9	30.20	767.1	50.9	10.5	68	calm	0	0	.....	0	0	.....	.....	0	0	fine	M. Tena, M. D.
Morelia	24.32	617.7	30.49	774.3	55.4	13.0	81	ne.	.....	.....	2	0	0	.....	.....	0	0	blue sky	The Staff.
Pabellon, Aguascalientes	24.00	609.6	30.11	764.8	48.7	9.3	53	calm	0	0	.....	0	0	.....	.....	0	0	.....	M. V. de Leon, M. E.
Puebla, Catholic Institute	23.43	595.1	30.28	769.1	47.8	8.8	83	calm	0	0	.....	0	0	.....	.....	0.004	0.1	clear	Prof. P. Spina.
San Luis Potosi	24.18	614.1	30.19	766.7	49.6	9.8	50	se.	0.9	0.4	.....	1	5	w.	w.	0	0	½cloudy	G. Barroeta, M. D.
Vera Cruz	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Zacatecas	22.49	570.3	30.13	765.0	51.3	10.7	58	w.	7.2	3.2	.....	0	0	.....	.....	0	0	fine	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.48	748.9	29.48	748.9	47.8	8.8	.....	sse.	.....	.....	5	.....	.....	.....	.....	0.260	6.6	.....	
Groningen	29.41	747.0	29.47	748.4	46.9	8.3	.....	sw.	.....	.....	5	.....	.....	.....	.....	0.201	5.1	.....	
Helder	29.37	746.1	29.37	746.1	45.3	7.4	.....	ssw.	.....	.....	6	.....	.....	.....	.....	0.028	0.7	.....	
Hellevoetsluis	29.45	748.0	29.45	748.0	47.3	8.5	72	sw.	.....	.....	4	.....	.....	.....	.....	0.240	6.1	.....	
Utrecht	29.45	748.1	29.50	749.3	48.4	9.1	69	ssw.	.....	.....	5	.....	5	.....	.....	0.256	6.5	cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.48	748.7	29.54	750.3	35.2	1.8	31	w.	4	2	.....	.....	0	.....	.....	0	0	.....	
Brono	29.85	758.1	29.89	759.1	27.7	— 2.4	75	calm	0	0	.....	.....	0	.....	.....	0	0	.....	
Christiania	29.62	752.4	29.78	756.3	23.9	— 4.5	56	ne.	2	1	.....	.....	8	.....	.....	0	0	.....	
Gjæsvær	29.73	755.2	29.76	755.8	25.2	— 3.8	.....	nnw.	.....	.....	4	.....	9	.....	.....	.....	.....	.....	
Lodingen	29.83	757.7	29.88	758.9	27.7	— 2.4	85	s.	.....	.....	1	.....	10	.....	.....	0	0	.....	
PORTUGUESE.																			
Angra, Azores	.....	.....	.....	.....	57.2	14.0	69	ssw.	7.4	3.3	.....	.....	4	.....	.....	0	0	.....	Dr. J. A. Sampaio.
Campo Major	29.30	744.1	30.32	770.2	51.1	10.6	80	w.	9.4	4.2	.....	.....	10	wsw.	.....	0.047	1.2	.....	Dr. A. M. R. dos Santos.
Funchal, Maderia	30.47	773.9	30.56	776.2	63.9	17.8	41	ene.	2.5	1.1	.....	.....	3	.....	.....	0	0	.....	Capt. D. A. de Cunha.
Lisbon, Observatory	29.90	759.4	30.26	768.7	55.6	13.1	64	w.	16.8	7.5	.....	.....	6	.....	.....	0.016	0.4	..	The Staff.
Ponta Delgada, Azores	30.56	776.1	30.63	777.9	61.9	16.6	64	calm	0	0	.....	.....	4	.....	.....	0	0	.....	
Saint Paul de Loando	29.70	754.4	29.90	759.4	84.2	29.0	83	wsw.	1.8	0.8	.....	.....	2	sse.	.....	0	0	.....	
Serra da Estrella	25.31	642.8	30.23	767.9	31.5	— 0.3	100	wnw.	.....	.....	6	.....	10	.....	.....	.....	.....	fog & sleet	
RUSSIAN.																			
Akmolinski	29.35	745.5	30.55	776.0	6.3	—14.3	100	sw.	4	2	.....	5 cs	0	.....	.....	0	0	.....	Major K. Lasarew.
Archangel	29.50	749.2	29.52	749.7	15.1	— 9.4	78	wsw.	18	8	.....	.....	10	.....	.....	0	0	.....	Capt. Sseliwerstow.
Astrakhan	30.34	770.7	30.26	768.6	33.3	0.7	70	se.	13	6	.....	0	3 s	.....	.....	0	0	light clouds	Capt. Wisganow.
Barnaul	30.02	762.4	30.56	776.2	19.6	— 6.9	86	sw.	4	2	.....	.....	10	.....	.....	0.004	0.1	.....	Meteorological Obs'y.
Dorpat	29.50	749.4	29.76	755.9	25.9	— 3.4	89	e.	9	4	.....	.....	10 n	.....	.....	0.079	2.0	.....	Observatory.
Ekaterinburg	29.35	745.4	30.37	771.4	25.7	— 3.5	43	w.	18	8	.....	10ck	0	.....	.....	0	0	light clouds	Meteorological Obs'y.
Kasan	29.95	760.7	30.24	768.1	18.3	— 7.6	84	sse.	22	10	.....	.....	10	.....	.....	0	0	.....	Observatory.
Kertch	29.99	761.7	30.01	762.2	45.7	7.6	91	sse.	4	2	.....	0	5 ks	.....	.....	0	0	.....	Lagorio & Sastyrea.
Kieff	29.20	741.6	29.84	757.9	44.4	6.9	84	se.	7	3	.....	cs	10ks;n	.....	.....	0	0	.....	Observatory.
Lugan	29.83	757.7	30.04	763.0	44.1	6.7	76	sse.	9	4	.....	.....	9	.....	.....	0.008	0.2	.....	Meteorological Obs'y.
Moscow	29.32	744.7	29.81	757.2	36.0	2.2	93	wsw.	7.8	3.5	.....	.....	10 s	.....	.....	0	0	.....	Meteorological Obs'y.
Nikolaiev	29.93	760.2	30.00	762.0	42.1	5.6	94	s.	9	4	.....	.....	10 n	.....	.....	0	0	.....	Capt. Kurdakow.
Nikolaievsk, on the Amoor	29.09	754.2	29.78	756.4	18.7	— 7.4	68	calm	0	0	.....	.....	0	.....	.....	0	0	.....	Lieut. Iwanow.
Pekin, China	30.19	766.8	30.33	770.4	37.2	2.9	61	sw.	4	2	.....	0	3 ks	.....	.....	0	0	.....	Physical Observatory.
St. Petersburg	29.79	756.7	29.81	757.1	24.1	— 4.4	77	nw.	11	5	.....	.....	9 ks;n	.....	.....	0	0	.....	Central Physical Obs'y.
Tashkend, Laboratory	28.89	733.8	30.59	776.9	25.9	— 3.4	78	calm	0	0	.....	.....	10	.....	.....	0	0	.....	Teich, A. M.
Tiflis	28.68	728.4	30.10	764.6	54.3	12.4	22	nne.	22	10	.....	4cs	0	.....	.....	0	0	.....	Physical Observatory.
Vladivostok	30.01	762.3	30.08	764.0	13.1	—10.5	58	calm	0	0	.....	0	0	.....	.....	0	0	.....	
Warsaw	29.25	743.0	29.68	753.8	48.6	9.2	75	wsw.	4	2	.....	c	9 ks	.....	.....	.....	.....	.....	Astronomical Obs'y.
Wilna	29.27	743.4	29.70	754.3	38.3	3.5	90	se.	2	1	.....	.....	10	.....	.....	0.177	4.5	heavy cl'ds	Berg, Assistant.
Yeniseisk	30.34	770.5	30.65	778.4	22.0	— 5.2	78	wsw.	2	1	.....	.....	10	.....	.....	0.004	0.1	snowing	M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	29.85	758.2	29.95	760.8	58.3	14.6	38	w.	11.2	5.0	.....	.....	4	.....	.....	0	0	.....	Antonio Rave, Director.
Bilbao, Met. Obs'y	29.97	761.1	30.02	762.6	51.8	11.0	69	n.	3.6	1.6	.....	.....	10	.....	.....	0.063	1.6	covered	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.06	687.4	30.11	764.9	41.5	5.3	72	w.	15.4	6.9	.....	.....	10	.....	.....	0.079	2.0	raining	Domingo Martin.
Madrid, Royal Obs'y	27.91	708.9	30.19	766.9	46.9	8.3	71	sw.	28.0	12.5	.....	0	3	.....	.....	0.126	3.2	cloudy	The Staff.
Murcia, Met. Obs'y	30.05	763.2	30.16	766.1	60.8	16.0	45	n.	10.3	4.6	.....	0	1	.....	.....	0	0	almost clear	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.15	740.4	30.06	763.5	52.9	11.6	73	w.	19.9	8.9	.....	.....	9	.....	.....	0.272	6.9	almost cov'd	R. Gil Vallanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I	30.02	762.5	30.08	764.1	72.5	22.5	84	e.	1.8	0.8	.....	8cp	1 s	wnw.	.....	0	0	fair	Benito Vines, S. J.
Manilla, Philippine Islands	29.85	758.3	29.91	759.8	79.1	26.2	75	se.	4.4	2.0	.....	o	s.	.....	.....	0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.37	771.4	30.47	774.0	58.8	14.9	53	wnw.	9.3	4.2	.....	o	4	.....	w.	0	0	.....	Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	29.99	761.8	30.08	764.1	75.2	24.0	92	e.	9.6	4.3	.....	4 k	4 k	e.	e.	0.059	1.5	cloudy	Manuel Maeu.
Tuguegarao, Philippine Id's	29.81	757.2	29.94	760.5	76.5	24.7	73	nnw.	7.8	3.5	.....	o	o	.....	.....	0	0	clear	José L. Yrastorza.
SWEDISH																			
Haparanda	29.74	755.5	29.78	756.5	22.6	— 5.2	80	n.	.....	.....	2	.....	0	.....	.....	0	0	.....	
Umea	29.79	756.7	29.84	758.0	25.9	— 3.4	82	n.	.....	.....	2	.....	0	.....	.....	0	0	.....	
Hernosand	29.81	757.1	29.86	758.4	24.3	— 4.3	66	nw.	.....	.....	2	.....	0	.....	.....	0	0	.....	
Stockholm	29.56	750.9	29.74	755.4	26.1	— 3.3	74	ne.	.....	.....	2	.....	8	.....	.....	0	0	.....	
Wisby	29.54	750.2	29.60	751.7	30.2	— 1.0	88	ese.	.....	.....	4	.....	10	.....	.....	0.094	2.4	snowing	
Sub-series.																			
Upsala	29.67	753.5	29.75	755.7	26.6	— 3.0	65	nne.	11.2	5.0	.....	.....	10	.....	.....	0.004	0.1	.....	S. G. Fineman.
SWISS.																			
Geneva	28.41	721.6	29.85	758.1	50.4	10.2	51	sw.	.....	.....	4	.....	.....	.....	.....	0.031	0.8	.....	The Observatory.

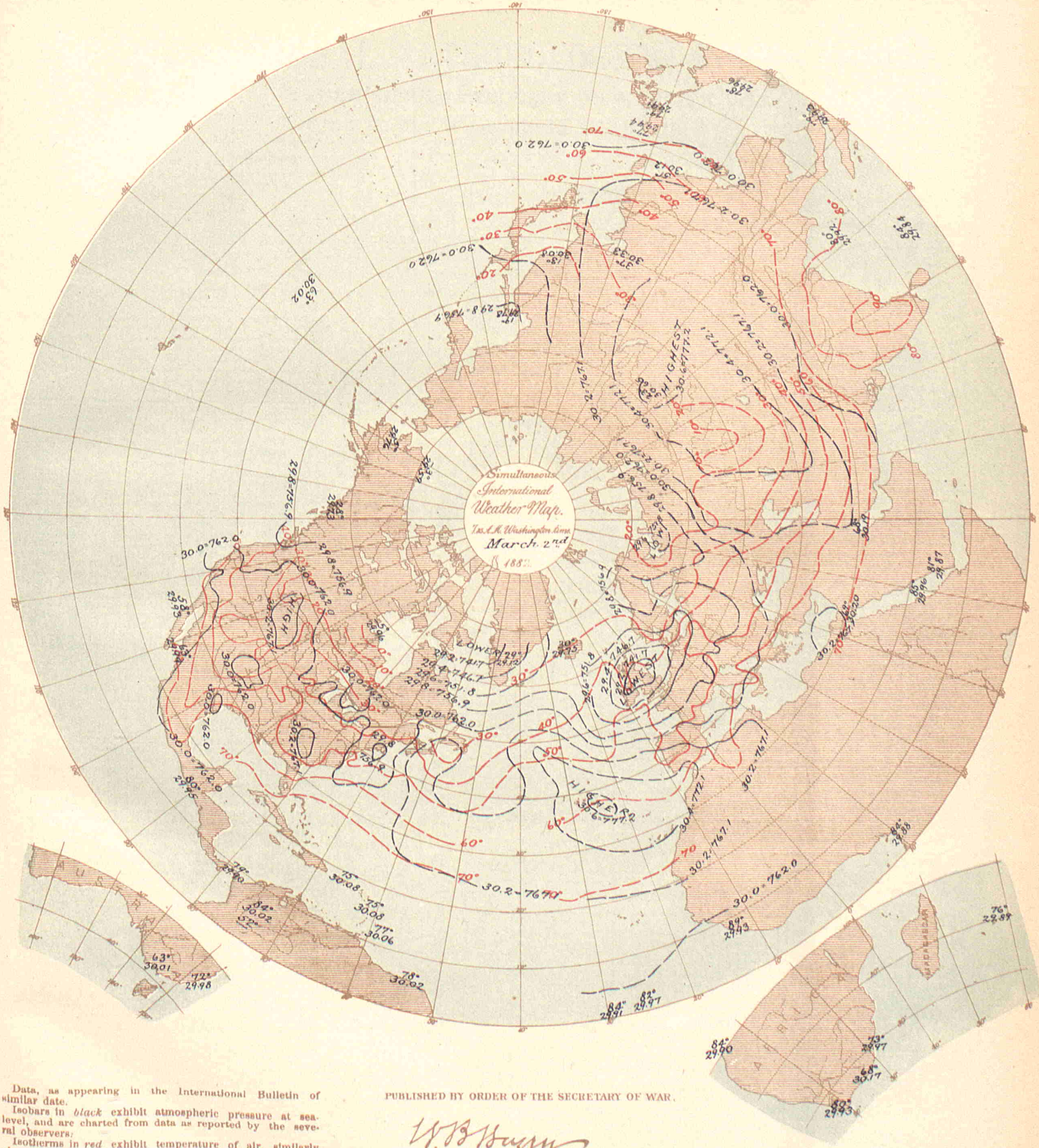
STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
TURKISH.																			
Constantinople	.....	.....	30.07	763.7	59.2	15.1	59	sw.	14	6.5	.....	.....	2	.....	sw.	0	0	.....	The Observatory.
Valona	.....	.....	30.06	763.4	64.0	17.8	.....	sw.	.....	.....	1	.....	10	.....	.....	0	0	covered	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	30.17	766.3	64.0	17.8	69	nw.	.....	.....	1	0	1 k	.....	.....	0	0	.....	Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	29.86	758.4	29.95	760.7	47	8.3	74	ne.	4	1.8	.....	.....	10 s	.....	.....	0.51	13.0	cloudy	J. O. Barnes.
Alpena, Michigan	29.34	745.2	30.04	763.0	32	0.0	88	n.	4	1.8	.....	5 c	0	w.	.....	0	0	fair	Jas. J. Fitzgerald.
Atlanta, Georgia	29.00	736.6	30.21	767.3	46.5	8.1	88	nw.	9	4.0	.....	2 c	0	calm	.....	0	0	clear	H. Hall.
Atlantic City, New Jersey	29.88	758.9	29.89	759.2	49	9.4	86	nw.	12	5.4	.....	3 ck	5 s	n.	s.	0.44	11.2	cloudy	Jas. M. Watson.
Augusta, Georgia	30.02	762.5	30.22	767.6	47.0	8.3	86	calm	0	0	.....	5 c	sk.	.....	.....	0	0	fair	John Healy.
Baltimore, Maryland	29.98	761.5	30.03	762.7	50	10.0	64	n.	4	1.8	.....	0	hz.	.....	.....	0.32	8.1	clear	Robert Seyboth.
Barnegat, New Jersey	29.87	758.7	29.89	759.2	48.3	9.1	82	nw.	20	8.9	.....	.....	10 s	.....	nw.	0.61	15.5	cloudy	Chas. F. Merritt.
Bismarck, Dakota	28.13	714.5	30.05	763.3	31	— 0.6	71	nw.	16	7.2	.....	0	0	.....	.....	0	0	clear	Cyrus Cramer.
Boise City, Idaho	27.40	695.9	30.06	763.5	34	1.1	82	ne.	4	1.8	.....	0	2 s	.....	calm	0	0	clear	B. E. Light.
Boston, Massachusetts	29.63	752.6	29.79	756.7	46.5	8.1	100	nw.	8	3.6	.....	.....	10 n;fg	.....	nw.	1.15	29.2	light rain	O. B. Cole.
Brownsville, Texas	29.94	760.5	29.99	761.7	64	17.8	93	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. C. Galloway.
Buffalo, New York	29.22	742.2	30.01	762.2	42.7	5.9	69	se.	10	4.5	.....	1 ck	2 ks	se.	se.	0.15	3.8	clear	Wm. Finn.
Burlington, Vermont	29.64	752.8	29.95	760.7	43.0	6.1	96	ne.	5	2.2	.....	.....	10 s	.....	n.	1.30	33.0	cloudy	G. C. Schaeffer.
Cairo, Illinois	29.74	755.4	30.10	766.1	47.7	8.7	88	s.	4	1.8	.....	2 k	0	w.	.....	0	0	clear	W. H. Ray.
Campo, California	27.38	695.4	29.98	761.5	31.4	— 0.3	88	e.	4	1.8	.....	0	0	.....	.....	0	0	clear	W. H. Clendenon.
Camp Thomas, Arizona	27.23	691.6	30.01	762 2	39	3.9	82	calm	.....	.....	0	0	0	.....	.....	0	0	clear	J. T. Fitzgerald.
Cape Henry, Virginia	29.98	761.5	30.00	762.0	49	9.4	77	nw.	20	8.9	.....	0	0	.....	.....	1.01	25.7	clear	J. E. Lanouette.
Cape May, New Jersey	29.89	759.2	29.92	760.0	46	7.8	85	nw.	21	9.4	.....	0	0	.....	.....	0.53	13.5	clear	W. Bolten.
Castroville, Texas	29.22	742.2	30.05	763.3	51	10.6	86	nw.	3	1.3	.....	0	0	.....	.....	0	0	clear	T. Jones.
Cedar Keys, Florida	30.16	766.1	30.18	766.6	60	15.6	87	calm	0	0	.....	0	0	.....	.....	0	0	clear	F. W. Mixer.
Champaign, Illinois	29.16	740.7	30.02	762.5	47.0	8.3	68	sw.	12	5.4	.....	4 c	0	sw.	.....	0.	0	fair	L. A. Welsh.
Charleston, S. Carolina	30.09	764.3	30.15	765.8	52.5	11.4	72	nw.	5	2.2	.....	0	0	.....	.....	0.04	1.0	clear	J. H. Smith.
Charlotte, N. Carolina	29.28	743.7	30.16	766.1	47.0	8.3	68	nw.	6	2.7	.....	5 c	sk.	nw.	.....	0.04	1.0	fair	D. O. Donoghue.
Chattanooga, Tennessee	29.38	746.2	30.23	767.8	43.0	6.1	93	nw.	2	0.9	.....	.....	fg.	.....	.....	0	0	dense fog	B. L. Goulding.
Cheyenne, Wyoming	24.00	609.6	30.18	766.6	26.5	— 3.1	62	nw.	6	2.7	.....	0	0	.....	.....	0	0	clear	E. McGovern.
Chicago, Illinois	29.26	743.2	30.00	762.0	42.0	6.1	89	nw.	5	2.2	.....	7 k	0	.....	.....	0	0	fair	J. Mitchell.
Chincoteague, Virginia	29.91	759.7	29.93	760.2	49.8	9.9	71	nw.	28	12.5	.....	0	0	.....	.....	0.89	22.6	clear	F. C. Pratz.
Cincinnati, Ohio	29.42	747.3	30.11	764.8	52.9	11.6	72	se.	2	0.9	.....	0	0	.....	.....	0	0	clear	R. B. Watkins.
Cleveland, Ohio	29.26	743.2	30.04	763.0	48	8.9	62	sw.	14	6.3	.....	0	0	.....	.....	0.08	2.0	clear	J. B. Newlin.
Coleman City, Texas	28.19	716.0	30.04	763.0	48	8.9	80	sw.	8	3.6	.....	0	0	.....	.....	0	0	clear	L. Dorman.
Columbus, Ohio	29.18	741.2	30.07	763.8	48	8.9	63	sw.	4	1.8	.....	0	fg.	.....	.....	0	0	clear	D. Cuthbertson.
Concho, Texas	28.04	712.2	30.01	762.2	49	9.4	86	sw.	9	4.0	.....	0	0	.....	.....	0	0	clear	W. W. McConihe.
Davenport, Iowa	29 25	742.9	29.94	760.5	45	7.2	68	sw.	3	1.3	.....	7 cs	fg	w.	calm	0	0	fair	R. R. Martin.
Dayton, Washington T'y	28.14	714.7	29.95	760.7	35.5	1.9	65	se.	3	1.3	.....	0	0	.....	.....	0	0	clear	H. Clifford.
Deadwood, Dakota	25.40	645.1	30.24	768.1	21.7	— 5.7	87	sw.	1	0.4	.....	0	0	.....	.....	0.02	0.5	clear	G. W. Scott.
Decatur, Texas	.....	.....	.....	.....	54	12.2	74	s.	10	4.5	.....	0	0	.....	.....	0	0	clear	D. J. Carr.
Delaware Breakwater, Del.	29.91	759.7	29.93	760.2	45	7.2	93	nw.	27	12.1	.....	1 c	3 s	w.	.....	0.53	13.5	fair	A. Schneider.
Denison, Texas	29.19	741.4	30.02	762.5	57.3	14.1	80	s.	12	5.4	.....	0	0	.....	.....	0	0	clear	J. McGlone.
Denver, Colorado	24.72	627.9	30.16	766.1	36.2	2.3	58	s.	4	1.8	.....	0	0	.....	.....	0	0	clear	F. M. Neal.
Des Moines, Iowa	29.02	737.1	29.98	761.5	41	5.0	73	nw.	6	2.7	.....	4 c	3 s	nw.	nw.	0	0	fair	F. W. Conrad.
Detroit, Michigan	29.25	742.9	30.00	762.0	49.0	9.4	77	s.	8	3.6	.....	0	0	.....	.....	0	0	clear	C. F. R. Wappenhans.
Dodge City, Kansas	27.33	694.2	30.06	763.5	39.3	4.1	61	n.	15	6.7	.....	0	0	.....	.....	0	0	clear	E. A. Thomas.
Dubuque, Iowa	29.25	742.9	30.00	762.0	36.2	2.3	89	w.	2	0.9	.....	4 k;cs	1 s	nw;w	calm	0	0	fair	J. Harvey Smith.
Duluth, Minnesota	29.12	739.6	29.86	758.4	36	2.2	69	sw.	5	2.2	.....	.....	10 s	.....	calm	0	0	cloudy	N. B. Conger.
Eagle Pass, Texas	29.22	742.2	30.04	763.0	54.0	12.2	80	se.	2	0.9	.....	0	0	.....	.....	0	0	clear	F. Belford.
Eagle Rock, Idaho	25.18	639.6	30.06	763.5	30	— 1.1	80	sw.	4	1.8	.....	.....	10 n	.....	.....	0.42	10.7	light snow	J. M. Clifford.
Eastport, Maine	29.87	758.7	29.94	760.5	42	5.6	92	s.	15	6.7	.....	.....	10 n	.....	s.	0.17	4.3	light rain	J. H. Melton.
El Paso, Texas	26.26	667.0	30.06	763.5	37	2.8	72	w.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.24	742.7	30.01	762.2	44	6.7	83	s.	8	3.6	.....	0	2 s	.....	.....	0.12	3.0	clear	R. H. Paxton.
Escanaba, Michigan	29.29	744.0	30.00	762.0	27	— 2.8	88	n.	3	1.3	.....	3 k	3 s	w.	.....	0	0	fair	C. Dill.
Florence, Arizona	28.41	721.6	29.98	761.5	48.0	8.9	61	nw.	3	1.3	.....	0	0	.....	.....	0	0	clear	R. R. Herman.
Fort Apache, Arizona	25.06	636.5	30.08	764.0	30	— 1.1	70	ne.	4	1.8	.....	0	0	.....	.....	0	0	clear	W. C. Barnes.
Fort Assinnaboine, Montana	27.20	690.9	30.21	767.3	25	— 3.9	53	sw.	11	4.9	.....	0	0	.....	.....	0	0	clear	B. O. Lenoir.
Fort Bennett, Dakota	28.48	723.4	30.18	766.6	33	0.6	71	w.	1	0.4	.....	0	0	.....	.....	0.01	0.3	clear	T. Gibson.
Fort Benton, Montana	27.24	691.9	30.22	767.6	15	— 9.4	67	calm	0	0	.....	0	0	.....	.....	0	0	clear	S. Wheaton.
Fort Buford, Dakota	27.96	710.2	30.10	764.5	31	— 0.6	71	w.	16	7.2	.....	.....	10 s	.....	w.	0.03	0.8	cloudy	A. H. Bell.
Fort Custer, Montana	27.12	688.8	30.45	773.4	28	— 2.2	59	s.	2	0.9	.....	0	4 s	.....	calm	inap.	inap.	fair	V. Verge.
Fort Davis, Texas	25.04	636.0	29.92	760.0	39	3.9	52	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. Williams.
Fort Elliott, Texas	27.09	688.1	29.92	760.0	35	1.7	40	nw.	6	2.7	.....	0	0	.....	.....	0	0	clear	W. J. Cundall.
Fort Gibson, Indian T'y	29.42	747.3	30.01	762.2	56.5	13.6	57	e.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. B. Campbell.
Fort Grant, Arizona	25.24	641.1	30.07	763.8	40.5	4.7	33	e.	4	1.8	.....	0	0	.....	.....	0	0	clear	T. J. Macgowan.
Fort Griffin, Texas	28.66	728.0	30.01	762.2	53	11.7	66	s.	8	3.6	.....	0	0	.....	.....	0	0	clear	G. H. Hayne.
Fort Keogh, Montana	27.57	700.3	30.22	767.6	25	— 3.9	64	w.	6	2.7	.....	0	0	.....	.....	0.08	2.0	clear	W. B. Stockman.
Fort Macon, North Carolina	30.05	763.3	30.06	763.5	52	11.1	72	nw.	12	5.4	.....	2cs;hz	0	calm	.....	1.24	31.5	clear	L. Leonardy.
Fort McKavett, Texas	27.82	706.6	30.14	765.5	52.5	11.4	50	sw	2	0.9	.....	0	0	.....	.....	0	0	clear	J. E. Thatcher.
Fort Missoula, Montana	26.72	678.7	30.10	764.5	14	—10.0	67	nw.	1	0.4	.....	0	0	.....	.....	0.02	0.5	clear	J. H. Jones.
Fort St. Michaels, Alaska	29.72	754.9	29.76	755.9	5	—15.0	100	sw.	7	3.1	.....	0	8 s	.....	sw.	inap.	inap.	fair	A. P. Leavitt.
Fort Shaw, Montana	26.36	669.5	30.16	766.1	12	—11.1	64	se.	1	0.4	.....	0	0	.....	.....	0	0	clear	A. L. Mathews.
Fort Sill, Indian Territory	28.69	728.7	29.98	761.5	47.5	8.6	88	s.	10	4.5	.....	0	0	.....	.....	0	0	clear	T. Cleary.
Fort Stevenson, Dakota	28.09	713.5	30.07	763.8	33	0.6	71	nw.	17	7.6	.....	.....	10 s	.....	nw.	inap.	inap.	cloudy	W. Burrows.
Fort Verde, Arizona	.....	.....	.....	.....	35.7	2.1	58	w.	.....	.....	1	0	0	.....	.....	0	0	clear	D. Brooks.
Fort Washakie, Wyoming	24.40	619.7	.....	.....	28.1	— 2.2	61	se.	5	2.2	.....	.....	10 s	.....	.....	0	0	cloudy	T. M. Ambler.
Fredericksburg, Texas	28.28	718.3	30.04	763.0	55	12.8	80	calm	0	0	.....	0	0	.....	.....	0	0	clear	H. S. Miles.
Galveston, Texas	30.03	762.7	30.07	763.8	64.5	18.1	83	s.	6	2.7	.....	0	3 s	.....	.....	0	0	clear	E. O'C. MacInerney.
Grand Haven, Michigan	29.27	743.4	29.97	761.2	37.5	3.1	89	w.	1	0.4	.....	.....	fg.	.....	.....	0	0	dense fog	W. A. Reid.
Hatteras, North Carolina	29.97	761.2	29.99	761.7	53	11.7	80	nw.	20	8.9	.....	3 k	0	.....	.....	2.13	54.1	clear	R. M. Crawford.
Helena, Montana	25.78	654.8	30.15	765.8	18	— 7.8	70	w.	2	0.9	.....	0	0	.....	.....	inap.	inap.	clear	N. C. Smith.
Henrietta, Texas	28.96	735.6	30.00	762.0	54	12.2	80	s.	12	5.4	.....	0	0	.....	.....	0	0	clear	J. W. Byram.
Huron, Dakota	28.68	728.5	30.16	766.1	37	2.8	79	w.	7	3.1	.....	0	7 k	.....	w.	0.03	0.8	fair	S. W. Glenn.
Indianapolis, Indiana	29.22	742.2	30.06	763.5	49	9.4	71	s.	5	2.2	.....	4 c	hz.	w.	calm	0	0	fair	O. Schutze.
Indianola, Texas	30.03	762.7	30.06	763.5	64.6	18.1	93	se.	5	2.2	.....	0	0	.....	.....	0	0	clear	I. A. Reed.
Jacksboro, Texas	28.78	731.0	29.99	761.7	55	12.8	69	s.	11	4.9	.....	0	0	.....	.....	0	0	clear	J. P. Sherry.
Jacksonville, Florida	30.14	765.5	30.18	766.6	55	12.8	86	w.	1	0.4	.....	0	fg	.....	.....	0	0	clear	J. W. Smith.
Keokuk, Iowa	29.38	746.2	30.06	763.5	50.5	10.3	67	sw.	5	2.2	.....	0	2 s	.....	sw.	0	0	clear	F. Z. Gosewisch.
Key West, Florida	30.10	764.5	30.12	765.0	71.8	22.1	84	ne.	16	7.2	.....	0	4ks;fg	.....	ne.	0	0	fair	L. M. Melbourne.
Kittyhawk, North Carolina	29.98	761.5	30.00	762.0	52	11.1	80	nw.	23	10.3	.....	hz.	0	.....	.....	2.31	58.7	clear	E. A. Beals.
Knoxville, Tennessee	29.17	740.9	30.23	767.8	38.1	3.4	98	nw.	2	0.9	.....	3 c	fg.	.....	.....	0.01	0.3	fair	J. A. Cody.
La Crosse, Wisconsin	29.14	740.1	29.96	761.0	40	4.4	73	sw.	2	0.9	.....	.....	10 s	.....	.....	0	0	cloudy	S. C. Emery.
La Mesilla, New Mexico	26.12	663.4	30.08	764.0	34.8	1.6	66	calm	0	0	.....	0	0	.....	.....	0	0	clear	N. D. Lane.
Leavenworth, Kansas	29.09	738.9	30.03	762.7	50	10.0	64	s.	3	1.3	.....	2 cs	0	w.	.....	0	0	clear	A. W. Browne.
Lewiston, Idaho	29.14	740.1	30.00	762.0	32	0.0	52	e.	1	0.4	.....	7 k	1 s	calm	calm	0	0	cloudy	W. Blake.
Little Rock, Arkansas	29.75	755.6	30.08	764.0	50	10.0	93	calm	0	0	.....	0	c	.....	.....	0	0	clear	M. F. Burrows.
Los Angeles, California	29.61	752.1	30.01	762.2	43.3	6.3	68	nw.	1	0.4	.....	0	0	.....	.....	0	0	clear	E. F. Kubel.
Louisville, Kentucky	29.51	749.5	30.10	764.5	50	10.0	77	s.	7	3.1	.....	0	3 s	.....	.....	0	0	clear	H. C. Smith.
Lynchburg, Virginia	29.40	746.7	30.12	765.0	52.0	11.1	47	w.	4	1.8	.....	0	0	.....	.....	0.10	2.5	clear	T. H. Breen.
Madison, Wisconsin	28.95	735.3	30.02	762.5	37	2.8	89	nw.	2	0.9	.....	3 cs	3 s	w.	w.	0	0	fair	C. A. Shaw.
Marquette, Michigan	29.19	741.4	29.96	761.0	38	3.3	54	sw.	12	5.4	.....	0	8 s	.....	sw.	0	0	cloudy	I. Gilligan.
Mason, Texas	28.36	720.3	30.05	763.3	57	13.9	64	sw.	3	1.3	.....	0	0	.....	.....	0	0	clear	A. M. Wilson.
Memphis, Tennessee	29.79	756.7	30.14	765.5	50	10.0	86	calm	0	0	.....	0	0	.....	.....	0	0	clear	D. T. Flannery.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–01	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Milwaukee, Wisconsin	29.20	741.7	29.99	761.7	40	4.4	82	n.	4	1.8	.....	0	9 s	.....	sw.	0	0	cloudy	W. Line.
Mobile, Alabama	30.12	765.0	30.16	766.1	53	11.7	93	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. D. Paxton.
Montgomery, Alabama	29.93	760.2	30.17	766.3	48.4	9.1	98	n.	2	0.9	.....	.....	fg	.....	.....	0	0	dense fog	J. B. McLaughlin.
Moorhead, Minnesota	28.90	734.0	29.98	761.5	35.1	1.7	79	w.	8	3.6	.....	0	0	.....	.....	0	0	clear	H. Bessant.
Morgantown, W. Virginia	29.09	738.9	30.15	765.8	35.5	1.9	87	calm	0	0	.....	.....	fg	.....	.....	0.29	7.4	dense fog	J. Sprigg, jr.
Mt. Washington, N. H.	23.64	600.4	30.16	766.1	31.0	— 0.6	94	n.	38	17.0	.....	.....	10n;fg	.....	n.	5.26	133.6	light snow	J. G. Linsley.
Nashville, Tennessee	29.61	752.1	30.17	766.3	46.2	7.9	88	s.	2	0.9	.....	3 cs	0	nw.	.....	inap.	inap.	clear	L. A. Jesunofsky.
New Haven, Connecticut	29.70	754.4	29.82	757.4	49	9.4	77	n.	13	5.8	.....	3 c	7 s	sw.	n.	0.72	18.3	clearing	J. H. Sherman.
New London, Connecticut	29.74	755.4	29.79	756.7	49	9.4	100	n.	8	3.6	.....	.....	10 n	.....	n.	0.84	21.3	light rain	J. G. Lynch.
New Orleans, Louisiana	30.09	764.3	30.15	765.8	57.0	13.9	86	ne.	2	0.9	.....	0	fg	.....	.....	0	0	clear	A. J. Armstrong.
Newport, Rhode Island	29.71	754.6	29.76	755.9	47.8	8.8	97	n.	5	2.2	.....	.....	10n;fg	.....	.....	1.12	28.4	light rain	W. McHillivray.
New River, N. Carolina	.....	.....	.....	.....	52	11.1	59	nw.	.....	.....	1	0	4 ks	.....	w.	0.83	21.1	fair	C. C. Corbin.
New Shoreham, Rhode I'd.	29.74	755.4	29.77	756.1	47.2	8.4	100	nw.	6	2.7	.....	.....	fg	.....	.....	0.96	24.4	dense fog	W. Davis.
New York, New York	29.72	754.9	29.90	759.4	49	9.4	96	nw.	10	4.5	.....	.....	10 s	.....	nw.	0.56	14.2	cloudy	E. B. Garriott.
Norfolk, Virginia	29.99	761.7	30.02	762.5	51	10.6	72	nw.	12	5.4	.....	0	0	.....	.....	0.80	20.3	clear	J. T. Elker.
North Platte, Nebraska	27.14	689.3	30.20	767.1	36.6	2.6	62	w.	11	4.9	.....	0	4 s	.....	.....	0	0	fair	E. F. Brady.
Olympia, Washington T'y	29.76	755.9	29.80	756.9	39.0	3.9	89	s.	8	3.6	.....	0	9 s	.....	.....	0.15	3.8	cloudy	J. Dascomb.
Omaha, Nebraska	28.80	731.5	30.05	763.3	43.1	6.2	74	nw.	10	4.5	.....	2 ck	0	.....	.....	0	0	clear	A. Pollak.
Ooglaamie, Pt. Barrow, Alas.	29.57	751.1	29.59	751.6	— 2.7	—19.3	85	w.	22	9.8	.....	.....	10 s	.....	.....	0	0	cloudy	P. H. Ray.
Oswego, New York	29.66	753.4	30.00	762.0	38.8	3.8	86	sw.	3	1.3	.....	0	0	.....	.....	0.65	16.5	clear	S. W. Beall.
Palestine, Texas	29.52	749.8	30.09	764.3	58	14.4	64	s.	4	1.8	.....	0	0	.....	.....	0	0	clear	L. M. Pindell.
Pensacola, Florida	30.13	765.3	30.16	766.1	55.2	12.9	96	n.	4	1.8	.....	0	0	.....	.....	0	0	clear	M. McGauran.
Philadelphia, Pa	29.85	758.2	29.95	760.7	51	10.6	52	nw.	22	9.8	.....	1 c	4 s	nw.	nw.	0.58	14.7	fair	T. F. Townsend.
Pike's Peak, Colorado	17.69	449.3	30.28	769.1	13	—10.6	76	sw.	32	14.3	.....	0	4 s	.....	.....	0	0	fair	L. M. Dey.
Pioche, Nevada	23.97	608.8	30.11	764.8	39	3.9	52	s.	5	2.2	.....	7 k	0	w.	.....	0	0	fair	C. K. Kitchel.
Pittsburg, Pennsylvania	29.24	742.7	30.09	764.3	40.0	4.4	89	e.	3	1.3	.....	.....	fg	.....	.....	0.26	6.6	dense fog	J. H. Bryce.
Port Eads, Louisiana	30.14	765 5	30.16	766.1	58.5	14.7	100	e.	10	4.5	.....	0	hz	.....	.....	inap.	inap.	clear	H. G. Christian.
Port Huron, Michigan	29.26	743.2	29.98	761.5	40.6	4.8	82	sw.	5	2.2	.....	0	0	.....	.....	0	0	clear	W. O. Bailey.
Portland, Maine	29.79	756.7	29.84	757.9	45.0	7.2	93	n.	7	3.1	.....	.....	10n;fg	.....	n.	1.56	39.6	light rain	D. C. Murphy.
Portland, Oregon	29.79	756.7	29.86	758.4	40.0	4.4	82	s.	12	5.4	.....	.....	10 s	.....	s.	0.24	6.1	cloudy	M. L. Hearne.
Portsmouth, N. Carolina	.....	.....	.....	.....	56	13.3	62	nw.	21	9.4	.....	0	0	.....	.....	1.01	25.7	clear	F. P. Chaffee.
Prescott, Arizona	24.74	628.4	30.08	764.0	30	— 1.1	80	w.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. McN. Wright.
Provincetown, Mass.	29.75	755.6	29.78	756.4	45	7.2	100	sw.	1	0.4	.....	.....	10n;fg	.....	.....	1.26	32.0	light rain	P. T. Jenkins.
Punta Rassa, Florida	30.12	765.0	30.13	765.3	60	15.6	81	n.	7	3.1	.....	0	0	.....	.....	inap.	inap.	clear	W. J. Evans.
Red Bluff, California	29.62	752.3	30.00	762.0	46.4	8.0	91	sw.	1	0.4	.....	5 k	0	sw.	.....	0.02	0.5	fair	J. M. Frantz.
Rio Grande City, Texas	29.74	755.4	29.98	761.5	60	15.6	87	se.	8	3.6	.....	0	0	.....	.....	0	0	clear	W. H. Taylor.
Rochester, New York	29.31	744.5	30.01	762.2	39	3.9	89	s.	7	3.1	.....	2 cs	2s;fg	.....	s.	0.05	1.3	fair	A. T. Sherwood.
Roseburg, Oregon	29.39	746.5	29.95	760.7	39.9	4.4	82	s.	4	1.8	.....	.....	10 n	.....	sw.	0.04	1.0	light rain	J. J. Nanry.
Sacramento, California	29.97	761.2	30.05	763 3	45.8	7.7	93	sw.	3	1.3	.....	5 c	2 s	nw.	sw.	0.02	0.5	fair	J. A. Barwick.
St. Louis, Missouri	29.43	747.5	30.06	763.5	50.6	10.3	70	s.	1	0.4	.....	3 c	0	.....	.....	0	0	clear	J. H. Webber.
St. Paul, Minnesota	29.07	738.4	29.99	761.7	39.0	3.9	86	sw.	8	3.6	.....	.....	10 s	.....	sw.	0	0	cloudy	O. S. M. Cone.
St. Vincent, Minnesota	28.95	735.3	29.89	759.2	22	— 5.6	88	nw.	25	11.2	.....	0	8 s	.....	n.	0.06	1.5	cloudy	G. Kingsbury.
Salt Lake City, Utah	25.53	648.5	30.05	763.3	37	2.8	51	e.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. Craig.
San Antonio, Texas	29.32	744.7	30.02	762.5	52.0	11.1	86	ne.	3	1.3	.....	0	0	.....	.....	0	0	clear	E. Lane.
San Diego, California	29.87	758.7	29.94	760.5	51.6	10.9	91	n.	3	1.3	.....	.....	10 s	.....	.....	0	0	cloudy	A. C. Dobbins.
Sandusky, Ohio	29.30	744.2	30.02	762.5	48	8.9	71	s.	15	6.7	.....	0	0	.....	.....	0	0	clear	M. H. Perry.
Sandy Hook, New Jersey	29.85	758.2	29.89	759.2	46.0	7.8	83	nw.	16	7.2	.....	10 k	0	nw.	.....	1.19	30.2	cloudy	B. A. Blundon.
San Francisco, California	30.00	762.0	30.07	763.8	50	10.0	93	s.	3	1.3	.....	0	6 s	.....	sw.	0.06	1.5	fair	N. Gorom.
Santa Fé, New Mexico	23.20	589.3	30.18	766.6	37	2.8	40	n.	10	4.5	.....	0	0	.....	.....	0	0	clear	H. N. Jones.
Savannah, Georgia	30.10	764.5	30.19	766.8	54	12.2	77	nw.	4	1.8	.....	4 c	fg	.....	.....	0	0	fair	H. M. Ford.
Shreveport, Louisiana	29.84	757.9	30.09	764.3	53	11.7	80	s.	2	0.9	.....	0	0	.....	.....	0	0	clear	E. N. Meekins.
Silver City, New Mexico	24.28	616.7	30.06	763.5	35	1.7	44	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. B. Wallace.
Sitka, Alaska	29.67	753.6	29.73	755.1	27.5	— 2.5	46	ne.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. J. McLean.
Smithville, North Carolina	30.08	764.0	30.12	765.0	50	10.0	72	nw.	6	2.7	.....	5 cs	0	nw.	.....	0.92	23.4	fair	J. C. Rickli.
Spokane Falls, Wash. Ter.	27.90	708.6	30.03	762.7	26	— 3.3	76	e.	3	1.3	.....	0	0	.....	.....	0	0	clear	D. Moore.
Springfield, Illinois	29.31	744.5	30.03	762.7	49.7	9.8	64	sw.	8	3.6	.....	0	5 s	.....	w.	0	0	fair	T. B. Jennings.
Springfield, Massachusetts	29.71	754.6	29.85	758.2	45.0	7.2	93	n.	5	2.2	.....	.....	10 s	.....	.....	1.32	33.5	cloudy	T. S. Outram.
Springfield, Mo	28.59	726.2	30.15	765.8	49	9.4	53	se.	9	4.0	.....	0	1 s	.....	.....	0	0	clear	J. B. Marbury.
Stockton, Texas	26.97	685.0	30.05	763.3	38.0	3.3	72	sw.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. O'Dowd.
Thatcher's Island, Mass.	29.77	756.1	29.83	757.7	40.0	4.4	100	n	5	2.2	.....	.....	10n;fg	.....	.....	1.27	32.3	light rain	G. Liebmann.
Toledo, Ohio	29.27	743.4	30.00	762.0	49	9.4	71	sw.	9	4.0	.....	0	0	.....	.....	0	0	clear	A. Buell.
Tucson, Arizona	27.52	699.0	29.98	761.5	47	8.3	71	s.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.56	750.8	29.94	760.5	34.0	1.1	79	se.	2	0.9	.....	.....	10 s	.....	sw.	0	0	cloudy	R. P. Sibley.
Uvalde, Texas	29.05	737.9	30.03	762.7	53	11.7	86	ne.	6	2.7	.....	0	0	.....	.....	0	0	clear	T. J. Kenan.
Vicksburg, Mississippi	29.86	758.4	30.12	765.0	55	12.8	74	e.	2	0.9	.....	0	fg	.....	calm	0	0	clear	T. J. Kenan.
Visalia, California	29.61	752.1	29.99	761.7	45	7.2	88	nw.	1	0.4	.....	0	2 ks	.....	.....	0	0	clear	J. T. Cochran.
Washington, D. C.	29.93	760.2	30.05	763.3	48	8.9	71	nw.	8	3.6	.....	0	hz	.....	.....	0.39	9.9	clear	B. M. Purssell.
West Los Animas, Colorado	26.04	661.4	30.12	765.0	28	— 2.2	59	nw.	3	1.3	.....	0	3 s	.....	nw	0	0	clear	J. Grover.
Wickenburg, Arizona	.....	.....	.....	.....	38.5	3.6	81	nw.	.....	.....	1	0	0	.....	.....	0	0	clear	H. A. Kremp.
Williamsport, Pa	29.45	748.0	30.08	764.0	44	6.7	68	w.	6	2.7	.....	0	hz	.....	.....	1.36	34.5	clear	B. F. Hough.
Wilmington, N. Carolina	30.05	763.3	30.11	764.8	52	11.1	80	nw.	5	2.2	.....	8 c; k	0	c;w.	.....	0.22	5.6	fair	S. A. Haney.
Winnemucca, Nevada	25.47	646.9	29.97	761.2	34	1.1	82	sw.	4	1.8	.....	5 cs	0	sw.	.....	0	0	fair	J. R. Williams.
Yankton, Dakota	28.74	730.0	30.12	765.0	38	3.3	73	w.	3	1.3	.....	0	6 ks	.....	.....	0	0	fair	J. H. Atfield.
Yuma, Arizona	29.72	754.9	29.87	758.7	50.2	10.1	74	ne.	1	0.4	.....	0	0	.....	.....	0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.05	560.1	.....	.....	51.5	10.8	78	sw.	1	0.4	.....	3 k	2 s	w.	.....	0	0	fair	Joaquin Gomez.
Bridgetown, Barbados, W.I.	30.05	763.3	30.06	763.5	77	25.0	86	e.	.....	.....	.....	5 k	5 ks	e.	e.	0	0	fair	J. A. Racker.
Buenaventura, U. S. C.	29.96	761.0	29.98	761.5	76	24.4	95	sw.	3	1.3	.....	.....	10 n	.....	sw.	0.14	3.6	raining	J. I. Plume.
Guadeloupe, W. I.	29.96	761.0	29.98	761.5	75	23.9	87	e.	.....	.....	.....	2 k	0	.....	.....	0	0	clear	B. Bigar.
Havana, Cuba, W. I.	30.17	766.3	30.22	767.6	75	23.9	82	se.	1.2	0.5	.....	0	8 ks	.....	calm	0	0	cloudy	A. Van Caneghem.
Kingston, Jamaica, W. I.	30.05	763.3	30.06	763.5	71.0	21.7	85	n.	1	0.4	.....	0	0	.....	.....	0	0		Robert Johnston.
Navassa	30.10	764.5	30.18	766.6	77	25.0	81	ne.	9	4.0	.....	5 ck	2 s	.....	e.	0	0		F. M. Everett.
Paramaribo, S. A.	30.02	762.5	30.02	762.5	78	25.6	86	e.	.....	.....	2	5 k	0	e.	.....	0	0	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.57	751.1	30.02	762.5	84	28.9	83	se.	.....	.....	1	2 ck	1 ks	nw.	calm	0	0	fair	Miss Flora A. Nichols.
Santiago de Cuba, W. I.	30.04	763.0	30.06	763.5	75	23.9	85	calm	0	0	.....	0	1 s	.....	.....	0	0	fair	Robert Mason.
York Factory, B. A.	29.91	759.7	29.96	761.0	— 5.0	—20 6	82	nw.	8	3.6	.....	1 c	0	w.	.....	0	0	fair	J. Fortescue & W. Wood.

STATIONS AND VESSELS.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
BRITISH NAVAL.																		
H. M. S. Agincourt, N. 36° 07′, W. 5° 21′	30.33	770.4	62	16.7	88	wnw			2		2	nnw.						d. clouds.
H. M. S. Alert, S. 0° 20′, E. 56° 50′	29.91	759.7	81.8	27.7	79	ne.			2		4							d. clouds.
H. M. S. Alexandra, Malta, Mediterranean	30.09	764.3	67.5	19.7	81	nnw.			1		3							d. clouds.
H. M. S. Bacchante, Suez Canal, Egypt	30.20	767.1	69	20.6	70	nnw.			1–2		0							blue sky.
H. M. S. Boadicea, S. 34° 11′, E. 18° 26′	29.91	759.7	73	22.8	67	ese.			5–6		3	se.						squally.
H. M. S. Comus, Singapore, Malay Pen	29.93	760.2	79	26.1	90	ne.			1		3							d. clouds.
H. M. S. Diamond, S. 40° 07′, E. 60° 28′	30.12	765.0	63	17.2	75	nne.			3–4		5	wsw.				3	wsw.	d. clouds.
H. M. S. Dido, N. 13° 05′, W. 59° 36′	30.06	763.5	78	25.6		ene.			2		2	ne.						d. clouds.
H. M. Dock-Yard, Bermuda, W. I	30.12	765.0	65	18.3	78	ese.			3–4		7	ese.						d. clouds.
H. M. S. Dwarf, S. 34° 54′, W. 56° 10′	29.85	758.2	72	22.2	85	nw.			1		10					0–1	n.	overcast.
H. M. S. Eclipse, S. 15° 01′, E. 40° 45′	29.91	759.7	83	28.3		wsw.			2		3							d. clouds.
H. M. S. Espiegle, S. 39° 15′, E. 35° 25′	30.22	767.6	57	13.9	81	sse.			4		9							d. clouds.
H. M. S. Fawn, N. 15° 04′, E. 42° 24′	29.87	758.7	81	27.2	72	s.			4		0					7	s.	d. clouds.
H. M. S. Flying Fish, N. 34° 41′, E. 135° 12′	30.09	764.3	45	7 2	84	calm			0		4					4	s.	blue sky.
H. M. S. Gannet, S. 25° 30′, W. 89° 00′	30.16	766.1	71	21.7	75	ese.			3–6		9							d. clouds.
H. M. S. Garnet, Keppel Sd., Falkland Ids	29.52	749.8	52	11.1	86	se.			1		7							showery.
H. M. S. Inconstant, N. 0° 30′, E. 104° 30′	29.94	760.5	80	26.7	82	ene.			2–3		6	ne.				2	ene.	d. clouds.
H. M. S. Iris, N. 34° 49′, E. 180° 22′	30.15	765.8	62	16.7	83	s.			2–3		0					2	ssw.	blue sky.
H. M. S. Iron Duke, N. 22° 16′, E. 114° 10′	30.07	763.8	57	13.9	87	calm			0		3	ne.						d. clouds.
H. M. S. Liffey, Coquimbo, Chili	30.00	762.0	62	16.7		calm			0		8							d. clouds.
H. M. S. Magpie, N. 22° 16′, E. 114° 10′	30.08	764.0	61.4	16.3	77	calm			0		10							misty.
H. M. S. Malabar, N. 49° 05′, W. 4° 50′	29.42	747.3	48	8.9	77	sw.			5–6		6	wsw.				7	sw.	thund'r st'm.
H. M. S. Orontes, S. 8° 21′, E. 40° 22	29.88	758.9	83.5	28.6	84	nnw.			3		8					3	nnw.	d. clouds.
H. M. S. Rambler, N. 2° 45′, E. 9° 49′	29.88	758.9	84	28.9		ssw.			2		1	ssw.				1	sw.	misty.
H. M. S. Ready, Fau, Asiatic Turkey	30.19	766.8	68.1	20.1		s.			2		0							blue sky.
H. M. S. Rocket, Vancouver Id	29.63	752.6	39	3.9	91	calm			0		2							d. clouds.
H. M. S. Sea Gull, S. 2° 16′, E. 40° 59′	29.28	743.7	81	27.2	95	ne.			3		2	nne.						d. clouds.
H. M. S. Thalia, N. 18° 12′, W. 25° 16′	30.16	766.1	71	21.7		ene.			5–6		2					5	ne.	d. clouds.
H. M. S. Triumph, S. 25° 35′, W. 89° 00′	30.21	767.3	72	22.2	75	ese.			4–6		4	se.				6	se.	squally.
H. M. S. Woodlark, Bombay, India	29.96	761.0	77.5	25.3	69	nw.			1–3		0							misty.
PORTUGUESE NAVAL.																		
Quanza, Sal, Cape Verd Ids	30.02	762.5	73.4	23.0	71	ne.			3		0					2	ne	blue sky.
SWEDISH NAVAL.																		
H. M. Corvette Balder, N. 23° 23′, W. 81° 56′	30.09	764.2	77.4	25.2	96	e.			1		9							
UNITED STATES NAVAL.																		
Navy Yard, Pensacola, Fla	30.15	765.8	60	15.6	94	ne.	4	1.8			2		ne.	0	0			fair.
Navy Yard, Portsmouth, N. H	29.80	756.9	40	4.4	100	ne.	4	1.8			10		e.	0.9	23.			raining.
Naval Hospital, Yokohama, Japan	29.96	761.0	39	3.9	58	ne.			2		8		w.	0.16	4.1			clearing.
Adams, Callao, Peru	29.76	755.9	68	20.0	95	sse.			1–2		10					gr'd		cloudy.
Alaska, Valparaiso, Chili	29.89	759.2	61	16.1	66	n.			1		0			0	0	sm'h		clear.
Alert, N. 3° 56′, E. 112° 15′*	29.81	757.2	78	25.6	91	calm			0		10		calm			sm'h		raining.
Alliance, N. 22° 45′, W. 67° 37′	30.07	763.8	74	23.3	76	ese.			3		2			0	0	sm'h		clear.
Ashuelot, Tientsin, China	30.38	771.6	34	1.1	62	w.			2		5		calm					fair.
Brooklyn, Possession Bay, Strait of Magellan	29.69	754.1	50	10.0	100		2	0.9			10		sse.	0.4	10.	light	se.	cloudy.
Colorado, New York, N. Y	29.88	758.9	50	10.0	79	nw.	16	7.2			10		nw.	0.09	2.3			cloudy.
Enterprise, N. 31° 50′, W. 77° 50′*	30.10	764.5	67	19.4	69	nnw.			5		2						n.	clear.
Essex, Porto Grande, Cape Verd Islands	30.12	765.0	71	21.7	80	ne.			6		2		ne.			long	ne.	clear.
Franklin, Norfolk, Va	30.02	762.5	51	10.6	79	nnw.	16	7.2			0			0.14	3.6			clear.
Galena, Villafranca, France	29.84	757.9	60	15.6	82	sw.			3		8		sw.			long		cloudy.
Independence, Navy Yard, Mare Island, Cal	29.92	760.0	53	11.7	86	calm			0		10			0	0			cloudy.
Kearsarge, New Orleans, La	30.13	765.3	57	13.9	87	calm			0		10							foggy.
Lackawanna, Valparaiso, Chili	30.09	764.3	60	15.6	100	nw.			0–1		0							clear.
Lancaster, Smyrna, Turkey*	30.10	764.5	64	17.8	62	s.			3		0			0	0	sm'h		clear.
Marion, S. 33° 54′, E. 18° 24′*	29.68	753.9	76	24.4	64	se.			6		5		w.	0	0	mod.		fair.
Michigan, Erie, Pa	29.96	761.0	43	6.1	83	sse.			3		0							clear.
Minnesota, Newport, R. I	29.76	755.9	49	9.4	93	nne.	3	1.3			10		calm					rainy.
Monocacy, Yokohama, Japan	30.15	765.8	42	5.6	66	n.			2		8		calm					fair.
Newhampshire, Newport, R. I	29.72	754.9	48	8.9	92	n.			3		10					mod.		foggy.
Nipsic, Vigo, Spain	30.19	766.8	55	12.8	74	w.			3		8		w.			sm'h		fair.
Onward, Callao, Peru	30.03	762.7	65	18.3	100	sse.			2		10		n.			long	w.	foggy.
Palos, Hong Kong, China	30.12	765.0	63	17.2	100	nne.			2		10							overcast.
Passaic, Washington, D C	30.05	763.3	49	9.4	85	w.			2		0							clear.
Pensacola, Coquimbo, Chili	29.98	761.5	60	15.6	88	calm	0	0			2			0	0	sm'h		clear.
Powhatan, N. 16° 20′, W. 62° 07′	30.11	764.8	80	26.7	66	e.			1		2					sm'h	s.	fair.
Quinnebaug, N. 32° 40′, E. 29° 27′	30.24	768.1	61	16.1	77	wnw.			3		2		calm			sm'h		fair.
Ranger, Acapulco, Mexico*	29.90	759.4	83	28.3	58	calm			0		0			0	0	sm'h		clear.
Richmond, Yokohama, Japan*	29.99	761 7	40	4.4	73	ne.			1		8		nw.	0	0			cloudy.
Saratoga, S. 14° 25′, W. 28° 10′*	30.14	765.5	79	26.1	74	e.			3		8		e.			sm'h		fair.
Shenandoah, League Island, Pa	30.18	766.6	49	9.4	64	wnw.	19	8.5			8		nnw.	0.26	6.6			fair.
Swatara, Yokohama, Japan*	29.93	760.2	42	5.6	74	nne.			2		8		wsw.			sm'h		fair.
Tennessee, Fort Monroe, Va	29.98	761.5	51	10.6	72	nw.	15	6.7			0			0	0			clear.
Vandalia, Havana, Cuba*†	30.21	767.3	73	22.8	90	e.			1		9		calm					cloudy.
Wabash, Boston, Mass	29.80	756.9	45	7.2	100	nnw.	4	1.8			10			1.36	34.5			rain & fog.
Wachusetts, Fort Simpson, Alaska	29.59	751.6	33	0.6	89	ne.			1		10		e.			sm'h		cloudy.
Wyoming, Port Royal, S. C	30.16	766.1	55	12.8	80	calm	0	0			2		sw.	0	0			fair.
Yantic, N. 23° 37′, W. 86° 06′*	30.03	762.7	77	25.0	91	ene.			1		5					sm'h		fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.			Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	Force.	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
ALLEN LINE.																		
S. S. Circassian, N. 49° 10′, W. 38° 35′	30.57	776.5	51	10.6	86	nnw.			3		2		nw.			3	n.	showery.
S. S. Peruvian, N. 53° 33′, W. 3° 27′*	29.12	739.6	37	2.8		wsw.			5		9		w.	6 h'r	6 h'r	sm'h		hazy.
S. S. Prussian, Boston, Mass*	29.78	756.4	47	8.3		calm			0		9							cloudy.
S. S. Waldensian, N. 43° 09′, W. 61° 03′*	30.25	768.3	40	4.4		sse.			4		5		s.	0	0			fine.
AMERICAN STEAMSHIP COMPANY.																		
S. S. Illinois, Philadelphia, Penn	29.86	758.4	54	12.2	93	s.			4		2		s.					clear.
S. S. Indiana, N. 41° 13′, W. 53° 16′†	30.11	764.8	41	5.0	82	nne.			6		2?		n.	h'vy	h'vy	mod.	n.	overcast?.
S. S. Ohio, St. George's Channel, Eng†*	29.38	746.2	50	10.0	93	nw.			8		7		nw.			mod.	wnw.	
ANCHOR LINE.																		
S. S. Galatia, N. 48° 15′, W. 18° 25′†	29.80	756.9				nw.			9		8		nw.	16h'r	16h'r	h'vy	nw.	squally.
ATLAS LINE.																		
S. S. Ailsa, N. 38° 40, W. 73° 48′†	30.06	763.5	48	8.9	85	nw.			4		10			5 h'r	5 h'r	h'vy	ese.	overcast.
S. S. Alvo, Savanilla, U. S. C	29.96	761.0	78	25.6		ne.			6		0			0	0			fine.
S. S. Andes, N. 35° 08′, W. 73° 55′*†	29.95	760.7	67	19.4		w.			4		0			0	0	r'gh		clear.
S. S. Arden, N. 38° 00′, W. 74° 45′			52	11.1		n.			2				s.				s.	fine.
BRITISH METEOROLOGICAL OFFICE.																		
S. Auckland, S. 22° 06′, W. 29° 28′	30.14	765.5	80	26.7		ne.			3		3							blue sky.
Baroda, S. 40° 19′, W. 15° 51′	30.00	762.0	59.0	15.0	96	sse.			4		10							misty.
Caldew, S. 21° 10′, W. 27° 08′	30.18	766.6	80	26.7		ne.			5		3							d. clouds.
S. S. Cipero, N. 41° 07′ W. 25° 19′	30.55	776.0	58.2	14.6	76	wnw.			3		4					2	nne.	d. clouds.
Coppename, N. 25° 03′, W. 56° 58′	30.19	766.8	70.5	21.4	73	nne.			4		3							blue sky.
Glencairn, N. 15° 46′, E. 90° 54′	29.92	760.0	80	26.7	74	n.			2–3		0							blue sky.
S. S. Gordon, N. 18° 40′, E. 39° 41′	29.96	761.0	85	29.4	72	ene.			1–2		5							d. clouds.
Bg. Hermine, S. 29° 41′, W. 30° 15′	30.16	766.1	75.3	24.1	95	n.			3		4							blue sky.
Hope, N. 0° 06′, W. 29° 58′	29.91	759.7	83.5	28.6	85	sse.			3		4							d. clouds.
S. Lochee, N. 1° 26′, W. 25° 40′	29.97	761.2	82	27.8	83	se.			3		3							d. clouds.
S. S. Minho, Rio de Janeiro, Brazil	30.01	762.2	77.3	25.2	86	se.			2		5							misty.
Naiad, N. 47° 17′, W. 18° 04′	29.86	758.4	49.3	9.6	78	w.			9		9							rain&hail.
Queen of Cambria, N. 4° 37′, E. 85° 52′	29.84	757.9	83.8	28.8	79	nne.			4		4							d. clouds.
BRISTOL CITY LINE.																		
S. S. Brooklyn City, N. 40° 07′, W. 68° 50′*†	29.95	760.7	48	8.9		s.			6		10		s.	2 h'r	2 h'r	long hv'y	s	foggy.
CROMWELL LINE.																		
S. S. Hudson, N. 26° 51′, W. 86° 27′*†	30.13	765.3	74	23.3		ese.			4		0			0	0	mod.	se.	clear.
CUNARD LINE.																		
S. S. Gallia, N. 51° 14′, W. 13° 18′†	29.52	749.8	46	7.8	100	w.			7		5		w.	hail&	rain	mod.	nw.	squally.
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. Canada, N. 49° 07′, W. 22° —′	29.75	755 6	42.8	6.0		wnw.			6		7		wnw.	2 h'r	2 h'r		wnw.	
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Gellert, N. 47° 12′, W. 35° 51′*	30.42	772.7	52	11.1		wsw.			1		2		sw.	0	0	mod.	w.	clear.
S. S. Lessing, N. 46° 01′, W. 41° 21′*†	30.21	767.3	53	11.7		se.			5		8		nnw.	0	0	mod.	se.	
JOHNSTON LINE.																		
S. S. Thanemore, N. 46° 50′, W. 29° 52′	30.37	771.4				nw.			5		5		nw.	0	0		ne.	fine.
LEYLAND LINE.																		
S. S Iberian, Off Liverpool, England						wsw.			3		10		sw.	24 h'r	24 h'r			raining.
MALLORY LINE.																		
S. S. Colorado, N. 28° 07′, W. 92° 03′†	30.08	764.0	67	19.4		ese.			3		0			0	0	long	ese.	clear.
MERCHANTS' EXPRESS LINE.																	wsw.	
S. S. Freja, N. 41° 34′, W. 64° 18′*†	30.20	767.1	48	8.9	100	se.			4		1		sse.	0	0	cross high	s. s.	clear.
MERCHANTS' STEAMSHIP COMPANY.																		
S. S. Glenfyne, N. 36° 30′. W. 74° 30′						nw.			8		3		nw.			cross	nw.	
NATIONAL LINE.																		
S. S. Erin, London, England						sw.			7		8		sw.	3 h'r	hv'y			
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Niagara, Havana, Cuba, W.I.†	30.17	766.3	78	25.6		calm			0					0	0			clear.
NEW YORK HERALD WEATHER SERVICE.																h'vy	s.	
S. S. Alvena, N. 35° 09′, W. 73° 50′*†	29.72	754.9	60	15.6		nw.			7							cross	nw.	cloudy.
S S. New York, N. 25° 29′ W. 80° 05′*†	30.15	765.8	70	21 1		n.			3							sm'h		clear.
NORTH GERMAN LLOYD.																		
S. S. Hermann, N. 48° 43′, W. 26° 23′*†	30.15	765 8	47.3	8.5		wnw.			6		5		wnw.	2 h'r	2 h'r	h'vy	wnw.	stormy.
S. S. Hohenzollern, S. 0° 44′, W. 30° 58′*	29.93	760 2	82.6	28.1		se.			3		2		ese.	0	0	3	ese.	clear.
S. S. Kronprinz F. Wilhelm, Weser river Germany	29.44	747.8	41.0	5.0		sw.			4.5		6		sw.	3 h'r	light	3-4	sw.	raining.
S. S. Main, N. 41° 48′, W. 59° 39′*	30.35	770.9	42.8	6.0		se.			1–2		7		se.	0	0		se.	cloudy.
S. S. Mosel, N. 54° 01′, E. 6° 41′	29.43	747.5	43.2	6.2		sw.			6		9		sw.	3 h'r	3 h'r	sm'h	wsw.	cloudy.
S. S. Oder, N. 49° 46′, W. 10° 20′*	29.49	749.0	52.2	11.2		nw.			6		9		nw.	hail	hail	r'gh	nw.	squally.
S. S. Ohio, N. 43° 13′, W. 46° 46′	29.97	761.2				e.			4		5		e.	5 h'r	light	r'gh	n.	fair.
S. S. Strassburg, N. 37° 32′, W. 74° 32′	29.93	760.2	53.0	11.7	93	nw.			6		1		nw.	4 h'r	4 h'r	r'gh	sse.	clear.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Belgic, Hong Kong, China†	30.07	763.8	60	15.6	88	calm			0		8		ne.	0	0			cloudy.
S. S. Gaelic, N. 36° 10′, W. 177° 20′†	30.02	762.5	63	17.2	83	ssw.			5		8		sw.			high	w.	cloudy.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, Savannah, Georgia†	30.15	765.8				calm			0		2			0	0			smoky.
S. S. Seminole, Boston, Mass †	29.82	757.4	50	10.0		nnw.			3		10		nw.	12 h'r	12 h'r			raining.
OREGON IMPROVEMENT COMPANY.																		
S. S. Mississippi, N. 45° 47′, W. 124° 40′†	30 97	761.2	42	5.6	74	w.			3		8		sw.			hv'y	w.	fair.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Columbia, N. 45° 56′, W. 124° 11′†	29.80	756.9	43	6.1	83	wnw.			2		8		wnw.	0	0	long	wnw.	cloudy.
S. S. Oregon, San Francisco, Cal†	30.04	763.0	49	9.4	93	calm			0		8		sw.					foggy.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, San Pedro, Cal†	29.91	759.7	51	10.6	93	ne.			2		10		ne.					foggy.
S. S. Geo. W. Elder, N. 44° 27′, W. 124° 55′†	29.92	760.0	46	7.8		w.			4		4		w.	0	0	sm'h	w.	clear.
S. S. Idaho, N. 47° 40′, W. 124° 49′†	30.09	764.3	41	5.0	82	sw.			6		10		s.			r'gh	w.	rainy.
S. S. Orizaba, N. 35° 09′, W. 120° 43′†	30.02	762.5	55	12.8	87	nw.			2				nw.	0	0	hv'y	sw.	clear.
S. S. State of California, Portland, Oregon†	29.81	757.2	39	3.9	?	s.			4		6		sw.	6 h'r	6 h'r			showery.
S. S. Victoria, N. 39° 25′, W. 473° 12′†	30.09	764.2	49	9.4	85	sw.			2		0					long	w.	clear.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, S. 6° 00′, W. 169° 35′	29.84	757.9	80	26.7	82	e.			2		0			0	0	sm'h		clear.
S. S. City of Rio de Janeiro, N. 14° 53′, W. 92° 40′†	30.15	765.8	80	26.7	82	e.			2		2		e.	0	0	sm'h		fine.
S. S. City of Sydney, Sydney, N. S. W.†	29.98	761.5	72	22.2	71	e.			2		10		ne.			sm'h		drizzling.
S. S. City of Tokio, N. 24° 03′, E. 118° 26′†	30.12	765.0	51	10.6	72	ne.			4		8		ne.			r'gh	ne.	cloudy.
S. S. Colima, Panama, Panama..†	29.90	759.4	79	26.1	78	s.			7		8		ne.					clear.
S. S. Colon, New York, N. Y.*	29.90	759.4	48	8.9		nnw.			2		2		s.	0	0			clear.
S. S. Granada, N. 27° 19′, W. 114° 40′†	29.93	760.2	58	14.4	?	var.			2		10		nnw.					cloudy.
S. S. Zelandia, S. 27° 35′. W. 179° 27′	30.06	763.5	36	17.2	47	e.			2		10			0	0	mod.	wnw.	hazy.
QUEBEC STEAMSHIP COMPANY.																rg'h	ne.	fair.
S. S. Muriel, Trinidad, W. I						calm			0					0	0	sm'h		fair.
S. S. Bermuda, Mayaguez, Porto Rico, W. I.†	30.15	765.8	78	25.6		n.			1		2		e.	0	0			fine.
RED STAR LINE.																		
S. S. Rhynland, Antwerp, Belgium	29.61	752.1	56	13.3	75	sw.			6		8		sw.	0.1	3.			cloudy.
S. S. Switzerland, N. 42° 12′, W. 51° 27′†	30.15	765.8				n.			6		10		n.	0	0	cross	n.	misty.
S. S. Vaderland, N. 49° 51′ W. 5° 27′*†	29.33	745.0	46	7.8		wnw.			6		10		wnw.	3 h'r	light	high	wnw.	overcast.
S. S. Waesland, Jersey City, N. J.	29.92	760.0	51	10.6		nnw.			5		0			0	0			clear.
ROTTERDAM LINE.																		
S. S. Schiedam, N. 43° 12′, W. 46° 01′*	29.94	760.5	55.6	13.1	88	e.			5		8		ese.	3 h'r	3 h'r	r'gh	ne.	cloudy.
S. S. W. A. Scholten, Brouwershaven., Netherlands*	29.33	745.0	52.4	11.3	86	sw.			6		7		sw.	1 h'r	1 h'r	mod.	sw.	cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
THINGVALLA LINE.																		
S. S. Thingvalla, Brooklyn, N. Y.†..	29.99	761.7	49.1	9.5	.....	nnw.	.....	.....	2	.....	10	.....	nnw.	12 h'r	12 h'r	.....	.....	covered.
WHITE STAR LINE.																		
S. S. Celtic, Liverpool, Eng.*†.....	28.95	735.3	46	7.8	76	w.	.....	.....	5	.....	10	.....	wsw.	18 h'r	light	.....	.....	misty.
S. S. Republic, N. 51° 05′, W. 12° 43′†.....	29.52	749.8	53	11.7	100	w.	.....	.....	6	.....	4	.....	w.	shr's	shr's	h'vy	wnw.	fine..
MISCELLANEOUS.																		
Sch. Addie Fuller, Cedar Keys, Florida†.....	30.27	768.8	60	15.6	94	calm	.....	.....	0	0	0	.....	.....	0	0	.....	.....	clear.
Bk. Adelaide, N. 11° 29′, W. 34° 14′*†.....	30.11	764.8	74	23.3	.....	e.	.....	.....	6	.....	2	.....	e.	0	0	r'gh	e.	fair.
Bk. Alpha, N 23° 12′, W. 67° 50′.*†.....	30.16	766.1	76	24.4	.....	ese.	.....	.....	4	.....	3	.....	e.	0	0	mod.	ne.	fair.
Sch. Annie M. Law, N. 43° 11′, W. 42° 00′*†.....	30.10	764.5	59	15.0	82	e.	.....	.....	4	.....	10	.....	.....	3 h'r	h'vy	con.	sw.	raining.
Schr Annie R. Lewis, N 31° 55′, W. 73° 03′*†.....	30.03	762.7	68	20.0	.....	wnw	.....	.....	4	.....	2	.....	w.	2 h'r	h'vy	r'gh	var.	fair.
Bk. Antioch, S. 22° 57′ W. 41° —′*†.....	30.00	762.0	82	27.8	.....	ne.	.....	.....	5	.....	1	.....	ne.	0	0	sm'h	se.	clear.
Schr. Annie M. Smull, N. 10° 22′, W. 30° 06′*†.....	30.10	764.5	76	24.4	.....	ene.	.....	.....	.....	.....	2	.....	e.	0	0	mod.	e.	clear.
Bk. Bergenseren, N. 34° 00′, W. 64° 25′†.....	30.14	765.5	.....	.....	.....	sse.	.....	.....	6	.....	.....	.....	s.	0	0	5	se.	gloomy.
Bk. Celestina, N. 33° 25′, W. 50° 30′*†.....	30.28	769.1	.....	.....	.....	nw.	.....	.....	2	.....	5	.....	ssw.	0	0	mod.	n.	fair.
S. E. J. Spicer, N. 40° 20′, W. 70° 38′*†.....	29.72	754.9	.....	.....	.....	s.	.....	.....	3	.....	.....	.....	.....	8 h'r	8 h'r	long	s.	rain & fog.
Bk. E. L. Pettengill, S. 54° 05′ W. 82° 05′†.....	29.70	754.4	.....	.....	.....	nw.	.....	.....	1	.....	10	.....	nw.	light	light	long	sw.	cloudy.
S. Enoch Train, Bremerhaven, Germany*.....	29.40	746.7	.....	.....	.....	ssw.	.....	.....	7	.....	10	.....	sw.	rain	rain	.....	.....	stormy.
U. S. F. C.S. FishHawk, Smith's Creek, Md†.....	30.12	765.0	49	9.4	78	nw.	.....	.....	4	.....	1	.....	nw.	0.54	13.7	mod.	nw.	clear.
Bk. Freya, N. 22° 24′, W. 63° 17′.....	.....	.....	73	22.8	.....	ene.	.....	.....	3	.....	0	.....	.....	0	0	mod.	ne.	fair.
S. Grecian, N. 42° 19′, W. 11° 20′*†.....	30.20	767.1	56	13.3	.....	w.	.....	.....	6	.....	5	.....	nw.	rain	sq'ls	rg'h	w;nw	
Bk. Geo. Booth, S. 24° 50′, W. 29° 20′*†.....	29.90	759.4	.....	.....	.....	e.	.....	.....	3	.....	.....	.....	.....	0	0	sm'h	.....	clear.
Bk. Granville, N. 10° 02′, W. 32° 12′*†...	30.19	766.8	.....	.....	.....	ne.	.....	.....	3	.....	.....	.....	ene.	0	0	mod.	ene.	clear.
Schr Henry Denison, N. 24° 38′, W. 63° 30′†.....	30.16	766.1	.....	.....	.....	e.	.....	.....	2	.....	2	.....	e.	0	0	r'gh	e.	fair.
Bk. Johanne Auguste, S. 35° 33′, E. 79° 12′ *.....	29.88	758.9	.....	.....	.....	se.	.....	.....	3	.....	2	.....	sse.	0	0	long	ene.	fair.
Bk. Kate Cann, N. 38° 43′, W. 53° 40′.....	.....	.....	.....	.....	.....	se.	.....	.....	5	.....	3	.....	se.	0	0	sm'h	ene.	
Bkt. Kryolith, N. 33° 51′, W. 58° 09′*†.....	30.28	769.1	.....	.....	.....	e.	.....	.....	2	.....	10	.....	ene.	0	0	long	ne.	threatening.
S. S. Lamperis, N. 33° 51′, W. 74° 34′*.....	29.85	758.2	64.5	18.1	92	nw.	.....	.....	6	.....	8	.....	.....	.....	.....	7	con.	gloomy.
Schr. Moravian, N. 9° 22′ W. 79° 00′.....	.....	.....	.....	.....	.....	ne.	.....	.....	.....	.....	.....	.....	ne.	.....	.....	light	ne.	fair.
Bk. Pawashick, N. 16° 18′ W. 51° 00′*†.....	30.35	770.9	75	23.9	86	e.	.....	.....	3	.....	2	.....	e.	.....	.....	mod.	e.	fine.
Bk. Peppina, N. 42°, 28′ E. 16° 44′†.....	29.92	760.0	63	17.2	72	calm	.....	.....	0	.....	5?	.....	sw.	.....	.....	sm'h	.....	cloudy.?
Bk. Pilgrim, S. 40° 30′, E. 5° 20′*†.....	30.25	768.3	.....	.....	.....	n.	.....	.....	3	.....	10	.....	n.	0	0	long	w.	cloudy.
Schr. S. B. Hubbard, Jacksonville, Florida*†.....	30.19	766.8	74	23.3	.....	calm	.....	.....	0	.....	0	.....	.....	1 ½	hour	.....	.....	fine.
Bk. Stella, S. 40° 48′, W. 52° 10′*.....	29.82	757.4	69.8	21.0	93	wnw.	.....	.....	4	.....	3	.....	w.	0	0	mod.	w.	d. clouds.
Bk. Sunbeam, N. 21° 25′. W. 51° 57′*†.....	30.16	766.1	79	26.1	86	e.	.....	.....	3	.....	2	.....	e.	0	0	mod.	e.	clear.
S. Wm. Woodbury, Bremerhaven, Germany*†.....	29.10	739.1	41	5.0	82	s.	.....	.....	4	.....	.....	.....	sse.	.....	.....	.....	.....	



Data, as appearing in the International Bulletin of similar date.

Isobars in *black* exhibit atmospheric pressure at sea-level, and are charted from data as reported by the several observers.

Isotherms in *red* exhibit temperature of air, similarly charted.

Broken or dotted lines indicate that the lines so broken are doubtful.

Arrows, when charted, fly with the wind and exhibit wind-direction and force.

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W. B. Hazen

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

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INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON MARCH 3, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours	.....	.....	30.06	763.4	69.6	20.9	78	nw.	.....	.....	3	.....	2	.....	.....	0	0	fair.	Moiroud.
Algiers	.....	.....	29.95	760.7	60.1	15.6	70	w.	.....	.....	1	.....	0	.....	.....	0	0	clear.	Nicolas.
La Calle	.....	.....	29.91	759.8	62.2	16.8	70	wnw.	.....	.....	2	.....	3	.....	.....	0.197	5.0	pretty fair.	Fonfrède.
Tunis	.....	.....	29.98	761.4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.11	764.8	58.6	14.8	47	nw.	.....	.....	2	.....	1	.....	.....	0	0	very fair.	Dumas.
Tebessa	.....	.....	.....	.....	55.0	12.8	22	nw.	.....	.....	4	.....	2	.....	.....	0	0	fair.	Derché.
Geriville	.....	.....	.....	.....	52.7	11.4	16	wsw.	.....	.....	3	.....	0	.....	.....	0	0	clear.	Lonchamp.
Laghouat	.....	.....	30.18	766.5	56.5	13.6	52	s.	.....	.....	2	.....	1	.....	.....	0	0	very fair.	Herbin.
Biskra	.....	.....	30.13	765.3	66.2	19.0	35	nw.	.....	.....	1	.....	0	.....	.....	0	0	clear.	Malau.
Australian.																			
Melbourne, Victoria	29.95	760.7	30.04	763.0	62.2	16.8	79	s.	14	6.3	.....	.....	10	.....	.....	0	0	dull.	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.08	738.5	29.63	752.5	48.4	9.1	76	se.	.....	.....	1	.....	10	.....	.....	0.020	0.5	raining	Prof. Ivan Stozir
Cracow, I. R Observatory	28.91	734.2	29.67	753.7	48.6	9.2	68	e.	5.6	2.5	.....	.....	2	.....	.....	0	0	.....	Dr. Wierzbicki.
Eperies	28.85	732.7	29.74	755.3	42.1	5.6	88	s.	.....	.....	2	.....	10	.....	.....	0	0	.....	Julius Mikolik.
Gratz	28.39	721.1	29.66	753.3	40.5	4.7	89	n.	.....	.....	2	.....	10	.....	.....	0.114	2.9	.....	Andreas Rospini.
Hermannstadt	28.22	716.9	29.66	753.4	47.1	8.4	78	sse.	.....	.....	3	.....	10	.....	.....	0.197	5.0	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.26	717.9	29.62	752.4	40.5	4.7	79	wnw.	.....	.....	3	.....	10	.....	.....	0	0	gloomy	The Staff.
Lemberg	28.76	730.5	29.75	755.6	47.7	8.7	89	s.	.....	.....	1	.....	8	.....	.....	0.425	10.8	.....	Dr. T. Stanecki.
Pola	29.56	750.8	29.67	753.7	50.9	10.5	75	wsw.	.....	.....	2	.....	7	.....	.....	0.020	0.5	.....	I. R. Hydrographic Office.
Szathmar	29.22	742.1	29.68	753.8	50.7	10.4	65	e.	.....	.....	3	.....	10	.....	.....	0.354	9.0	.....	Joseph Midlinsky, S. J.
Szegedin	29.34	745.1	29.61	752.2	52.5	11.4	88	se.	.....	.....	4	.....	10	.....	.....	0.252	6.4	.....	Karl Stancel.
Trieste	29.57	751.1	29.67	753.7	47.5	8.6	84	sw.	.....	.....	1	.....	10	.....	.....	0.063	1.6	.....	Rieder.
Vienna	28.92	734.6	29.65	753.0	43.9	6.6	81	se.	.....	.....	2	.....	10	.....	.....	0.075	1.9	.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.50	749.3	29.60	751.8	43.7	6.5	86	ese.	10	4.5	.....	.....	6	.....	.....	0	0	d. clouds	W. Boswell.
Armagh, Observatory	29.21	741.9	29.47	748.5	42.1	5.6	83	ne.	12	5.4	.....	.....	10	.....	.....	.....	.....	gloomy	S. Call.
Bidston, Liverpool Obs'y	.....	.....	29.42	747.3	44.9	7.2	72	ese.	11	4.9	.....	.....	9	.....	.....	.....	.....	overcast	John Hartnup.
Bolton, Sharples	28.92	734.6	29.45	748.0	42.9	6.1	75	sse.	6	2.7	.....	.....	10	.....	.....	.....	.....	gloomy	Thomas Mackereth [A.S.
Bradford, Yorkshire	29.04	737.6	29.44	747.8	42.7	5.9	81	se.	.....	.....	1	.....	10	.....	.....	0.01	0.3	overcast	J. McLandsborough, F. R.
Bridgetown, Barbadoes	29.98	761.5	30.00	762.0	80.0	26.7	66	ne.	.....	.....	3	.....	6	.....	.....	.....	.....	gloomy?	Pvt. J. Surgenor, A. H.C.
Cardington	.....	.....	29.42	747.3	46.2	7.9	66	s.	.....	.....	1.0	.....	4	.....	.....	.....	.....	d. clouds	John McLaren.
Chatham, School M. E.	29.31	744.5	29.44	747.8	43.3	6.3	75	se.	.....	.....	2	.....	7	.....	.....	.....	.....	d. clouds	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	29.11	739.4	29.34	745.2	45.8	7.7	73	ne.	.....	.....	3	.....	5	.....	.....	.....	.....	d. clouds	The Staff.
Fort Napier, Natal	27.62	701.5	29.84	757.9	83.4	28.6	49	ne.	.....	.....	3	.....	2	.....	.....	.....	.....	blue sky	Pvt. E. K. Annis, A.H.C.
Free Town, Sierra Leone	29.68	753.9	29.91	759.7	89.0	31.7	56	nw.	.....	.....	1	.....	3	.....	.....	.....	.....	d. clouds	Sergt. John Robinson.
Galway, Queen's College	.....	.....	29.38	746.2	.....	.....	.....	n.	.....	.....	3	.....	10	.....	.....	0.01	0.3	overcast	J. O'Donaghue.
Gibraltar, Mediterranean	30.24	768.1	30.29	769.4	61.4	16.3	81	sw.	.....	.....	3	.....	9	.....	.....	.....	.....	gloomy	Opl. O. Baldwin.
Glasgow, Observatory	29.30	744.2	29.51	749.5	43.9	6.6	75	ene.	.....	.....	5	.....	8 nk	.....	.....	.....	.....	d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.27	743.4	29.44	747.8	46.9	8.3	60	e.	.....	.....	1	.....	5	.....	.....	blank	blank	d. clouds	The Staff.
Guernsey	28.98	736.1	29.28	743.7	41.0	5.0	96	se.	.....	.....	2	.....	10	.....	.....	.....	.....	raining	A. Collenette, F. M. S.
Kew, Observatory	29.40	746.7	29.44	747.8	45.3	7.4	60	se.	12	5.4	.....	.....	5	.....	.....	.....	.....	hazy	The Staff.
Leicester, Museum	29.17	740.9	29.43	747.5	47.0	8.3	59	se.	.....	.....	1	.....	8	.....	.....	.....	.....	d. clouds	J. C. Smith.
Malta, Mediterranean	29.96	761.0	30.04	763.0	60.4	15.8	63	w.	.....	.....	3	.....	4	.....	.....	.....	.....	d. clouds	I. H. Whysall.
Nassau, Bahamas	30.19	766.8	30.24	768.1	70.2	21.2	73	ne.	.....	.....	1	.....	5	.....	.....	.....	.....	d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	28.91	734.3	29.43	747.5	47.2	8.4	62	e.	.....	.....	1	.....	5	.....	.....	.....	.....	d. clouds	John Mac Enail.
Oxford, Radcliffe Obs'y	29.19	741.4	29.42	747.3	46.0	7.8	60	e.	.....	.....	2	.....	6	.....	.....	.....	.....	threatening	The Staff.
Plymouth	29.25	742.9	29.33	745.0	46.7	8.2	73	ene.	.....	.....	5	.....	5	.....	.....	.....	.....	d. clouds	John Merrifield.
Sandwick Manse, Orkneys	.....	.....	29.66	753.4	40	4.4	90	e.	14	6.3	.....	.....	10	.....	.....	.....	.....	misty	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.86	758.4	29.92	760.0	65.6	18.7	43	s.	.....	.....	1	.....	1	.....	.....	.....	.....	blue sky	W. H. Lyne.
Sheffield	29.18	741.2	29.46	748.3	44.1	6.7	77	e.	.....	.....	1	.....	8	.....	.....	0	0	overcast	W. F. Cooper.
Silloth Rectory	29.41	747.0	29.44	747.8	42.1	5.6	84	e.	.....	.....	2	.....	6	.....	.....	0	0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	29.46	748.3	44.0	6.7	67	se.	3	1.3	.....	.....	10	.....	.....	.....	.....	overcast	R. S. J. Perry.
Strathfield Turgiss	29.19	741.4	29.41	747.0	47.3	8.5	65	se.	.....	.....	2	.....	5	.....	.....	.....	.....	d. clouds	Rev. O. H. Griffiths, F.M.S.
Truro, Royal Institution	29.28	743.7	29.34	745.2	54	12.2	60	ne.	.....	.....	4	.....	5	.....	.....	.....	.....	d. clouds	W. Newcombe.
Valencia, Observatory	29.44	747.8	29.46	748.3	46.8	8.2	69	n.	23	10.3	.....	.....	6	.....	.....	blank	blank	d. clouds	The Met'g'l Office.
Canadian.																			
Bathurst, N. B	.....	.....	.....	.....	35.0	1.7	.....	ne.	2	0.9	.....	.....	10 n	.....	.....	0.120	3.0	snowing	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.65	753.1	29.70	754.4	35	1.7	89	e.	15	6.7	.....	.....	10 n	.....	calm	0	0	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	29.59	751.6	29.65	753.1	35	1.7	100	ne.	2	0.9	.....	.....	10 n	.....	calm	2.42	61.5	heavy rain	G. A. Blair.
Cornwall, Ontario	29.64	752.8	29.84	757 9	34.9	1.6	98	ne.	.....	.....	1	.....	10 s	.....	.....	0.026	0.7	cloudy	James Smith, M. A.
Dalhousie, N. B	29.48	748.8	29.65	753.1	33.0	0.6	.....	w.	.....	.....	1	.....	10 n	.....	.....	0.150	3.8	rain; snow	H. A. Johnson.
Father Point, Quebec*	29.80	756.9	29.82	757.4	32	0.0	100	e.	1	0.4	.....	.....	10 n	.....	calm	0.08	2.0	sleeting	J. McWilliams.
Fort Garry, Manitoba*	29.51	749.5	30.45	773.4	— 6	—21.1	100	s.	1	0.4	.....	0	0	.....	.....	0	0	clear	James Stewart.
Fredericton, N. B	29.53	750.0	29.59	751.6	36.1	2.3	91	w.	6	2.7	.....	.....	10 n	.....	.....	2.740	69.6	raining	Prof. Harrison.
Granton, Ontario	29 00	736.6	30.15	765.8	32.1	0.1	98	nw.	2	0.9	.....	0	0	.....	.....	0	0	clear	James Grant.
Halifax, N. S*	29.53	750.0	29.66	753.4	35	1.7	96	e.	10	4.5	.....	.....	10 n	.....	.....	0	0	cloudy	A. Allison.
Hamilton, Ontario	29.68	753.9	30.08	764.0	36.5	2.5	82	w.	.....	.....	1	0	0	.....	.....	0	0	clear	Geo. Dickson, B. A.
Kingston, Ontario*	29.57	751.1	29.92	760 0	36	2.2	85	nw.	8	3.6	.....	.....	8 k	.....	nw.	0.02	0.5	cloudy	A. P. Knight, M. A.
Little Glace Bay, N. S	29.80	756.9	29.84	757.9	25.0	— 3.9	93	sw.	.....	.....	2	6 ck	0	sw.	.....	0	0	fair	C. H. Rigby.
Montreal, Quebec*	29.66	753.4	29.88	758.9	33	0.6	85	calm	0	0	.....	0	8 ks	.....	.....	inap.	inap.	fair	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.34	745.2	30.06	763.5	32	0.0	88	w.	9	4.0	.....	0	0	.....	.....	inap.	inap.	clear	Rev. R. Mosley.
Peterboro, Ontario	29.26	743.2	30.04	763.0	36.2	2.3	80	nw.	.....	.....	4	0	8 ks	.....	.....	0	0	fair	J. Dixon, B. A.
Port Dover, Ontario	29.42	747.3	30.14	765.5	35	1.7	90	calm	0	0	.....	0	0	.....	.....	0	0	clear	H. Morgan.
Port Stanley, Ontario	29.49	749.0	30.16	766.1	35	1.7	85	nw.	8	3.6	.....	0	0	.....	.....	0	0	clear	M. Payne.
Quebec, Quebec*	29.55	750.6	29.88	758.9	25	— 3.9	100	calm	.....	.....	0	.....	fg	.....	.....	0	0	foggy	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.45	748.0	29.92	760.0	34	1.1	88	w.	4	1.8	.....	.....	10 s	.....	.....	0.20	5.1	cloudy	W. H. McIntyre.
Saugeen, Ontario*	29.38	746.2	30.12	765.0	35	1.7	89	w.	9	4.0	.....	0	0	.....	.....	0	0	clear	.....
St. Andrews, N. B	29.53	750.0	29.58	751.3	37	2.8	90	n.	7	3.1	.....	.....	10 k	.....	.....	4.06	103.1	cloudy	.....
St. John, N. B	29.38	746.2	29.55	750.6	38.0	3.3	100	n.	8	3.6	.....	.....	10 n	.....	.....	1.840	46.7	raining	G. Murdock, C. E.
St. Pierre, N. F	.....	.....	29.92	760.0	28.4	— 2.0	.....	n.	.....	.....	1	.....	.....	.....	.....	0	0	.....	N. F. Land, Com't.
Stratford, Ontario	29.82	757.4	30.15	765.8	32.0	0.0	94	calm	0	0	.....	0	0	.....	.....	0	0	clear	C. I. Macgregor, M. A.
Sydney, C. B*	29.84	757.9	29.91	759.7	26	— 3.3	92	e.	2	0.9	.....	9 cs	0	.....	.....	0	0	fair	T. C. Hill, C. E.
Toronto, Ontario*	29.70	754.4	30.09	764.3	35	— 1.7	85	w.	10	4.5	.....	0	0	.....	.....	0	0	clear	Magnetic Observatory.
Windsor, N. S	29.48	748.8	29.58	751.3	39.0	3.9	91	se.	12	5.4	.....	.....	1c n	.....	.....	0.34	8.6	raining	Prof. W. R. Butler.
Woodstock, Ontario	29.05	737.9	30.15	765.8	33.5	0.8	80	w.	11	4.9	.....	0	0	.....	.....	0	0	clear	Prof. Wolverton
Yarmouth, N. S*	29.48	748.8	29.55	750.6	37	2.8	92	nw.	3	1.3	.....	4 k	4 s	w.	n.	0.81	20.6	cloudy	Lt. F. E. Wilmot, R. N.
Sub-series.																			
St. Johns, Newfoundland	29.92	760 0	30.18	766.6	34	1.1	100	ne.	.....	.....	.....	.....	fg	.....	.....	.....	.....	foggy	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	29.77	756.1	29.80	756.9	67.0	19.4	94	calm	18.5	8.3	.....	0	9 ks	.....	.....	0.340	8.6	hazy	John Duthie.
Cape Town, C. G. H. Obs'y	29.91	759.7	29.95	760.7	68.2	20.1	83	wnw.	13	5.8	.....	9	10	.....	.....	0.070	1.8	.....	The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
CHINESE (*Sub-series*).																			
Hankow	30.26	768.6	30.55	776.0	39.9	4.4	87	nnw.			1		10			0	0		N. Titoushkin.
Zi-Ka-Wei, near Shanghai.	30.29	769.4	30.32	770.0	38.7	3.7	71	ne.	1.3	0.6		10 ck	0			0	0	covered.	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	29.70	754.3	29.74	755.5	37.0	2.8	96	se.	13	6			1c					foggy	Oversergent Fischer.
Fanöe	29.61	752.1	29.63	752.6	46.8	8.2	77	sse.			4		3						Overloerer Lauridsen.
Godthaab, Greenland	29.78	756.5	29.83	757.6	19.2	— 7.1		ssw.			6		10					snowing	S. Kleinschmidt.
Stykkisholm, Iceland	29.15	740.3	29.19	741.4	31.6	— 0.2	94	sw.			2		10					snowing	A. O. Thorlacius.
Thorshavn	29.61	752.0	29.64	752.9	38.8	3.8	62	s.	8	4			10						Overloerer Bergh.
Vestervig	29.58	751.4	29.67	753.7	32.2	0.1	94	ne.			4		10						Loearer Oesterboi.
FRENCH.																			
Agen, Normal School	28.84	732.4	29.48	748.8	50.0	10	66	wsw.			1		n;kn		w.	0.142	3.6		M. Labroue, Director.
Alençon, Normal School	28.77	730.8	29.32	744.8	43.2	6.2	94	s.			2		n		nw.	0.205	5.2		M. Nicot, Director.
Arras, Engineer School	29.18	741.1	29.44	747.7	42.6	5.9	82	sse.			1		k		s.	0.067	1.7		M. Klein, Commandant.
Avignon, Normal School	29.60	751.7	29.67	753.7	57.2	14	47	se.			2		5		s.	0	0	cloudy	M. Giraud, Director.
Bar-sur-Seine	28.94	735.0	29.49	749.1	46.2	7.9	86	s.			1		10			0.169	4.3	covered	M. Saillard, Director.
Beauvais, Normal School	29.22	742.1	29.48	748.9	41.9	5.5	84	se.			1		10		sse.	0.031	0.8	raining	M. Frère Eugène Mari.
Besançon, Normal School	28.65	727.8	29.54	750.2	50.0	10	79	se.			1		n		n.	0	0		M. Gobin, Director.
Bordeaux, Observatory	29.13	740.0	29.39	746.5	48.2	9.0	81	ssw.			1		10		w.	0.752	19.1	raining	M. Rayet, Director.
Bourges, Normal School	28.84	732.4	29.38	746.3	45.5	7.5	85	w.			3		n		w.	0.098	2.5		M. Postel, Director.
Brest, Naval Observatory	29.01	736 9	29.26	743.1	42.8	6.0	94	ne.			1		10		ne.	0.087	2.2	raining	M. de Kermaree, Dir.
Caen, Normal School	29.21	741.9	29.28	743.8	42.8	6	88	sse.			2		8		sse.	0.008	0.2	very cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.12	739.6	29.43	747.6	46.6	8.1	70	sse.			4		8	sw.	s.	0.157	4.0	very cloudy	M. Jadot, Director.
Charleville, Normal School	28.98	736.1	29.49	749.1	43.9	6.6	65	sse.			1		8			0.28	7.	¾ covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.14	714.7	29.49	749.1	46.4	8.0	61	se.			3		1c		sw.	0.008	0.2	covered	M. Alluard, Director.
Cluny, Normal School	28.70	729.0	29.55	750.6	47.3	8.5	85	nw.			2		4		ne.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	28.69	728.6	29.55	750.6	48.6	9.2	48	ese.			1		5	ese.	ese.	0.16	4	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.16	689.8	29.70	754.4	46.4	8	46	nw.			1	0	2 kn		nw.	0.016	0.4		M. Jeangirard, Director.
Gréasque, du. Rhone	28.57	725.7	29.70	754.3	50.9	10.5	50	s.			2		5		se.	0.43	11.		M. Kina, Director.
Grenoble, Normal School	28.84	732.6	29.61	752.0	52.0	11.1	31	sw.			3		ks		s.	0	0		M. Ablard, Director.
Guéret, Normal School	27.83	706.8	29.47	748.6	42.6	5.9	70	sw.			3		n		sw.	0.12	3.		M. Rivoire, Director.
Lamballe, Normal School	28.94	735.1	29.22	742.1	43.5	6.4	97	ese.			1		1c		ese.	0.138	3.5	light rain	M. Ollitrault, Director.
Lescar, Normal School	28.91	734.2	29.47	748.4	56.1	13.4	64	sw.			2		10			0.110	2.8	covered	M. Chauvin, Director.
Lorient, Naval Observatory	29.12	739.7	29.22	742.3	48.2	9.0	86	calm			0		8		sw.	0.657	16.7	¾ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.51	724.2	29.57	751.1	47.8	8.8	56	s.			3			wsw.		0	0		M. André, Director.
Mans, Normal School	29.00	736.7	29.32	744.6	42.4	5.8	93	nw.					10			0.209	5.3	covered	M. Piboeu, Director.
Marseille, Observatory	29.44	747.8	29.71	754.6	57.4	14.1	77	se.			2		7		ssw.	0	0		M. Stephan, Director.
Montlouis l'instituteur	24.38	619.3	29.22	742.3	32.4	0.2	84	wsw.	24.2	10.8			9		s.	0.551	14.0		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.48	748.8	29.61	752.2	53.6	12	65	n.			2		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	28.76	730.4	29.54	750 3	46.4	8	57	sse.			1	0	8 kn		sw.	0.138	3.5	very cloudy.	M. Hasse, Director
Nantes, Observatory	29.11	739.4	29.27	743.4	46.8	8.2	86	sw.			2-3		10 n		sw.	0.236	6.0	rain & hail	M. Larocque, Director.
Perpignan, Observatory	29.50	749.2	29.61	752.0	50.0	10.0	66	s.	3.8	1.7			10	wnw.		0.126	3.2		Dr. Fines, Director.
Pic-du-Midi, Summit	20.70	525.9			14.5	— 9.7		sw.			2-3		10		sw.	0.677	17.2	snowy	Gen'l de Nansouty, Dir.
Privas, Normal School	28.60	726.5	29.67	753.6	47.5	8.6	65	s.			1		1c	sw.	s.	0	0	covered	M. Taillen.
Puy de Dôme Obs'y, Summit	24.54	623.4			28.8	— 1.8	100	ssw.			8		10			0.087	2.2	foggy	M. Alluard, Director.
Rochefort, Naval Obs'y	29.29	743.9	29.32	744.7	49.5	9.7	81	sw.			2		10			0.303	7.7	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.03	737.4	29.29	743.9	47.8	8.8	84	sw.			1		1c			0.51	13.	covered	M. Mouillot, Director.
Rodez, Normal School	27.39	695.8	29.54	750.3	44.2	6.8	71	se.			2		10			0.697	17.7	covered	M. Serger, Director.
Rouen, Normal School	29.35	745.4	29.39	746.6	41.7	5.4	84	se.			1		10			0	0	covered	M. Platrier, Director.
Saint Maur, Observatory	29.26	743.1	29.42	747.3	41.0	5.0	90	se.			2		10		sse.	0.094	2.4		M. Renou, Director.
Toulouse, Observatory	28.88	733.5	29.59	751.6	49.3	9.6	73	sse.			2		10		w.	0	0	covered	M. Baillaud, Director.
Versailles, Observatory	28.91	734.2	29.40	746.7	39.9	4.4	90	s.			2					0.390	9.9		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.13	739.9	29.42	747.3	40.8	4.9	97	se.			2		10		sse.	0.138	3.5	raining	M. Marié Davy, Director
GERMAN.																			
Bamberg	28.81	731.7	29.65	753.1	41.9	5.5	73	w.			2	0	7 s			0	0		Prof. Dr. Hoh.
Berlin	29.46	748.3	29.63	752.7	50.7	10.4	58	s.			1		3			0	0		Prof. Dr. Arndt.
Breslau	29.18	741.2	29.71	754.5	49.1	9.5	61	sse.			2		3			0	0	solar halo	Royal University Obs'y.
Carlsruhe	29.18	741.2	29.62	752.3	47.1	8.4	52	sw.			1		7	sw.		0	0		Albert Senz.
Cassel	28.90	734.1	29.61	752.2	40.5	4.7	87	s.			2		8	s.		0	0		Dr. H. Möhl.
Frankfort on the Main	29.26	743.1	29.62	752.3	47.3	8.5	66	s.			1		6			0.059	1.5		Physical Society.
Friedrichshafen	28.21	716.6	29.66	753.3	44.2	6.8	65	s.			2		1	w.		0	0		Wilhelm, Chief Tel.
Hamburg	29.54	750.2	29.63	752.6	46.8	8.2	74	se.			2		6			0.004	0.1		E. Preller.
Kiel	29.61	752.1	29.63	752.5	44.4	6.9	76	ese.			1		7			0.039	1.0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.22	742.3	29.64	752.9	50.0	10.0	51	se.			1		1			0.004	0.1		H. Leppig, Asst.
Magdeburg	29.45	748.0	29.64	752.8	51.1	10.6	58	se.			1	1 c	0			0.067	1.7		Dr. Assmann.
Memel	29.72	755.0	29.77	756.2	34.5	1.4	74	wnw.			2		10 s						Issermann.
Munich	27.84	707.2	29.68	753.9	39.2	4.0	77	nw.			1		8	sw.		0.016	0.4		Central Station
Neufahrwasser	29.75	755.6	29.76	756.0	39.7	4.3	85	nne.			2		10	w.		0.012	0.3		A. Lothes.
Neustadt, Palatinate	29.09	738.9	29.61	752.1	45.5	7.5	70	s.			2		8			0	0		Dicknether.
Stuttgart	28.66	728.0	29.56	750.7	46.4	8.0	59	n.			1		4	w.		0	0		Prof. Dr. Schoder.
Wustrow	29.68	753.8	29.70	754.4	48.0	8.9	78	ese.			1	0	5 k			0	0		Profs. Brandes & Reimer.
GREEK.																			
Athens	29.59	751.5	29.98	761.4	62.2	16.8		s.			4.0		4			0.335	8.5	misty	Schmidt & Wourlisch.
INDIAN.																			
Bellary	28.34	719.8			93.3	34.1	17	nw.	3.5	1.6		0	0			0	0	blue sky	
Kurrachee	29.94	760.5	30.00	761.9	74.1	23.4	40	sw.	21	9.4			0			0	0	blue sky	
Deesa	29.43	747.5	29.90	759.6	82.0	27.8	26	nnw.	9.1	4.1			0			0	0	blue sky	
Bombay	29.89	759.1	29.92	760.1	75.7	24.3	45	nw.	18.0	8.0			0			0	0	blue sky	
Poona, Yarrowda	27.98	710.7	29.82	757.5	81.9	27.7	29	wnw.	18.0	8.0			0			0	0	blue sky	
Belgaum	27.32	694.0	29.84	757.9	80.8	27.1	25	sw.	10.0	4.5			0			0	0	blue sky	
Lahore	29.21	742.0	29.97	761.2	71.8	22.1	34	ese.	2.0	0.9			2			0	0		
Roorkee	28.99	736.4	29.91	759.6	72.0	22.2	30	nw.	3.0	1.3			1			0	0		
Agra	29.35	745.6	29.92	760.0	78.2	25.7	18	w.	5.7	2.6			0			0	0		
Nagpur	28.78	731.1	29.81	757.1	88.7	31.5	22	nw.	4.7	2.1			0			0	0	blue sky	
Jubbulpore	28.52	724.3	29.86	758.5	83.3	28.5	20	nw.	2.2	1.0			0			0	0	blue sky	
Lucknow	29.48	748.8	29.86	758.3	81.2	27.3	16	sse.	5.6	2.5			0			0	0	misty	
Allahabad	29.54	750.3	29.85	758.2	80.3	26.8	27	w.	3.5	1.6			0			0	0	blue sky	
Patna	29.63	752.6	29.82	757.4	78.1	25.6	59	ne.	3.6	1.6			6	ne.	ne.	0.01	0.3	d. clouds	
Hazaribagh	27.76	705.1	29.76	755.8	79.8	26.6	45	sw.	8.8	3.9			0			0	0	blue sky	
Guttack	29.75	755.6	29.83	757.7	87.1	30.6	31	ssw.	3.5	1.6			2			0	0	d. clouds	
Calcutta, Alipore	29.73	755.2	29.75	755.7	84.3	29.1	57	ssw.	7.0	3.1			3	w.	w.	0	0	d. clouds	
Dhubri	29.64	752.8	29.76	755.9	76.1	24.5	63	calm	2.3	1.0			0			0.01	0.3	blue sky	
Chittagong	29.76	755.9	29.85	758.2	77.7	25.4	65	sw.	2.9	1.3			0			0	0	blue sky	
Sibsagar	29.50	749.3	29.85	758.2	62.9	17.2	89	ne.	3.1	1.4			8	w.	w.	0.28	7.1	d. clouds	
Jeypore	28.47	723.0	29.92	760.0	76.9	24.9	24	n.	6.2	2.8			0			0	0	blue sky	
Zanzibar, Africa	29.80	756.9			85.7	29.8	60	nne.	11.6	5.2			4		ne.	0	0	d. clouds	
Trichinopoly	29.58	751.3			93.0	33.9	26	ese.	2	0.9			3			0	0	d. clouds	
ITALIAN.																			
Udine	29.23	742.5	29.65	753.0	44.6	7.0	78	e.	2.5	1.1			10			0.220	5.6		Prof. Giovanni Clodig.
Milan	29.15	740.5	29.68	753.8	50.4	10.2	65	w.	8.7	3.9			6	wsw.		0	0		Prof. Schiaparelli.
Padua	29.53	750.1	29.64	752.9	49.3	9.6	76	wnw.	19.2	8.6			9	w.		0.362	9.2		Prof. Dott. Lorenzoni.
Moncalieri	28.72	729.5	29.64	752.9	49.6	9.8	65	ese.	3.1	1.4			6	nne.		0	0		Prof. P. F. Denza.
Genoa	29.51	749.6	29.71	754.5	51.8	11.0	68	se.	8.1	3.6			4	s.		0.346	8.8		Prof. G. M. Garibaldi.
Mondovi	27.69	703.4	29.63	752.7	49.3	9.6	38	ne.			4		1	wnw.		0.146	3.7		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
ITALIAN.—Continued.																			
Pesaro	29.63	752.6	29.68	753.8	54.7	12.6	48	sw.	14.3	6.4	.....	.....	8	.....	.....	0	0	.....	Prof. Luigi Guidi.
Florence	29.47	748.4	29.72	754.9	52.7	11.5	59	w.	.....	.....	4	.....	10	.....	.....	0.331	8.4	.....	Prof. Costantino Pitter.
Leghorn	29.61	752.1	29.70	754.3	54.9	12.7	64	wsw.	12.5	5.6	.....	.....	9	w.	.....	0.366	9.3	.....	Prof. P. Monte.
Rome	29.63	752.5	29.80	756.9	56.8	13.8	54	wsw.	5.6	2.5	.....	.....	6	.....	.....	0.311	7.9	.....	Prof. P. S. Ferrari.
Lecce	29.55	750.6	29.81	757.1	53.2	11.8	81	s.	21.7	9.7	.....	.....	9	w.	.....	0.339	8.6	.....	Prof. G. de Giorgi.
Cosenza	29.01	736.8	29.91	759.7	51.1	10.6	72	ese.	3.8	1.7	.....	.....	10	se.	.....	0.551	14.0	.....	Prof. D. Conti.
Cagliari	29.67	753.6	29.86	758.5	59.4	15.2	46	wnw.	.....	.....	4	.....	3	w.	.....	0.161	4.1	.....	Prof. A. Pacinotti.
Palermo	29.72	754.8	29.97	761.2	59.0	15.0	43	wsw.	13.0	5.8	.....	.....	1	.....	.....	0.256	6.5	.....	Prof. G. Ciaccia'tore.
Syracuse	29.88	759.0	29.93	760.1	61.9	16.6	59	w.	13.0	5.8	.....	.....	5	w.	.....	0	0	.....	Prof. Vincenzo Guiliano.
Sub-series.																			
Naples, S. R	29.32	744.8	29.85	758.3	50.4	10.2	84	ssw.	0.7	0.3	.....	.....	9	w.	.....	0.476	12.1	.....	Prof. T. Brioschi.
Stelvio	21.73	552.0	.....	.....	23.2	— 4.9	71	ne.	.....	.....	2	.....	10	.....	.....	0.154	3.9	misty	Prof. P. F. Denza.
Valdobbia	21.73	552.0	.....	.....	22.3	— 5.4	62	ne.	.....	.....	2	.....	2	.....	.....	0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Aomori	30.03	762.7	30.07	763.8	23.0	— 5.0	77	sse.	3.6	1.6	.....	ck	9 s	.....	.....	0	0	cloudy	K. Ogawa.
Hakodate	30.02	762.5	30.03	762.7	30.0	— 1.1	72	nne.	3.0	1.3	.....	.....	10	.....	.....	0	0	overcast	
Hiroshima, I. M. Obs'y	30.05	763.3	30.06	763.5	39.0	3.9	77	nne.	5.0	2.2	.....	0	0	.....	.....	0	0	clear	K. Sasaki.
Kanazawa	29.96	761.0	30.07	763.8	37.3	2.9	88	sse.	4.5	2.0	.....	ck	9 ks	w.	w.	0	0	cloudy	S. Endo.
Kioto	29.88	758.9	30.06	763.5	39.0	3.9	82	calm	0	0	.....	10 ck;cs	0	.....	.....	0	0	cloudy	M. Tojima.
Kochi	30.02	762.5	30.05	763.3	44.3	6.8	65	wnw.	3.3	1.5	.....	1c;ck	0	.....	.....	0	0	clear	
Nagasaki, I. M. Obs'y	29.88	758.9	30.09	764.3	43.2	6.2	83	calm	0	0	.....	4 ck	0	.....	.....	0	0	clear	S. Takehayashi.
Niigata	30.04	763.0	30.08	764.0	32.0	0.0	77	n.	1.4	0.6	.....	2 ck	0	wsw.	.....	0	0	fair	
Nobiru	30.06	763.5	30.07	763.8	35.2	1.8	74	wnw.	10.1	4.5	.....	ck	8 s	.....	.....	0	0	fair	H. Midzushina.
Sapporo	.....	.....	.....	.....	29.0	— 1.7	64	s.	5.4	2.4	.....	.....	2	.....	.....	0	0	clear	
Tokei Obs'y, Yeddo	30.02	762.5	30.09	764.3	36.5	2.5	94	calm	0	0	.....	.....	10 n	.....	.....	0.098	2.5	raining	The Staff.
Wakayama	30.00	762.0	30.06	763.5	42.0	5.9	74	nne.	11.8	5.3	.....	8ck;cs	0	.....	.....	0	0	cloudy	Y. Kuwamuea.
MAURITIUS.																			
Mauritius Observatory	29.64	752.8	29.82	757.4	77.4	25.2	81	ese.	17.5	7.8	.....	.....	toks;n	.....	ese.	1.80	45.7	drizzling	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.74	602.9	29.94	760.9	56.3	13.5	72	s.	.....	.....	.....	0	0	.....	.....	0	0	clear	Vicente Fernandez.
Leon	24.45	621.0	30.19	766.7	54.0	12.2	71	nnw.	.....	.....	2	0	0	.....	.....	0	0	foggy	Prof. M. Leal.
Mazatlan	29.80	757.0	30.06	763.6	63.0	17.2	91	ese.	0.9	0.4	.....	0	0	.....	.....	0	0	clear	F. Quijano, C. E.
Mexico, Central Obs'y	23.14	587.6	30.21	767.4	53.6	12.0	60	calm	0	0	.....	0	0	.....	.....	0	0	clear	M. Tena, M. D.
Morelia	24.25	615.9	30.40	772.1	56.1	13.4	84	e.	.....	.....	2	1	1	s.	s.	0	0	fine	The Staff.
Pabellon, Aguascallentes	24.01	609.9	30.13	765.2	48.7	9.3	53	calm	0	0	.....	0	0	.....	.....	0	0	.....	M. V.de Leon, M. E.
Puebla, Catholic Institute	23.46	595.8	30.28	769.1	48.2	9.0	80	calm	0	0	.....	0	0	.....	.....	0	0	fine	Prof. P. Spina.
San Luis Potosi	24.26	616.0	30.27	768.9	51.6	10.9	47	ese.	.....	.....	1	1	5	w.	w.	0	0	½ clouded	G. Barroeta, M. D.
Vera Cruz	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Zacatecas	22.60	573.9	30.27	768.8	54.7	12.6	57	calm	0	0	.....	0	0	.....	.....	0	0	fine	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.52	749.8	29.52	749.8	45.3	7.4	.....	s.	.....	.....	4	.....	.....	.....	.....	0.020	0.5	.....	
Groningen	29.52	749.9	29.58	751.3	42.4	5.8	.....	s.	.....	.....	1	.....	.....	.....	.....	0.059	1.5	.....	
Helder	29.53	750.1	29.53	750.1	42.8	6.0	.....	s.	.....	.....	1	.....	.....	.....	.....	0.091	2.3	.....	
Hellevoetsluis	29.51	749.5	29.51	749.5	44.8	7.1	77	sse.	.....	.....	2	.....	.....	.....	.....	0	0	.....	
Utrecht	29.51	749.6	29.56	750.8	45.5	7.5	71	ssw.	.....	.....	2	.....	8	.....	.....	0.067	1.7	very cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.65	753.2	29.72	754.8	32.4	0.2	50	nw.	4	2	.....	.....	4	.....	.....	0	0	.....	
Brono	29.74	755.3	29.78	756.3	26.2	— 3.2	53	e.	4	2	.....	.....	0	.....	.....	0	0	.....	
Christiania	29.66	753.4	29.82	757.3	24.8	— 4.0	66	sse.	4	2	.....	.....	9	.....	.....	0	0	.....	
Gjesvier	29.45	748.1	29.48	748.7	30.2	— 1.0	.....	sw.	.....	.....	7	.....	9	.....	.....	.....	.....	.....	
Lodingen	29.69	754.0	29.73	755.2	27.1	— 2.7	60	sw.	.....	.....	6	.....	3	.....	.....	0	0	.....	
PORTUGUESE.																			
Angra, Azores	.....	.....	.....	.....	60.8	16.0	81	w.	8.7	3.9	.....	.....	2	.....	.....	0	0	.....	Dr. J. A. Sampaio.
Campo Major	29.189	741.1?	30.217	767.3?	47.3	8.5	94	ssw.	30.4	13.6	.....	.....	10	.....	.....	0.087	2.2	.....	Dr. A. M. R. dos Santos.
Funchal, Maderia	30.32	770.0	30.41	772.3	61.2	16.2	58	sw.	2.5	1.1	.....	.....	7	.....	.....	0	0	.....	Capt. D. A. de Cunha.
Lisbon, Observatory	29.52	749.8	29.88	759.0	54.0	12.2	86	wsw.	34.9	15.6	.....	.....	10	.....	.....	0.280	7.1	light rain	The Staff.
Ponta Delgada, Azores	30.41	772.5	30.46	774.3	65.5	18.6	66	wnw.	8.7	3.9	.....	.....	4	.....	.....	0	0	.....	
Saint Paul de Loando	29.70	754.3	29.89	759.3	84.2	29.0	83	wsw.	1.8	0.8	.....	.....	4	s.	.....	0	0	.....	
Serra da Estrella	24.78	629.5	29.62	752.3	30.6	— 0.8	100	wnw.	.....	.....	6	.....	.....	.....	.....	.....	.....	snow & fog	
RUSSIAN.																			
Akmolinski	29.30	744.2	30.51	775.0	1.9	—16.7	95	ssw.	4	2	.....	4 cs	0	.....	.....	0	0	light clouds	Major K. Lasarew.
Archangel	30.06	763.6	30.08	764.1	10.8	—11.8	82	e.	2	1	.....	.....	6 ks	.....	.....	0	0	.....	Capt. Sselliwerstow.
Astrakhan	30.32	770.1	30.24	768.0	37.8	3.2	85	calm	0	0	.....	10 cp	0	.....	.....	blank	blank	heavy clouds	Capt. Wisganow.
Barnaul	29.89	759.2	29.43	772.9	23.7	— 4.6	93	sw.	4	2	.....	.....	10	.....	.....	0.004	0.1	.....	Meteorological Obs'y.
Dorpat	29.34	745.2	29.59	751.5	33.6	0.9	92	wsw.	11	5	.....	.....	10 n	.....	.....	0.043	1.1	.....	Observatory.
Ekaterinburg	29.13	739.9	30.14	765.6	27.1	— 2.7	51	sw.	9	4	.....	.....	10	.....	.....	0.012	0.3	.....	Meteorological Obs'y.
Kasan	29.81	757.2	30.10	764.5	22.5	— 5.3	91	s.	7	3	.....	.....	10	.....	.....	0.051	1.3	snowing	Observatory.
Kertch	29.97	761.3	29.99	761.8	45.5	7.5	93	s.	13	6	.....	0	5 k	.....	.....	0	0	.....	Lagorio & Sastyrez.
Kieff	29.18	741.1	29.82	757.3	48.0	8.9	70	e.	4	2	.....	c;ck	6 ks	.....	.....	0.512	13.0	.....	Observatory.
Lugan	29.78	756.5	29.99	761.7	40.6	8.1	77	ssw.	18	8	.....	.....	5	.....	.....	0	0	.....	Meteorological Obs'y.
Moscow	29.19	741.4	29.68	753.8	36.0	2.2	91	s.	4	2	.....	.....	10 s	.....	.....	0.016	0.4	.....	Meteorological Obs'y.
Nikolaiev	29.89	759.1	29.96	760.9	42.1	5.6	91	nnw.	9	4	.....	.....	10 n	.....	.....	0	0	.....	Capt. Kurdakow.
Nikolaievsk, on the Amoor	29.98	761.6	30.07	763.8	10.0	—12.2	85	calm	0	0	.....	.....	10	.....	.....	0.012	0.3	.....	Lieut. Iwanow.
Pekin, China	30.15	765.7	30.29	769.3	39.7	4.3	31	nw.	7	3	.....	2 cs	0	.....	.....	0	0	.....	Physical Observatory.
St. Petersburg	29.60	751.9	29.62	752.3	24.4	— 4.2	77	ene.	9	4	.....	0	5 ks;n	.....	.....	0.039	1.0	.....	Central Physical Obs'y.
Tashkend, Laboratory	28.79	731.2	30.48	774.4	24.4	— 4.2	81	calm	0	0	.....	.....	10	.....	.....	0	0	.....	Teich, A. M.
Tiflis	28.73	729.8	30.15	765.7	58.8	14.9	33	nw.	13	6	.....	.....	0	.....	.....	0	0	.....	Physical Observatory.
Vladivostok	29.93	760.3	30.00	762.0	25.5	— 3.6	56	n.	2	1	.....	0	0	.....	.....	0	0	.....	
Warsaw	29.32	744.7	29.74	755.5	49.0	9.8	60	sse.	7	3	.....	0	5 k;ks	.....	.....	.....	.....	.....	Astronomical Obs'y.
Wilna	29.34	745.1	29.76	755.9	44.2	6.8	74	wsw.	2	1	.....	.....	7	.....	.....	0.004	0.1	.....	Berg, Assistant.
Yeniseisk	29.98	761.4	30.28	769.1	28.2	— 2.1	78	s.	9	4	.....	.....	10	.....	.....	0.012	0.3	snowing	M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	29.53	750.0	29.63	752.7	55.8	13.2	63	w.	6.9	3.1	.....	.....	10	.....	.....	0	0	covered	Antonio Rave, Director.
Bilbao, Met. Obs'y	29.46	748.2	29.52	749.7	50.7	10.4	79	nw.	4.9	2.2	.....	.....	10	.....	.....	0	0	covered	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	26.56	674.7	29.58	751.4	39.2	4.0	87	w.	22.4	10.0	.....	.....	10	.....	.....	0.260	6.6	raining	Domingo Martin.
Madrid, Royal Obs'y	27.47	697.8	29.73	755.1	45.0	7.2	82	sw.	44.7	20.0	.....	.....	10	.....	.....	0.020	0.5	rainy	The Staff.
Murcia, Met. Obs'y	29.72	754.8	29.87	758.6	59.7	15.4	55	wnw.	9.2	4.1	.....	5	4	.....	.....	0	0	almost cov.	Olayo Diaz, Director.
Santiago, Met. Obs'y	28.67	728.1	29.58	751.2	43.0	6.1	81	w.	10.5	4.7	.....	.....	10	.....	.....	0.677	17.2	raining	R. Gil Vallanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I	30.07	763 8	30.14	765.5	70.2	21.2	86	calm	0	0	.....	1 ck	2 k	wnw.	e.	0	0	fair	Benito Vines, S. J.
Manilla, Philippine Islands	29.86	758.4	29.91	759.8	78.9	26.1	73	se.	9.9	4.4	.....	3 cs	2 ck	.....	ene.	0	0	fair	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.02	762.5	30.12	765.1	58.3	14.6	76	sw.	11.1	5.0	.....	5	4	w.	sw.	0.247	6.3	.....	Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	29.97	761.1	30.06	763.4	71.6	22.0	94	calm	0	0	.....	3 s	2 k	e.	e.	0.047	1.2	.....	Manuel Maeu.
Tuguegarao, Philippine Id's	29.82	757.4	29.95	760.7	75.0	23.9	76	nnw.	8.3	3.7	.....	.....	10 ks	.....	ssw.	0	0	covered	José L. Yrastorza.
SWEDISH																			
Haparanda	29.91	759.8	29.95	760.8	8.2	—13.2	92	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	
Umea	29.81	757.1	29.86	758.4	20.5	— 6.4	90	ne.	.....	.....	4	.....	0	.....	.....	0	0	.....	
Hernosand	29.76	755.9	29.81	757.2	22.5	— 5.3	73	ne.	.....	.....	2	.....	8	.....	.....	0	0	.....	
Stockholm	29.60	751.9	29.78	756.4	20.8	— 6.2	64	nnw.	.....	.....	4	.....	10	.....	.....	.....	.....	snowing	
Wisby	29.69	754.2	29.75	755.7	25.5	— 3.6	78	n.	.....	.....	2	.....	5	.....	.....	0.126	3.2	.....	
Sub-series.																			
Upsala	29.69	754.2	29.78	756.4	20.5	— 6.4	83	nnw.	9.6	4.3	.....	.....	10	.....	.....	0	0	.....	S. G. Fineman.
SWISS.																			
Geneva	28.17	715.4	29.60	751.8	51.3	10.7	32	sw.	.....	.....	5	.....	.....	.....	.....	0	0	cloudy	The Observatory.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec.	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	OBSERVERS.
TURKISH.																			
Constantinople	.....	.....	29.98	761.4	63.0	17.2	45	sw.	6	2.5	.....	.....	1	.....	sw.	0	0	.....	The Observatory.
Valona	.....	.....	29.89	759.2	51.4	10.8	.....	sw.	.....	.....	1	.....	10	.....	.....	0.67	17.	covered	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	30.21	767 2	61.2	16.2	66	nne.	.....	.....	1	0	0	.....	.....	0	0	.....	Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	29.80	756.9	29.90	759.4	39.5	4.2	81	w.	2	0.9	.....	.....	10s;sk	.....	w.	0	0	cloudy	J. O. Barnes.
Alpena, Michigan	29.50	749.3	30.20	767.1	31	— 0.6	78	nw.	13	5.8	.....	0	0	.....	.....	0.02	0.5	clear	Jas. J. Fitzgerald.
Atlanta, Georgia	29.05	737.9	30.26	768.6	56.5	13.6	51	nw.	9	4.0	.....	0	0	.....	.....	0	0	clear	H. Hall.
Atlantic City, New Jersey	29.92	760.0	29.93	760.2	49.1	9.5	68	w.	7	3.1	.....	0	0	.....	.....	0	0	clear	Jas. M. Watson.
Augusta, Georgia	30.06	763.5	30.26	768.6	47.4	8.6	86	calm	0	0	.....	0	sk.	.....	.....	0	0	dense smoke	John Healy.
Baltimore, Maryland	30.00	762.0	30.04	763.0	53	11.7	66	nw.	3	1.3	.....	0	fg.	.....	.....	0	0	clear	Robert Seyboth.
Barnegat, New Jersey	29.90	759.4	29.92	760.0	50.3	10.2	73	w.	12	5.4	.....	0	0	.....	.....	0	0	clear	Chas. F. Merritt.
Bismarck, Dakota	28.38	720.8	30.30	769.6	35	1.7	100	se.	6	2.7	.....	.....	10 n	.....	.....	0.02	0.5	light snow	Cyrus Cramer.
Boise City, Idaho	27.15	689.6	30.07	763.8	26	— 3.3	88	n.	1	0.4	.....	.....	10 s	.....	calm	0	0	cloudy	B. E. Light.
Boston, Massachusetts	29.67	753.6	29.83	757.7	38.5	3.6	79	w.	9	4.0	.....	8 k	hz.	w.	.....	0.40	10.2	cloudy	O. B. Cole.
Brownsville, Texas	30.01	762.2	30.06	763.5	69	20.6	100	e.	2	0.9	.....	.....	10 s	.....	se.	0	0	cloudy	J. C. Galloway.
Buffalo, New York	29.35	745.5	30.14	765.5	36.2	2.3	89	s.	7	3.1	.....	0	sk.	.....	.....	0	0	clear	Wm. Finn.
Burlington, Vermont	29.58	751.3	29.89	759.2	35.7	2.1	93	se.	1	0.4	.....	.....	10 n	.....	se.	0.03	0.8	sleeting	G. C. Schaeffer.
Cairo, Illinois	29.80	756.9	30.22	767.6	49.7	4.8	88	calm	0	0	.....	0	0	.....	.....	0	0	clear	W. H. Ray.
Campo, California	27.45	697.2	30.06	763.5	38.8	3.8	92	sw.	8	3.6	.....	.....	10 n	.....	sw.	0.05	1.3	light rain	W. H. Clendenon.
Camp Thomas, Arizona	27.18	690.4	29.96	761.0	44	6.7	68	s.	.....	.....	1	3 cs	2 ks	w.	w.	0	c	fair	J. T. Fitzgerald.
Cape Henry, Virginia	30.03	762.7	30.05	763 3	57	13.9	45	sw.	12	5.4	.....	3 c	0	.....	.....	0	0	clear	J. E. Lanouette.
Cape May, New Jersey	29.96	761.0	30.00	762.0	47	8.3	77	w.	20	8.9	.....	0	0	.....	.....	0	0	clear	W. Bolten.
Castroville, Texas	29.28	743.7	30.11	764.8	64	17.8	93	se	4	1.8	.....	.....	10 n	.....	.....	0.01	0.3	light rain	T. Jones.
Cedar Keys, Florida	30.20	767.1	30.22	767.6	62	16.7	87	e.	4	1.8	.....	0	0	.....	.....	0	0	clear	F. W. Mixer.
Champaign, Illinois	29.39	746.5	30.25	768.3	45.8	7.7	60	ne.	16	7.2	.....	.....	10 s	.....	ne.	0	0	cloudy	L. A. Welsh.
Charleston, S. Carolina	30.16	766.1	30.22	767.6	54	12.2	86	w.	1	0.4	.....	0	fg.	.....	.....	0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.31	744.5	30.19	766.8	52.0	11.1	72	w.	5	2.2	.....	0	sk.	.....	.....	0	0	clear	D. O. Donoghue.
Chattanooga, Tennessee	29.43	747.5	30.28	769.1	45.0	7.2	89	sw.	2	0.9	.....	0	fg.	.....	.....	0	0	clear	B. L. Goulding.
Cheyenne, Wyoming	24.05	610.9	30.23	767.8	31.5	— 0.3	94	s.	12	5.4	.....	.....	fg	.....	.....	0	0	dense fog	E. McGovern.
Chicago, Illinois	29.55	750.6	30.29	769.4	38.9	3.8	79	ne.	10	4.5	.....	0	0	.....	.....	0	0	clear	J. Mitchell.
Chincoteague, Virginia	29.98	761.5	30.00	762.0	51.5	10.8	93	w.	8	3.6	.....	2 c	0	.....	.....	0	0	clear	F. C. Pratz.
Cincinnati, Ohio	29.54	750.3	30.23	767.8	51	10.6	72	calm	0	0	.....	6 k	0	.....	.....	0	0	fair	R. B. Watkins.
Cleveland, Ohio	29.47	748.5	30.25	768.3	38	3.3	82	nw.	5	2.2	.....	0	0	.....	.....	0	0	clear	J. B. Newlin.
Coleman City, Texas	28.24	717.3	30.09	764.3	50	10.0	100	s.	4	1.8	.....	0	0	.....	.....	0	0	clear	L. Dorman.
Columbus, Ohio	29.33	745.0	30.22	767.6	49	9.4	63	nw.	4	1.8	.....	0	0	.....	.....	0	0	clear	D. Cuthbertson.
Concho, Texas	28.09	713 5	30.06	763.5	54	12.2	93	calm	0	0	.....	0	0	.....	.....	0	0	clear	W. W. McConihe.
Davenport, Iowa	29.61	752.1	30.30	769.6	41	5.0	57	ne.	5	2.2	.....	7 ck	0	w.	.....	0	0	fair	R. R. Martin.
Dayton, Washington T'y	28.29	718.6	30.10	764.5	31.2	— 0.4	84	sw.	7	3.1	.....	.....	10 s	.....	sw.	0.07	1.8	cloudy	H. Clifford.
Deadwood, Dakota	25.19	639.8	30.03	762.7	36	2.2	72	sw.	13	5.8	.....	5 c	0	w.	.....	0.01	0.3	fair	G. W. Scott.
Decatur, Texas	.....	.....	.....	.....	65	18.3	58	s.	10	4.5	.....	0	0	.....	.....	0	0	clear	D. J. Carr.
Delaware Breakwater, Del.	29.96	761.0	29.98	761.5	49	9.4	77	w.	14	6.3	.....	5 k	0	nw.	.....	0	0	fair	A. Schneider.
Denison, Texas	29.29	744.0	30.12	765.0	58.4	14.7	86	s.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. McGlone.
Denver, Colorado	24.69	627.1	30.13	765.3	36.5	2.5	62	w.	3	1.3	.....	0	3 s	.....	calm	0	0	clear	F. M. Neal.
Des Moines, Iowa	29.35	745.5	30.31	769.9	39	3.9	73	ne.	4	1.8	.....	7 cs	3 s	w.	.....	0	0	cloudy	F. W. Conrad.
Detroit, Michigan	29.50	749.3	30.25	768.3	43.0	6.1	74	nw.	4	1.8	.....	0	0	.....	.....	0	0	clear	C. F. R. Wappenhans.
Dodge City, Kansas	27.38	695.4	30.11	764.8	39.8	4.3	100	ne.	10	4.5	.....	.....	fg.	.....	.....	0	0	dense fog	E. A. Thomas.
Dubuque, Iowa	29.57	751.1	30.32	770.1	35.3	1.8	78	nw.	1	0.4	.....	.....	10 ks	.....	nw.	0	0	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.69	754.1	30.43	772.9	23	— 5.0	61	nw.	6	2.7	.....	0	0	.....	.....	0	0	clear	N. B. Conger.
Eagle Pass, Texas	29.26	743.2	30.08	764.0	68.4	20.2	90	se.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	F. Belford.
Eagle Rock, Idaho	25.14	638.5	30.01	762.2	31	— 0.6	92	sw.	10	4.5	.....	.....	10 n	.....	.....	0.90	22.9	light snow	J. M. Clifford.
Eastport, Maine	29.51	749.5	29.58	751.3	36.5	2.5	84	nw.	15	6.7	.....	.....	10 s	.....	nw.	3.54	89.9	cloudy	J. H. Melton.
El Paso, Texas	26.26	667.0	30.06	763.5	43.2	6.2	60	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.43	747.5	30.20	767.1	39	3.9	89	w.	4	1.8	.....	0	0	.....	.....	0	0	clear	R. H. Paxton.
Escanaba, Michigan	29.60	751.8	30.31	769.9	29	— 1.7	67	w.	4	1.8	.....	0	0	.....	.....	0	0	clear	C. Dill.
Florence, Arizona	28.39	721.1	29.96	761.0	52.5	11.4	54	sw.	3	1.3	.....	5 cs	0	sw.	.....	0	0	fair	R. R. Herman.
Fort Apache, Arizona	25.00	635.0	30.02	762.5	30	— 1.1	70	ne.	3	1.3	.....	0	6 s	.....	calm	0	0	fair	W. C. Barnes.
Fort Assinnaboine, Montana	27.05	687.1	30.06	763.5	25	— 3.9	53	sw.	7	3.1	.....	.....	10 s	.....	sw.	0	0	cloudy	B. O. Lenoir.
Fort Bennett, Dakota	28.58	725.9	30.28	769.1	37	2.8	72	se.	10	4.5	.....	.....	10 s	.....	.....	0	0	cloudy	T. Gibson.
Fort Benton, Montana	27.07	687.6	30.05	763 3	25	— 3.9	76	e.	3	1.3	.....	.....	10 s	.....	calm	0	0	cloudy	S. Wheaton.
Fort Buford, Dakota	28.07	713.0	30.21	767.3	32	0.0	71	e.	12	5.4	.....	.....	10 s	.....	calm	0	0	cloudy	A. H. Bell.
Fort Custer, Montana	26.65	676.9	29.98	761.5	30	— 1.1	100	nw.	12	5.4	.....	0	4 s	.....	calm	0	0	fair	V. Verge.
Fort Davis, Texas	25.14	638.5	30.02	762.5	48	8.9	48	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. Williams.
Fort Elliott, Texas	27.19	690.6	30.02	762.5	40	4.4	42	n.	4	1.8	.....	4 c	0	n.	.....	0	0	fair	W. J. Cundall.
Fort Gibson, Indian T'y	29.50	749.3	30.09	764.3	58.5	14.7	65	se.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. B. Campbell.
Fort Grant, Arizona	25.21	640.3	30.04	763.0	60	15.6	30	se.	8	3.6	.....	3 c	0	.....	.....	0	0	clear	T. J. Macgowan.
Fort Griffin, Texas	28.74	730.0	30.09	764.3	54	12.2	80	s.	2	0.9	.....	0	0	.....	.....	0	0	clear	G. H. Hayne.
Fort Keogh, Montana	27.40	695.9	30.05	763.3	37	2.8	64	e.	8	3.6	.....	0	7 s	.....	e.	0	0	fair	W. B. Stockman.
Fort Macon, North Carolina	30.16	766.1	30.17	766.3	53	11.7	69	w.	7	3.1	.....	hz.	hz.	calm	calm	0	0	light haze	L. Leonardy.
Fort McKavett, Texas	27.81	706.4	30.13	765.3	55.3	12.9	93	sw.	12	5.4	.....	.....	10 s	.....	.....	0	0	cloudy	J. E. Thatcher.
Fort Missoula, Montana	26.62	676.1	30.00	762.0	20	— 6.7	87	nw.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. H. Jones.
Fort St. Michaels, Alaska	29.59	751.6	29.63	752.6	12	—11.1	100	e.	10	4.5	.....	.....	10 s	.....	e.	0	0	cloudy	A. P. Leavitt.
Fort Shaw, Montana	26.23	666.2	30.03	762.7	18	— 7.8	70	w.	3	1.3	.....	8 cs	0	.....	.....	0	0	cloudy	A. L. Mathews.
Fort Sill, Indian Territory	28.79	731.3	30.08	764.0	50.7	10.4	91	s.	5	2.2	.....	0	0	.....	.....	0	0	clear	T. Cleary.
Fort Stevenson, Dakota	28.33	719.6	30.31	769.9	32	0.0	71	se.	9	4.0	.....	.....	10 s	.....	calm	0	0	cloudy	W. Burrows.
Fort Verde, Arizona	.....	.....	.....	.....	49.2	9.6	46	e.	.....	.....	1	0	0	.....	.....	0	0	clear	D. Brooks.
Fort Washakie, Wyoming	24.19	614.4	.....	.....	29.1	— 1.6	92	n.	2	0.9	.....	.....	10 s	.....	.....	0	0	cloudy	T. M. Ambler.
Fredericksburg, Texas	28.33	719.6	30.09	764.3	59	15.0	87	s.	12	5.4	.....	.....	10 ks	.....	s.	0	0	cloudy	H. S. Miles.
Galveston, Texas	30.10	764.5	30.14	765.5	67	19.4	95	s.	6	2.7	.....	.....	10 ks	.....	sw.	0	0	threatening	E. O'C. MacInerney.
Grand Haven, Michigan	29.57	751.1	30.27	768.8	39.0	3.9	59	n.	1	0.4	.....	0	0	.....	.....	0	0	clear	W. A. Reid.
Hatteras, North Carolina	30.08	764.0	30.10	764.5	54	12.2	74	w.	16	7.2	.....	0	fg.	.....	.....	0	0	clear	R. M. Crawford.
Helena, Montana	25.62	650.7	29.99	761.7	28	— 2.2	67	sw.	2	0.9	.....	.....	10 s	.....	sw.	0	0	cloudy	N. C. Smith.
Henrietta, Texas	29.07	738.4	30.11	764.8	57	13.9	80	s.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. W. Byram.
Huron, Dakota	28.84	732.5	30.32	770.1	33	0.6	78	e.	10	4.5	.....	0	5 s	.....	.....	0	0	fair	S. W. Glenn.
Indianapolis, Indiana	29.40	746.7	30.24	768.1	48	8.9	74	n.	3	1.3	.....	5cs;ck	hz.	nw.	calm	0	0	fair	O. Schutze.
Indianola, Texas	30.08	764.0	30.11	764.8	68.1	20.1	100	se.	10	4.5	.....	0	1 ks	.....	sw.	0	0	clear	I. A. Reed.
Jacksboro, Texas	28.88	733.5	30.09	764.3	56	13.3	80	s.	5	2.2	.....	0	0	.....	.....	0	0	clear	J. P. Sherry.
Jacksonville, Florida	30.20	767.1	30.25	768.3	51	10.6	93	ne.	1	0.4	.....	.....	fg.	.....	.....	0	0	dense fog	J. W. Smith.
Keokuk, Iowa	29.54	750.3	30.23	767.8	42.5	5.8	70	ne.	7	3.1	.....	10 k	0	w.	.....	0	0	cloudy	F. Z. Gosewisch.
Key West, Florida	30.15	765.8	30.17	766.3	71.0	21.7	82	ne.	13	5.8	.....	0	1 s	.....	.....	0	0	clear	L. M. Melbourne.
Kittyhawk, North Carolina	30.07	763.8	30.09	764.3	53.5	11.9	66	w.	18	8.0	.....	0	0	.....	.....	0	0	clear	E. A. Beals.
Knoxville, Tennessee	29.22	742.2	30.28	769.1	42.8	6.0	94	calm	0	0	.....	0	fg.	.....	.....	0	0	clear	J. A. Cody.
La Crosse, Wisconsin	29.52	749.8	30.34	770.6	35	1.7	49	nw.	4	1.8	.....	2 c	3 s	n.	.....	0	0	fair	S. C. Emery.
La Mesilla, New Mexico	26.11	663.2	30.06	763.5	40.3	4.6	58	calm	0	0	.....	0	1 s	.....	.....	0	0	clear	N. D. Lane.
Leavenworth, Kansas	29.24	742.7	30.18	766.6	45	7.2	68	ne.	6	2.7	.....	0	0	.....	.....	0	0	clear	A. W. Browne.
Lewiston, Idaho	29.12	739.6	29.98	761.5	34	1.1	58	e.	1	0.4	.....	.....	10 s	.....	calm	0.02	0.5	cloudy	W. Blake.
Little Rock, Arkansas	29.82	757.4	30.15	765.8	53	11.7	86	calm	0	0	.....	0	0	.....	.....	0	0	clear	M. F. Burrows.
Los Angeles, California	29.72	754.9	30.12	765.0	44.2	6.8	83	s.	5	2.2	.....	5 c	0	sw.	.....	0.04	1.0	fair	E. F. Kubel.
Louisville, Kentucky	29.59	751.6	30.18	766.6	51	10.6	80	s.	3	1.3	.....	5 c;cs	4 s	.....	.....	0	0	cloudy	H. C. Smith.
Lynchburg, Virginia	29.41	747.0	30.13	765.3	54.5	12.5	55	sw.	3	1.3	.....	0	0	.....	.....	0	0	clear	T. H. Breen.
Madison, Wisconsin	29.28	743.7	30.35	770.9	34	1.1	79	nw.	5	2.2	.....	2 cs	0	w.	.....	0	0	fair	C. A. Shaw.
Marquette, Michigan	29.53	750.0	30.30	769.6	30	— 1.1	57	nw.	10	4.5	.....	0	0	.....	.....	inap.	inap.	clear	I. Gilligan
Mason, Texas	28.42	721.9	30.11	764.8	58	14.4	80	s.	8	3.6	.....	.....	10 s	.....	s.	0	0	cloudy	A. M. Wilson.
Memphis, Tennessee	29.84	757.9	30.19	766.8	54	12.2	80	calm	0	0	.....	0	sk.	.....	.....	0	0	dense smoke	D. T. Flannery.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind.		Clouds. Direction.		Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
												Upper.	Lower.	Upper.	Lower.				
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec.	0–01	0–10	0–10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Milwaukee, Wisconsin	29.54	750.3	30.32	770.1	37	2.8	72	nw.	6	2.7		3 ck	sk	nw.		0	0	fair	W. Line.
Mobile, Alabama	30.18	766.6	30.22	767.6	54	12.2	93	n.	1	0.4			fg			0	0	dense fog	J. D. Paxton.
Montgomery, Alabama	30.00	762.0	30.24	768.1	51.3	10.7	95	calm	0	0		0	fg			0	0	clear	J. B. McLaughlin.
Moorhead, Minnesota	29.31	744.5	30.39	771.9	25	— 3.9	88	ne.	2	0.9			10 s			0	0	cloudy	H. Bessant.
Morgantown, W. Virginia	29.16	740.7	30.22	767.6	47.0	8.3	86	sw.	1	0.4		0	fg			0	0	clear	J. Sprigg, jr.
Mt. Washington, N. H.	23.46	595.9	29.98	761.5	20.0	— 6.7	40	nw.	42	18.8			8 s		nw.	0.04	1.0	cloudy	J. G. Linsley.
Nashville, Tennessee	29.68	753.9	30.24	768.1	48.6	9.2	90	calm	0	0			fg			0	0	dense fog	L. A. Jesunofsky.
New Haven, Connecticut	29.75	755.6	29.87	758.7	41	5.0	73	calm	0	0		5 k	0	w.		0	0	fair	J. H. Sherman.
New London, Connecticut	29.82	757.4	29.87	758.7	40	4.4	73	n.	3	1.3		0	4 ks		n.	0.07	1.8	fair	J. G. Lynch.
New Orleans, Louisiana	30.11	764.8	30.17	766.3	61.0	16.1	93	se.	5	2.2			fg			0	0	dense fog	A. J. Armstrong.
Newport, Rhode Island	29.80	756.9	29.85	758.2	42.0	5.6	76	nw.	3	1.3		2 k	7 ks	w.	nw.	0.29	7.4	cloudy	W. McGillivray.
New River, N. Carolina					47	8.3	93	w.			1		fg			0	0	dense fog	C. C. Corbin.
New Shoreham, Rhode I'd.	29.82	757.4	29.85	758.2	41.5	5.3	79	calm	0	0		0	7 ks		nw	0.18	4.6	fair	W. Davis.
New York, New York	29.73	755.1	29.91	759.7	45	7.2	83	w.	6	2.7		0	fg			0	0	clear	E. B. Garriott.
Norfolk, Virginia	30.04	763.0	30.07	763.8	57	13.9	51	nw.	6	2.7		0	0			0	0	clear	J. T. Elker.
North Platte, Nebraska	27.16	689.9	30.22	767.6	38.6	3.7	62	calm	0	0			10 s			0	0	cloudy	E. F. Brady.
Olympia, Washington T'y	30.09	764.3	30.13	765.3	33.0	0.6	88	sw.	4	1.8		8 k	0	s.		0.18	4.6	cloudy	J. Dascomb.
Omaha, Nebraska	29.04	737.6	30.29	769.4	40.8	4.9	50	ne.	8	3.6			10 s			0	0	cloudy	A. Pollak.
Ooglaamie, Pt. Barrow, Alas.	29.72	754.9	29.74	755.4	— 8.7	—22.6	85	se.	16	7.2			10 s			0	0	cloudy	P. H. Ray.
Oswego, New York	29.63	752.6	29.97	761.2	39.0	3.9	88	w.	13	5.8		0	0			0	0	clear	S. W. Beall.
Palestine, Texas	29.61	752.1	30.18	766.6	62	16.7	72	s.	12	5.4			10 s			0	0	cloudy	L. M. Pindell.
Pensacola, Florida	30.19	766.8	30.22	767.6	56.0	13.3	100	e.	2	0.9			fg			0.03	0.8	dense fog	M. McGauran.
Philadelphia, Pa	29.87	758.7	29.97	761.2	52	11.1	66	sw.	2	0.9		0	sk		sw.	0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	17.64	448.0	30.23	767.8	13.5	—10.3	76	sw.	52	23.2		2 cs	4 s	sw.		0	0	fair	L. M. Dey.
Ploche, Nevada	23.80	604.5	29.94	760.5	37	2.8	58	s.	6	2.7		10 c	0	s.		0	0	cloudy	C. K. Kitchel.
Pittsburg, Pennsylvania	29.35	745.5	30.20	767.1	49.0	9.4	68	nw.	3	1.3		4 c	0	w.		0	0	fair	J. H. Bryce.
Port Eads, Louisiana	30.18	766.6	30.19	766.8	61.5	16.4	100	e.	6	2.7		0	fg			inap.	inap.	clear	H. G. Christian.
Port Huron, Michigan	29.51	749.5	30.23	767.8	35.0	1.7	82	nw.	6	2.7		0	0			0	0	clear	W. O. Bailey.
Portland, Maine	29.74	755.4	29.78	756.4	41.0	5.0	65	nw.	8	3.6		3 c	0	w.		0.93	23.6	clear	D. C. Murphy.
Portland, Oregon	30.07	763.8	30.14	765.5	36.1	2.3	89	s.	8	3.6			10 s		se.	0.08	2.0	cloudy	M. L. Hearne.
Portsmouth, N. Carolina					53	11.7	60	nw.	15	6.7		3 c	0	calm		0	0	clear	F. P. Chaffee.
Prescott, Arizona	24.63	625.6	29.97	761.2	44	6.7	45	s.	16	7.2		0	0			0	0	clear	J. McN. Wright.
Provincetown, Mass	29.78	756.4	29.81	757.2	38	3.3	82	nw.	8	3.6		3 k	0	nw.		0.49	12.4	clear	P. T. Jenkins.
Punta Rassa, Florida	30.19	766.8	30.20	767.1	62	16.7	86	ne.	6	2.7		0	0			0	0	clear	W. J. Evans.
Red Bluff, California	29.84	757.9	30.22	767.6	36.5	2.5	84	n.	5	2.2		0	0			0.04	1.0	clear	J. M. Frantz.
Rio Grande City, Texas	29.79	756.7	30.03	762.7	68	20.0	84	se.	7	3.1		0	0			0	0	clear	W. H. Taylor.
Rochester, New York	29.35	745.5	30.05	763.3	38	3.3	82	nw	16	7.2		0	0			0	0	clear	A. T. Sherwood.
Roseburg, Oregon	29.04	752.8	30.20	767.1	32	0.0	88	e.	3	1.3		0	0			0	0	clear	J. A. Barwick.
Sacramento, California	30.11	764.8	30.19	766.8	41.8	5.4	73	nw.	4	1.8		0	9 ks		sw.	0.15	3.8	threatening	J. J. Nanry.
St. Louis, Missouri	29.56	750.8	30.19	766.8	52.0	11.1	86	ne.	5	2.2		2 c	0			0	0	clear	J. A. Barwick.
St. Paul, Minnesota	29.44	747.8	30.36	771.1	32.0	0.0	68	n.	2	0.9		3 ck	0			0	0	clear	J. H. Webber.
St. Vincent, Minnesota	29.50	749.3	30.44	773.*	1	—17.2	72	se.	1	0.4		0	0	w.		0	0	clear	O. S. M. Cone.
Salt Lake City, Utah	25.32	643.1	29.84	757.9	46	7.8	48	se.	12	5.4			10 ks			0	0	clear	G. Kingsbury.
San Antonio, Texas	29.39	746.5	30.10	764.5	64.0	17.8	90	se.	1	0.4			10 s		w.	0	0	cloudy	J. Craig.
San Diego, California	30.03	762.7	30.09	764.3	52.4	11.3	68	nw.	19	8.5		2 k	0		calm	0	0	cloudy	E. Lane.
Sandusky, Ohio	29.53	750.0	30.25	768.3	42	5.6	65	nw.	20	8.9		0	0	nw.		0.01	0.3	clear	A. C. Dobbins.
Sandy Hook, New Jersey	29.86	758.4	29.90	759.4	45.0	7.2	83	w.	15	6.7		hz	hz			0	0	clear	M. H. Perry.
San Francisco, California	30.16	766.1	30.23	767.8	44	6.7	60	n.	16	7.2		0	0	calm	calm	0	0	light haze	B. A. Blundon.
Santa Fé, New Mexico	23.20	589.3	30.18	766.6	45	7.2	39	e.	8	3.6		5 k	0			0	0	clear	N. Gorom.
Savannah, Georgia	30.14	765.5	30.24	768.1	52	11.1	83	s.	4	1.8		0	fg			0	0	fair	H. N. Jones.
Shreveport, Louisiana	29.92	760.0	30.18	766.6	55	12.8	93	calm	0	0		0	0			0	0	clear	H. M. Ford.
Silver City, New Mexico	24.22	615.2	30.00	762.0	40	4.4	46	nw.	2	0.9		0	0			0	0	clear	E. N. Meekins.
Sitka, Alaska	30.08	764.0	30.15	765.8	20.5	— 6.4	61	ne.	4	1.8		0	0			0	0	clear	J. B. Wallace.
Smithville, North Carolina	30.15	765.8	30.19	766.8	50	10.0	86	nw.	6	2.7		0	0			0	0	clear	J. J. McLean.
Spokane Falls, Wash. Ter.	27.96	710.2	30.09	764.3	32	0.0	88	s.	2	0.9			10 s		sw.	0.08	2.0	cloudy	J. C. Rickli.
Springfield, Illinois	29.53	750.0	30.25	768.3	48	8.9	67	ne.	10	4.5		hz	6 s		w.	inap.	inap.	fair	D. Moore.
Springfield, Massachusetts	29.72	754.9	29.86	758.4	38.0	3.3	72	s.	1	0.4		4 k	fg	w.		0	0	fair	T. B. Jennings.
Springfield, Mo	28.68	728.5	30.24	768.1	55	12.8	74	s.	8	3.6		0	0			0	0	clear	T. S. Outram.
Stockton, Texas	26.96	684.8	30.04	763.0	51.6	10.9	86	se.	4	1.8		0	0			0	0	clear	J. B. Marbury.
Thatcher's Island, Mass	29.79	756.7	29.85	758.2	39.0	3.9	73	nw.	13	5.8		3 k	5 s	nw.		0.37	9.4	cloudy	J. O'Dowd.
Toledo, Ohio	29.52	749.8	30.25	768.3	42.2	5.7	79	w.	9	4.0		2 cs	0	w.		0	0	clear	G. Liebmann.
Tucson, Arizona	27.50	698.5	29.96	761.0	52	11.1	55	s.	6	2.7		0	5 ks			0	0	fair	A. Buell.
Umatilla, Oregon	29.78	756.4	30.16	766.1	34.8	1.6	75	nw.	4	1.8		4 cs	0	nw.		inap.	inap.	fair	J. L. Whiteside.
Uvalde, Texas	29.10	739.1	30.08	764.0	63	17.2	90	se.	4	1.8			10 s		calm	0	0	cloudy	R. P. Sibley.
Vicksburg, Mississippi	29.94	760.5	30.20	767.1	57	13.9	80	se.	3	1.3		0	fg			0	0	clear	E. C. Imlay.
Visalia, California	29.70	754.4	30.08	764.0	44	6.7	80	nw.	9	4.0		0	2 s			inap.	inap.	clear	T. J. Kenan.
Washington, D. C.	29.94	760.5	30.06	763.5	54	12.2	61	w.	4	1.8		1 c	0			0	0	clear	J. T. Cochran.
West Los Animas, Colorado	26.01	660.6	30.09	764.3	34	1.1	88	e.	1	0.4		0	8 s		e.	0	0	clear	B. M. Pursell.
Wickenburg, Arizona					38.0	3.3	82	sw.			1	0	1 s			0	0	cloudy	J. Grover.
Williamsport, Pa	29.42	747.3	30.06	763.5	44	6.7	76	w.	8	3.6		0	0			0	0	clear	H. A. Kremp.
Wilmington, N. Carolina	30.12	765.0	30.18	766.8	53	11.7	72	sw.	1	0.4		0	sk		calm	0	0	clear	B. F. Hough.
Winnemucca, Nevada	25.49	647.4	29.99	761.7	30	— 1.1	81	sw.	8	3.6		0	5 ks		sw.	inap.	inap.	clear	S. A. Haney.
Yankton, Dakota	28.92	734.6	30.31	769.9	32	0.0	78	ne.	5	2.2		10 ck	0	ne		0	0	fair	J. R. Williams.
Yuma, Arizona	29.76	755.9	29.91	759.7	54.0	12.2	72	sw.	4	1.8		0	0			0	0	cloudy	J. H. Atfield.
Sub-series.																		clear	O. D. Stewart.
Bogota, U. S. Columbia	22.02	559.3			52.0	11.1	51	sw.	3	1.3		5 k	2 s			0	0	fair	Joaquin Gomez.
Bridgetown, Barbados, W.I.	30.03	762.7	30.04	763.0	76	24.4	85	e.				5 k	5 ks	e.	e.	0.60	15.2	cloudy	J. A. Racker.
Buenaventura, U. S. C.	29.95	760.7	29.97	761.2	78	25.6	90	s.	4	1.8			10 ks		s.	0	0	cloudy	J. I. Plume.
Guadeloupe, W. I.	29.94	760.5	29.96	761.0	76	24.4	83	e.				4 k	0			0	0		B. Bigar.
Havana, Cuba, W. I.	30.13	765.3	30.18	766.6	76	24.4	76	calm	0	0		0	5 ks		e.	0	0	fair	A. Van Caneghem.
Kingston, Jamaica, W. I.	30.04	763.0	30.05	763.3	70.4	21.3	90	n.	1	0.4		0	0			0.30	7.6		Robert Johnston.
Navassa	30.10	764.5	30.18	766.6	76.5	24.7	79	ne.	7	3.1		5 ck	2 s	e.	ne.	0	0		F. M. Everett.
Paramaribo, S. A.	30.04	763.0	30.04	763.0	77	25.0	86	e.			2	4 c	4 k	e.		0	0	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.46	748.3	29.92	760.0	81	27.2	82	calm			0		8 ks		calm	0.28	7.1	cloudy	Miss Flora A. Nichols.
Santiago de Cuba, W. I.	30.05	763.3	30.07	763 8	75	23.9	81	n.	2.4	1.1		1 c	1 s		n.	0.09	2.3	fair	Robert Mason.
York Factory, B. A.	30.28	769.1	30.34	770.6	—16.0	—26.7	70	s.	6	2.7		0	0			0	0	clear	J. Fortescue & W. Wood.

STATIONS AND VESSELS.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
BRITISH NAVAL.																		
H. M. S. Agincourt, N. 36° 07′, W. 5° 24′	30.23	767.8	56	13.3	100	sw.			4		6							d. clouds.
H. M. S. Alert, S. 2° 00′, E. 55° 39′	29.85	758.2	85.5	29.7	71	ne.			1		2							d. clouds.
H. M. S. Alexandra, Malta, Mediterranean	30.07	763.8	59.5	15.3	72	nw.			2		4	w.						d. clouds.
H. M. S. Bacchante, Suez Canal	30.14	765.5	69	20.0	75	n.			1		1	nnw.						blue sky.
H. M. S. Boadicea, S. 34° 11′, E. 18° 26′	29.80	758.4	68.5	20.3	77	w.			2–4		10							showery.
H. M. S. Cleopatra, Suez, Egypt	30.15	765.8	67	19.4	79	nne.			1–2		1	ne.						blue sky.
H. M. S. Comus, Singapore, Malay Peninsula	29.78	756.4	79	26.1	95	ne.			1		3							d. clouds.
H. M. S. Diamond, S 40° 04′, E. 63° 55′	29.87	758.7	61.5	16.4	70	w.			5–6		6					4	w.	d. clouds.
H. M. S. Dido, N. 13° 05′, W. 59° 36′	30.07	763.8	77	25.0	....	e.			2		2	ne.						d. clouds.
H. M. Dock-Yard, Bermuda, W. I.	29.87	758.7	63	17.2	72	wnw.			6		7	wnw.						squally.
H. M. S. Dwarf, S. 34° 44′, W. 57° 39′	29.85	758.2	66.2	19.0	90	s.			4–5		10					4–5	s.	squally.
H. M. S. Eclipse, S. 15° 01′, E. 40° 45′	29.75	755.6	85	29.4	.....	une.			1		4							d. clouds.
H. M. S. Espiegle, S. 38° 44′, E. 37° 30′	30.23	767.8	60	15.6	82	e.			4		3					3	ne.	d. clouds.
H. M. S. Euryalus, N. 34° 19′, E. 21° 52′	30.00	763.5	61	16.1	.....	ese.			3–4		2	calm				1	ese.	d. clouds.
H. M. S. Fawn, Zebayer Island, Red Sea	29.93	760.2	81.5	27.5	61	s.			4		0					4	s.	blue sky.
H. M. S. Flying Fish, N. 34° 41′, E. 135° 12′	30.04	763.0	45	7.2	100	nnw.			1		3							d. clouds.
H. M. S. Gannet, S. 27° 00′, W. 90° 40′	30.26	768.6	73	22.8	67	se.			3–4		5					3	se.	d. clouds.
H. M. S. Garnet, Keppel Sound	29.79	756.7	46	7.8	76	se.			3		10							squally.
H. M. S. Inconstant, S. 1° 00′, E. 105° 00′	29.87	758.7	80	26.7	82	nw.			3		4	nw.				2	nw.	d. clouds.
H. M. S. Iris, N. 34° 11′, E. 21° 11′	29.99	761.7	63	17.2	83	sse.			2		0					1–2	sse.	blue sky.
H. M. S. Iron Duke, N. 22° 16′, E. 114° 10′	30.13	765.3	55	12.8	80	ne.			1		10	ne.						overcast.
H. M. S. Liffey, Coquimbo, Chili	29.98	761.5	62	16.7	.....	calm			0		10							overcast.
H. M. S. Magpie, N. 22° 16′, E. 114° 10′	30.11	764.8	54.5	12.5	85	calm			0		10							showery.
H. M. S. Malabar, N. 46° 13′, W. 7° 35	29.49	749.0	49	9.4	77	w.			5–6		5	wnw.				6	sw.	showery.
H. M. S. Rambler, Corisco Bay, Lower Guinea	29.87	758.7	85	29.4	.....	sse.			1		1					1	ssw.	misty.
H. M. S. Ready, Fau, Asiatic Turkey	29.93	760.2	64.1	17.8	.....	sse.			4									
H. M. S. Rocket, Vancouver Island, British Columbia	30.10	764.5	30	— 1.1	?	calm			0		2							d. clouds.
H. M. S. Sea Gull, S. 2° 13′, E. 40° 59′	29.25	742.9	82	27.8	91	ene.			2–3		1	nne.						blue sky.
H. M. S. Thalia, N. 15° 13′, W. 25° 56′	30.09	764.3	72	22.2	.....	ene.			4–5		1					3	ne.	blue sky.
H. M. S. Triumph, S. 27° 00′, W. 90° 36′	30.30	769.6	74	23.3	68	ese.			4		6	se.				6	se.	d. clouds.
H. M. S. Tyne, N. 1° 55′, E. 104° 30′	29.85	758.2	80	26.7	95	nne.			3		5	nne.				2	nne.	d. clouds.
H. M. S. Woodlark, Bombay, India	29.90	759.4	74.5	23.9	56	nw.			3–4		0							misty.
PORTUGUESE NAVAL.																		
Quanza, Boavista, Cape Verd Islands	30.03	762.8	74.3	23.5	71	ene.			4		0					3	ene.	blue sky.
UNITED STATES NAVAL.																		
Navy Yard, Pensacola, Fla	30.19	766.8	60	15.6	88	ne.	5	2.2			10			0	0			foggy.
Naval Hospital, Portsmouth, N. H.	29.80	756.9	36	2.2	90	nw.	8	3.6			8		nw.	0.03	0.8			cloudy.
Naval Hospital, Yokohama, Japan	29.93	760.2	38	3.3	90	nne.			2		10		ne.	0.12	3.0			light rain.
Adams, Callao, Peru	29.70	754.4	67	19.4	100	calm			0		10					gr'd		foggy.
Alaska, Valparaiso, Chili	29.94	760.5	60	15.6	71	calm			0		0			0	0	sm'h		clear.
Alert, N. 4° 59′, E. 114° 21′*	29.77	756.1	82	27.8	83	n.			4		5		n.	0	0	sm'h		fair.
Alliance, N. 21° 37′, W. 67° 46′	30.05	763.3	74	23.3	76	ene.			1		2			0	0	sm'h		clear.
Ashuelot, Tientsin, China	30.26	768.6	35	1.7	70	ese.			2		0							clear.
Brooklyn, S. 52° 28′, W. 64° 32′	29.82	757.4	51	10.6	79	ne.	4	1.8			5		calm	0	0	light	ne.	fair.
Colorado, N. Y.	29.90	759.4	45	7.2	84	sw.	4	1.8			0			0	0			clear.
Enterprise, N. 31° 15′, W. 76° 01′*	30.23	767.8	66	18.9	74	nw.			1		2					long	n.	clear.
Essex, Porto Grande, Cape Verd Islands	30.13	765.3	70	21.1	90	ne.			5		2		ne.			long	ne.	clear.
Franklin, Norfolk, Va.	30.09	764.3	56	13.3	57	wsw.	12	5.4			2		nw.	0	0			fair.
Galena, Villafranca, France	29.72	754.9	58	14.4	64	sw.			3		2					long	s.	fair, clear.
Independence, Mare Island, Cal.	29.92	760.0	41	5.0	86	nw.			4		0			0	0			clear.
Kearsage, New Orleans, La	30.20	767.1	62	16.7	88	e.			1		10							foggy.
Lackawanna, Valparaiso, Chili†	30.09	764.3	60	15.6	94	n.			0–1		0							hazy.
Lancaster, Smyrna, Turkey*	30.05	763.3	68	20.0	49	s.			3		2		s.	0	0	sm'h		fair.
Marion, S. 33° 54′, E. 18° 24′*	29.64	752.8	64	17.8	94	wnw.			1		8		sw.	mod.	mod.	sm'h		cloudy.
Michigan, Erie, Pa	30.03	762.7	38	3.3	63	w.			1		0							clear.
Minnesota, Newport, R. I.	29.85	758.2	48	8.9	92	n.	1	0.4			8		nnw.					cloudy.
Monocacy, Yokohama, Japan	30.09	764.3	39	3.9	91	n.			2		10		n.					rainy.
Newhampshire, Newport, R. I.	29.83	757.7	40	4.4	91	nw.			1		8					sm'h		fair.
Nipsic, Vigo, Spain	29.64	752.8	53	11.7	61	nw.			4		10		nw.			sm'h		raining.
Onward, Callao, Peru†	30.05	763.3	65	18.3	?	calm			0		10		nnw.			long	w.	foggy.
Palos, Hong Kong, China	30.12	765.0	54	12.2	87	ne.			1		10		ne.					overcast.
Passaic, Washington, D. C.	30.05	763.3	52	11.1	86	sw.			1		0							clear.
Pensacola, S. 28° 20′, W. 71° 56′	29.99	761.7	60	15.6	88	s.			3		0							clear.
Powhatan, Basse Terre, Guadeloupe	30.07	763.8	77	25.0	69	e.			1		0			0	0	long	s.	clear.
Quinnebaug, N. 34° 45′, E. 28° 40′	30.20	767.1	63	17.2	78	sw.			1		2		e.			sm'h		fair.
Ranger, Acapulco, Mexico*	29.94	760.5	78	25.6	91	calm			0		5		calm	0	0	sm'h		clear.
Richmond, Yokohama, Japan*	29.95	760.7	40	4.4	73	ne.			2		0			0	0	sm'h		cloudy.
Shenandoah, S. 12° 07′, W. 29° 15′*	30.12	765.0	81	27.2	74	ese.			3		10			0.2	5.			fair.
St. Louis, League Island, Pa	30.20	767.1	47	8.3	100	sw.	4	1.8			2		e.			sm'h		clear.
Swatara, Yokohama, Japan*	29.89	759.2	41	5.0	82	nne.			2		0			0	0			drizzling.
Tennessee, N. 35° 51′, W. 74° 55′	30.09	764.3	67	19.4	56	w.	36	16.1			10		ne.			sm'h		clear.
Vandalia, Havana, Cuba*†	30.28	769.1	72	22.2	90	ese.			1		0			0	0	mod.	w.	clear.
Wabash, Boston, Mass.	29.85	758.2	39	3.9	82	nw.	5	2.2			2		e.					fair.
Wachusetts, Fort Wrangle, Alaska	30.08	764.0	21	— 6.1	.....	e.			1		5		nw.	0.44	11.2			hazy.
Wyoming, Port Royal, S. C.	30.23	767.8	55	12.8	93	w.	4	1.8			0					sm'h		clear.
Yantic, N. 25° 57′ W. 80° 25′*	30.12	765.0	74	23.3	81	ene.			4		2		calm	0	0			clear.
											5					sm'h		fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Circassian, N 51° 15′, W. 31° 50′	30.45	773.4	50	10.0	78	wnw.			5		3		se.	0	0	2	nw.	d. clouds.
S. S. Nova Scotian, N. 42° 52′, W. 65° 08′	29.42	747.3	32	0.0		nw.			3		10					long	se.	dense fog.
S. S. Peruvian, Liverpool, Eng*.	29.24	742.7	38	3.3		sw.			5		8		w.	0	0			cloudy.
S. S. Prussian, Boston, Mass*	29.79	756.7	45	7.2		nnw.			1		8		n.					fine.
S. S. Waldensian, N. 43° 21′, W. 55° 36′*	29.93	760 2	39	3.9		nne.			2		8		n.	0	0	light	e.	hazy.
AMERICAN STEAMSHIP COMPANY.																		
S. S. Illinois, Philadelphia, Penn.	29.87	758.7	54	12.2	93	w.			4		2		wnw.					clear.
S. S. Indiana, N. 40° 33′, W. 60° 28′†	29.75	755.6	57	13.9	100	se.			6		5?		n.	h'vy	h'vy	mod.	s.	cloudy.?
S. S. Ohio, N. 51° 00′, W. 13° 20′*†	29.54	750.3	49	9.4	93	nne.			6		4		n.			r'gh	nne.	sqnally.
ANCHOR LINE.																		
S. S. Galatia, N. 47° 35′, W. 21° 08′†	30.10	764.5				nnw.			7		7		nw.	8 h'r	8 h'r	long	nnw.	
ATLAS LINE.																		
S. S. Ailsa, N. 34° 43′, W. 74° 07′†	30.29	769.4	67	19.4	74	wnw.			3–4		2		w.	0	0	mod.	wsw.	fair.
S. S. Alvo, Savanilla, U. S. C.	29.91	759.7	78	25.6		nno.			0		0			0	0			fine.
S. S. Andes, N. 38° 20′, W. 73° 55′*†	29.85	758.2	45	7.2		nnw.			5				nw.	0	0	r'gh	nw.	clear.
S. S. Arden, New York, N. Y.			52	11.1		n.			1								s.	fine.
BOSTON AND HALIFAX LINE.																		
S. S. Carroll, Boston, Mass†	30.11	764.8	58	14.4		nnw.												showery.
BRITISH METEOROLOGICAL OFFICE.																		
S. Auckland, S. 19° 45′, W. 29° 54′	30.14	765.5	81	27.2		ene.			3		4							blue sky.
S. Baroda, S. 40° 21′, W. 12° 04′	30.06	763 5	55.4	13.0	73	sw.			4		9							overcast.
Bk. Caldew, S. 18° 26′, W. 27° 26′	30.14	765.5	79.1	26.2		e.			5		4							d. clouds.
S. S. Cipero, N. 43° 06′, W. 21° 43′	30.26	768.6	53.4	11.9	80	n.			4		8					4	nnw.	d. clouds.
Bk. Coppename, N. 26° 28′, W. 57° 14′	30.14	765.5	71.5	21.9	62	se.			3		1							blue sky.
Glencairn, N. 15° 38′, E. 91° 57′	29.87	758.7	79.5	26.4	76	nnw.			1–2		1							blue sky.
S. S. Gordon Castle, N. 15° 42′, E. 41° 37′	29.88	758.9	85	29.4	68	sse.			1–3		0							misty.
S. Lochee, N. 3° 10′, W. 26° 48′	29.95	760.7	82	27.8	83	e.			3		5							d. clouds.
S. S. Minho, S. 21° 05,′ W. 40° 09′	30.13	765.3	82.2	27.9	79	une.			2		3							showery.
Naiad, N. 46° 55′, W. 17° 40′	29.84	757.9	53.3	11.8	90	wsw.			6		9							d. clouds.
Queen of Cambria, N. 5° 13′, E. 84° 15′	29.82	757.4	85	29.4	74	nne.			3		4							d. clouds.
BRISTOL LINE.																		
S. S. Brooklyn City, N. 40° 33′, W. 65° 00′*†	29.72	754.9	44	6.7		nw.			6		8		n.	0	0	cf'd		cloudy.
CROMWELL LINE.																		
S. S. Hudson, N. 24° 15′, W. 82° 00′*†	30.17	766.3	73	22.8		e.			3		0			0	0	mod.	e.	clear.
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. Canada, N. 49° 40′, W. 13° 30′	29.48	748.8	41.0	5.0		n.			6		5		n.	3 h'r	3 h'r		nnw.	hailing.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Gellert, N. 44° 50′ W. 42° 00′*	30.10	764.5	62	16.7		s.			2		8		ssw.	0	0	mod.	sw.	fair.
S. S. Lessing, N. 48° 22′, W. 34° 50′ *†	30.26	768.6	58	14.4		w.			2		8		nw.	0	0	sm'h	nw.	cloudy.
JOHNSTON LINE.																		
S. S. Thanemore, N. 48° 02′, W. 23° 45′	30.22	767.6				n.			5		5		n.	0	0		nw.	fine.
LEYLAND LINE.																		
S. S. Iberian, N. 51° 28′, W. 8° 00′						nne.			3		10		n.	20 h'r	20 h'r			
MALLORY LINE.																		
S. S. Colorado, N. 26° 12′, W. 87° 29′†	30.17	766.3	71	21.7		ese.			3		2		ese.	0	0	mod.	ese.	clear.
MERCHANTS' EXPRESS LINE.																		
S. S. Freja, N. 40° 57′, W. 68° 14′*†	29.71	754.6	44	6.7	92	wnw			6		2		nw.	2 h'r	2 h'r		nw.	
MERCHANTS STEAMSHIP LINE.																		
S. S. Glenfyne, N. 33° 00′, W. 70° 30′						nw.			6		2		wnw.			high	nw	clear.
NATIONAL LINE.																		
S. S. Erin, Gravesend, Eng.						se.			2		c			0	0			clear.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY																		
S. S. Niagara, N. 25° 03′, W. 80° 05′*†	30.32	770.1	73	22.8		ne.			2		0			0	0			clear.
NEW YORK HERALD WEATHER SERVICE.																	nnw.	clear.
S. S. Alvena, N. 31° 10′, W. 73° 48′*†	30.14	765.5	68	20.0		nw.			3								e.	
S. S. New York, N. 25° 03′, W. 83° 40′*†	30.25	768.3	73	22.8		e.			2							2	nw.	fine.
S. S. P. Caland, N. 40° 03′, W. 68° 57′	29.82	757.4	44.6	7.0		wnw.			3									
NORTH GERMAN LLOYD.																		
S. S. Hermann, N. 48° 26′, W. 31° 01′*†	30.36	771.1	51.8	11.0		nnw.			2		4		wsw.	4 h'r	4 h'r		w.	clearing.
S. S. Hohenzollern, S. 4° 37′, W. 32° 44′*	29.94	760.5	82.6	28.1		ese.			4		2		ese.	0	0	3	ese.	clear.
S. S. Kronprinz F. Wilhelm, N. 51° 42′, E. 2° 00′	29.50	749.3	41.0	5.0		s.			2		5		sw.	0	0	3	sw.	fair.
S. S. Main, N. 40° 44′, W. 67° 00′*	29.74	755.4	39.2	4.0		wnw.			5		6		wnw.	0	0	high	wnw.	cloudy.
S. S. Oder, N. 49° 51′, W. 16° 36′*	29.68	753.9	54.5	12.5		n.			6		8		nw.	rain	&hail	r'gh	nw.	squally.
S. S. Ohio, N 44° 21′, W 41° 18′	30.07	763.8				se.			4		8		ese.	4 h'r	driz	long	se.	cloudy.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Belgic, Hong-Kong, China†	30.06	763.5	55	12.8	87	ne.			2		0			0	0			clear.
S. S. Gaelic, N. 36° 01′, E. 178° 50′†	30.08	764.0	65	18.3	68	w.			3		10		w.			high	wnw.	cloudy.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, Savannah, Georgia†	30.23	767.8				w.			2		0			0	0			
S. S. Seminole, Boston, Mass†	29.72	754.9	48	8.9		nnw.			3		8		n.	0	0			cloudy.
OREGON IMPROVEMENT COMPANY.																		
S. S. Mississippi, N. 43° 04′, W. 124° 36′†	30.25	768 3	43	6.1	67	wsw.			3		8		sw.			mod.	wnw.	fair.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Oregon, San Francisco, Cal†	30.13	765.3	47	8.3	70	nw.			1		0							clear.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, N. 34° 21′, W. 120° 13′†	30.09	764.3	49	9.4	71	nw.			5		2		nw.			mod.	wnw.	fair.
S. S. Geo. W. Elder, Strait of Fuca†	30.05	763.3	44	6.7		n.			2		4		nw.	0	0	sm'h	w.	clear.
S. S. Idaho, N. 43° 35′, W. 124° 45′†	30.22	767.6	49	9.4	78	sse.			6		10		sse.			r'gh	ssw.	stormy.
S. S. Orizaba, N. 33° 42′ W. 118° 14′†	30.12	765.0	51	10.6	40	nw.			2				nw.	0	0	light	nw.	clear.
S. S. State of California, Astoria, Oregon†	30.07	763.8	31	0.6	?	se.			3		6		sw.	3 h'r	3 h'r			squally.
S. S. Victoria, San Francisco, Cal†	30.22	767.6	46	7.8	84	w.			5		0							clear.
PACIFIC MAIL STEAMSHIP CO.																		
S. S. Australia, S. 11° 08′ W. 109° 58′	29.88	758.9	78	25.6	100	se.			1		10			4 h'r	4 h'r	sm'h		heavy rain.
S. S. City of Rio de Janeiro, San Jose, Guatamala†	30.16	766.1	70	21.1	80	n.			2		5		n.	0	0	sm'h		fair.
S. S. Sydney, Sydney, N. S. W†	29.99	761.7	71	21.7	80	ne.			3		10		ne.	0	0	sm'h		cloudy.
S. S. Tokie, N. 25° 45′ E. 121° 03′†	30.14	765.5	51	10.6	79	nne.			8		10		nne.	30 minutes		r'gh	nne.	drizzling.
S. S. Colima, Panama, Panama†	29.95	760.7	77	25.0	82	nw.			2		1		calm	0	0			clear.
S. S. Colon, N. 36° 16′ W. 73′ 58′†	30.06	763.5	58	14.4		w.			4		0					sm'h		clear.
S. S. Grenada, N. 29° 22′ W. 115° 56′†	30.04	763.0	56	13.3	94	nw.			7		8			0	0	large	wnw.	clear.
S. S. South Carolina, Champerico†	30.03	762.7	80	26.7	78	n.			1		sk.			0	0	light	sw.	smoky.
S. S. Zelandia, S. 23° 34′ W. 174° 27′	29.95	760.7	75	23.9	86	ene.			4		10		ne.			r'gh	ne.	dull.
QUEBEC STEAMSHIP CO.																		
S. S. Muriel, N. 12° 00′ W. 60° 22′						ne.			3		0			0	0	mod	ne.	fair.
S. S. Bermuda, Ponce, W. I†	30.13	765.3	79	26.1		nnw.			1		2		ene.	0	0			fine.
RED STAR LINE.																		
S. S. Rhynland, Antwerp, Belgium	29.52	749.8	52	11.1	73	sse.			3		9		sse.	0	0			cloudy.
S. S. Switzerland, N. 43° 57′ W. 46° 09′†	29.87	758.7				ese.			5		10		ese.	2 h'r	light	r'gh	ese.	threatening
S. S. Vaderland, N. 51° 04′ W. 1° 20′*†	29.28	743.7	41	5.0		ene.			2		2		ese.	0	0	sm'h		clear.
S. S. Waesland, Jersey City, New Jersey	29.93	760.2	52	11.1		nw.			4		0			0	0			clear.
ROTTERDAM LINE.																		
S. S. Schiedam, N. 45° 18′ W. 40° 46′*	30.04	763.0	57.0	13.9	89	ese.			4		8		sse.	0	0	sm'h	sse.	cloudy.
S. S. W A Scholten, Brouwershaven, Netherlands*	29.38	746.2	54.3	12.4	77	ssw.			5		7		s.	0	0			
THINGVALLA LINE.																		
S. S. Thingvalla, Brooklyn, N Y.†	29.94	760.5	47.3	8.5		wnw.			3		3		wnw.	0	0			clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch	Mill.			
WHITE STAR LINE.																		
S. S. Celtic, Liverpool, Eng*†	29.36	745.7	41	5.0	?	s.	.....	.....	2	.....	8	.....	s.	12 h'r	sh'rs	.....	.....	cloudy.
S. S. Republic, N. 50° 25′ W. 20° 22′†	30.12	765.0	56	13.3	93	nnw.	.....	.....	6	.....	4	.....	n.	0	0	.....	n.	clear.
MISCELLANEOUS.																		
Sch. Addie Fuller, Cedar Keys, Florida†	30.31	769.9	62.5	16.9	91	ene.	.....	.....	3	0	0	.....	.....	0	0	.....	.....	clear.
Bk. Adelaide, N. 8° 23′, W. 32° 47′*†	30.08	764.0	76	24.4	.....	ene.	.....	.....	5	.....	1	.....	e	0	0	r'gh	e.	fair.
Bk. Alpha, N. 24° 00′, W. 69° 30′*†	30.10	764.5	74	23.3	.....	nne.	.....	.....	3	.....	6	.....	nne.	1 h'r	light	sm'h	.....	cloudy.
Sch. Annie M. Law, N. 43° 32′ W. 44° 50′*†	30.00	762.0	57	13.9	69	ssw.	.....	.....	4	.....	6	.....	sw.	2 h'r	light	con.	ssw.	raining.
Sch'r Annie R. Lewis, N. 33° 00′, W. 71′ 52*′†	30.12	765 0	66	18.9	.....	nw.	.....	.....	4	.....	0	.....	.....	0	0	r'gh	nw.	clear.
Sch'r Annie M. Smull, N. 7° 20′ W. 29° 00′*†	30.00	762.0	76	24.4	.....	ene.	.....	.....	.....	.....	.....	.....	ene.	0	0	mod.	ne.	clear.
Bk. Bergenseren, N. 34° 23′ W. 61° 50′	.....	.....	.....	.....	.....	w.	.....	.....	6	.....	.....	.....	w.	rain	rain	6	s.	squally.
Bk. Celestina, N. 33° 29′, W. 49° 05′*†	30.20	767.1	.....	.....	.....	sse.	.....	.....	2	.....	0	.....	.....	0	0	mod.	n.	fair.
S. E. J. Spicer, N. 40° 31′, W. 71° 50′*†	29.74	755 4	.....	.....	.....	wsw.	.....	.....	1	.....	.....	.....	.....	0	0	mod.	s.	clear.
Bk. E. L. Pettingill, S. 51° 00′, W. 80° 55′†	30.00	762.0	.....	.....	.....	nw.	.....	.....	5	.....	8	.....	wnw.	light	light	.....	w.	c oudy.
S. Enoch Train, Bremerhaven, Germany*	29.53	750.0	.....	.....	.....	se.	.....	.....	2	.....	9	.....	se.	0	0	.....	.....	overcast.
U.S.F.C.S.S. Fish Hawk, Tangier Id. Chesapeake Bay†	30.12	765 0	49	9.4	85	w.	.....	.....	2	.....	7	.....	nw.	0	0	.....	.....	fair.
Bk Freya, N. 23° 24′, W. 64° 40′	.....	.....	73	22.8	.....	calm	.....	.....	0	.....	0	.....	.....	0	0	mod.	ne.	fair.
S. Grecian, N. 39° 21′ W. 11° 10′*†	29.90	759.4	54	12.2	.....	nw.	.....	.....	9	.....	5	.....	nnw.	rains	qul's	hv'y	wnw.	
Bk. Geo. Booth, S. 26° 44′, W. 28° 44′*†.	29.95	760.7	.....	.....	.....	ese.	.....	.....	3	.....	.....	.....	.....	0	0	sm'h	.....	clear.
Bk. Granville, N. 8° 05′, W. 31° 02′*†	30.15	765.8	.....	.....	.....	ene.	.....	.....	3	.....	.....	.....	ene.	0	0	mod.	ene.	clear.
Schr. Henry Denison, N. 24° 18′, W. 63° 17′†	30.08	764.0	.....	.....	.....	se.	.....	.....	2	.....	2	.....	se.	0	0	long	e.	fair.
Bk. Johanne Auguste, S. 33° 14′, E. 81° 50′*	29.93	760.2	.....	.....	.....	ene.	.....	.....	6	.....	6	.....	nne.	3 h'r	light	r'gh	ese.	cloudy.
Bk. Kate Cann, N. 40° 10′, W. 53° 35	.....	.....	.....	.....	.....	wsw.	.....	.....	5	.....	5	.....	wsw.	8 h'r	h'vy	rg'h	sw.	
Bkt. Kryolith, N. 34° 58′, W. 56° 30′*†	29.92	760.0	.....	.....	.....	s.	.....	.....	6	.....	8	.....	s	0	0	cross	ne.	threatening
S. S. Lamperts, N. 35° 20′ W. 71° 03′*	29.97	761.2	66.6	19.2	71	nw.	.....	.....	6	.....	0	.....	.....	.....	.....	7	.....	blue sky.
Schr. Maggie Abbott, N. 38° —′, W. 40° —′*†	29.78	756.4	.....	.....	.....	w.	.....	.....	4	.....	.....	.....	w.	0	0	h'vy	sse.	clear.
Bk. Pawashick, N. 16° 07′, W. 52° 53′*†	30.35	770.9	75	23.9	86	e.	.....	.....	4	.....	5	.....	e.	.....	.....	mod.	e.	fine.
Bk. Peppina, N. 42° 03′, E. 17° 49′†	29.80	756.9	54	12.2	100	sw.	.....	.....	3	.....	2	.....	w.	.....	.....	mod.	sw.	fair.
Bk Pilgrim, S. 41° 55′, W. 10° 00′*†	29.90	759.4	.....	.....	.....	n.	.....	.....	.....	.....	.....	.....	.....	0	0	long	nw.	foggy.
Schr. S. B. Hubbard, Jacksonville, Florida*†.	30.23	767.8	70	21.1	.....	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	.....	hazy.
Bk. Stella, S. 42° 42′, W. 53° 21′*	29.62	752.3	62.2	16.8	90	sw.	.....	.....	6	.....	4	.....	w.	0	0	rg'h	sw.	clear.
Bk. Sunbeam, N. 21° 20′, W. 53° 02′*†	30.16	766.1	78	25.6	91	e.	.....	.....	3	.....	0	.....	.....	0	0	mod.	e.	clear.
S. Wm. Woodbury, Bremerhaven, Germany*†	29.50	749.3	40	4.4	100	e.	.....	.....	2	.....	1	.....	s.	.....	.....	.....	.....	

Data, as appearing in the International Bulletin of similar date.

Isobars in *black* exhibit atmospheric pressure at sea-level, and are charted from data as reported by the several observers.

Isotherms in *red* exhibit temperature of air, similarly charted.

Broken or dotted lines indicate that the lines so broken are doubtful.

Arrows, when charted, fly with the wind and exhibit wind-direction and force.

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W. B. Hazen

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

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INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON MARCH 4, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental eror and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours	.....	.....	29.97	761.2	60.4	15.8	89	n.	.....	.....	5	.....	5	.....	.....	c	0	cloudy	Moiroud.
Algiers	.....	.....	29.85	758.2	57.9	14.4	87	nw.	.....	.....	2	.....	10	.....	.....	0.213	5.4	covered	Nicolas.
La Calle	.....	.....	29.83	757.7	64.4	18.0	71	ese.	.....	.....	1	.....	4	.....	.....	0	0	cloudy	Foufrède.
Tunis	.....	.....	29.85	758.2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.00	762.1	55.0	12.8	43	nw.	.....	.....	2	.....	3	.....	.....	0.110	2.8	pretty fair	Dumas.
Tebessa	.....	.....	.....	.....	67.6	19.8	30	sw.	.....	.....	5	.....	4	.....	.....	0	0	cloudy	Derché.
Geriville	.....	.....	.....	.....	42.4	5.8	82	wsw.	.....	.....	1	.....	10	.....	.....	0	0	covered	Lonchamp.
Laghouat	.....	.....	30.02	762.5	54.0	12.2	54	se.	.....	.....	6	.....	1	.....	.....	0	0	very fair	Herbin.
Biskra	.....	.....	29.97	761.1	60.8	16.0	24	se.	.....	.....	2	.....	10	.....	.....	0	0	covered	Malau.
Australian.																			
Melbourne, Victoria	30.08	764.0	30.17	766.3	61.0	16.1	78	se.	14	6.3	.....	.....	2	.....	.....	0.16	4.1	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.13	740.0	29.68	753.9	54.5	12.5	57	sw.	.....	.....	6	.....	4	.....	.....	0.091	2.3	.....	Prof. Ivan Stozir.
Cracow, I. R Observatory	28.87	733.4	29.65	753.0	45.3	7.4	83	e.	6.3	2.8	.....	.....	10	.....	.....	0.157	4.0	.....	Dr. Wierzbiski.
Eperies	28.68	728.5	29.56	750.8	44.6	7.0	74	nw.	.....	.....	1	.....	10 ks	.....	se.	0.319	8.1	.....	Julius Mikolik.
Gratz	28.37	720.7	29.58	751.3	50.4	10.2	62	ssw.	.....	.....	2	.....	0	.....	.....	0.209	5.3	.....	Andreas Rospini.
Hermannstadt	28.43	722.0	29.85	758.3	52.3	11.3	47	wnw.	.....	.....	5	.....	4	.....	.....	0	0	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.22	716.9	29.59	751.5	39.6	4.2	87	ene.	.....	.....	1	.....	4	.....	.....	0	0	fair	The Staff.
Lemberg	28.50	723.9	29.51	749.6	36.0	2.2	91	nw.	.....	.....	1	.....	10	.....	.....	0.457	11.6	.....	Dr. T. Stanecki.
Pola	29.63	752.5	29.74	755.4	54.0	12.2	76	sse.	.....	.....	2	.....	10	.....	.....	0	0	.....	I. R. Hydrographic Office.
Szathmar	29.12	739.7	29.58	751.4	42.1	5.6	91	sw.	.....	.....	3	.....	10	.....	.....	0.433	11.0	.....	Joseph Midlinszky, S. J.
Szegedin	29.41	746.9	29.68	753.9	56.5	13.6	69	sw.	.....	.....	3	.....	6	.....	.....	0	0	.....	Karl Stancel.
Trieste	29.66	753.4	29.76	756.0	51.8	11.0	82	calm	.....	.....	0	.....	10	.....	.....	0.079	2.0	.....	Rieder.
Vienna	28.93	734.7	29.64	752.9	48.9	9.4	62	se.	.....	.....	1	.....	1	.....	.....	0.020	0.5	.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.13	739.9	29.23	742.4	46.7	8.2	65	sw.	20	8.9	.....	.....	4	.....	.....	0.020	0.5	blue sky	W. Boswell.
Armagh, Observatory	29.30	744.2	29.55	750.6	46.9	8.3	86	wsw.	15	6.7	.....	.....	10	.....	.....	.....	.....	gloomy	S. Call.
Bidston, Liverpool Obs'y	.....	.....	29.57	751.1	45.9	7.7	83	wsw.	29	13.0	.....	.....	8	.....	.....	.....	.....	overcast	John Hartnup.
Bolton, Sharples	29.03	737.3	29.56	750.8	43.6	6.4	88	wsw.	24	10.7	.....	.....	10	.....	.....	.....	.....	overcast	Thomas Mackereth [A.S.
Bradford, Yorkshire	29.14	740.1	29.54	750.3	47.3	8.5	86	sw.	.....	.....	1	.....	10	.....	.....	0.03	0.8	overcast	J. McLandsborough, F. R.
Bridgetown, Barbadoes	29.95	760.7	29.98	761.5	82.0	27.8	59	ne.	.....	.....	2	.....	3	.....	.....	.....	.....	d. clouds	Pvt. J. Surgenor, A. H.C.
Cardington	.....	.....	29.63	752.6	44.0	6.7	84	sw.	.....	.....	0.4	.....	6	.....	.....	.....	.....	d. clouds	John McLaren.
Chatham, School M. E.	29.55	750.6	29.68	753.9	46.7	8.2	73	calm	.....	.....	0	.....	3	.....	.....	.....	.....	d. clouds	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	29.56	750.8	29.78	756.4	47.6	8.7	67	wnw.	.....	.....	2	.....	3	.....	.....	.....	.....	misty	The Staff.
Fort Napier, Natal	27.60	701.0	29.82	757.4	85.2	29.6	58	calm	.....	.....	0	.....	1	.....	.....	.....	.....	blue sky	Pvt. E. K. Annis, A. H.C.
Free Town, Sierra Leone	29.63	752.6	29.86	758.4	88.0	31.1	59	nw.	.....	.....	1	.....	3	.....	.....	.....	.....	d. clouds	Sergt. John Robinson.
Galway, Queen's College	.....	.....	29.60	751.8	.....	.....	.....	n.	.....	.....	2	.....	8	.....	.....	0.15	3.8	gloomy	J. O'Donoghue.
Gibraltar, Mediterranean	29.92	760.0	29.97	761.2	61.2	16.2	77	w.	.....	.....	3	.....	8	.....	.....	.....	.....	gloomy	Cpl. O. Baldwin.
Glasgow, Observatory	29.16	740.7	29.37	746.0	44.6	7.0	84	wsw.	.....	.....	4	.....	7 k	.....	.....	.....	.....	d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.51	749.5	29.68	753.9	38.9	3.8	87	sw.	.....	.....	1	.....	0	.....	.....	.....	.....	blue sky	The Staff.
Guernsey	29.46	748.3	29.76	755.9	46.5	8.1	73	n.	.....	.....	1	.....	0	.....	.....	.....	.....	blue sky	A. Collenette, F. M. S.
Kew, Observatory	29.66	753.4	29.70	754 4	38.4	3.6	90	wsw.	7	3.1	.....	.....	3	.....	.....	.....	.....	hazy	The Staff.
Leicester, Museum	29.26	743.2	29.52	749 8	42.8	6.0	85	sw.	.....	.....	1	.....	10	.....	.....	.....	.....	overcast	J. C. Smith.
Malta, Mediterranean	29.94	760.5	30.02	762.5	62.6	17.0	69	se.	.....	.....	3	.....	4	.....	.....	.....	.....	d clouds	I. H. Whysall.
Nassau, Bahamas	30.13	765.3	30.18	766.6	72.0	22.2	69	ne.	.....	.....	2	.....	5	.....	.....	.....	.....	d. clouds	C. S. Dancombe.
Oscott, St. Mary's College	29.11	739.4	29.64	752.8	44.0	6.7	75	sw.	.....	.....	2	.....	9	.....	.....	.....	.....	d. clouds	John Mac Email.
Oxford, Radcliffe Obs'y	29.44	747.8	29.67	753.6	38.8	3.8	89	sw.	.....	.....	1	.....	1	.....	.....	.....	.....	misty	The Staff.
Plymouth	29.66	753.4	29.74	755.4	49.0	9.4	77	nw.	.....	.....	1	.....	10	.....	.....	.....	.....	overcast	John Merrifield.
Sandwick Manse, Orkneys	.....	.....	29.08	738.6	40.1	4.5	73	w.	33	14.8	.....	.....	4	.....	.....	.....	.....	showery	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.89	759.2	29.96	761.0	57.4	14.1	67	sw.	.....	.....	1	.....	0	.....	.....	blank	blank	blue sky	W. H. Lyne.
Sheffield	29.29	744.0	29.57	751.1	46.7	8.2	69	sw.	.....	.....	2	.....	8	.....	.....	0	0	overcast	W. F. Cooper.
Silloth Rectory	29.44	747.8	29.47	748.5	45.0	7.2	85	sw.	.....	.....	5	.....	10	.....	.....	0.067	1.7	overcast	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	29.57	751.1	44.2	6.8	.....	w.	17	7.6	.....	.....	10	.....	.....	.....	.....	overcast	R. S. J. Perry.
Stratfield Turgiss	29.48	748.8	29.70	754.4	43.8	6.6	83	e.	.....	.....	1	.....	0	.....	.....	.....	.....	blue sky	Rev. C. H. Griffiths, F.M.S.
Truro, Royal Institution	29.72	754.9	29.78	756.4	54	12.2	73	nw.	.....	.....	6	.....	4	.....	.....	.....	.....	d. clouds	W. Newcombe.
Valencia, Observatory	29.74	755.4	29.76	755.9	49.5	9.7	85	w.	15	6.7	.....	.....	7	.....	.....	.....	.....	d. clouds	The Met'g'l Office.
Canadian.																			
Bathurst, N. B	.....	.....	.....	.....	33.0	0.6	.....	ne.	12	5.4	.....	.....	10 n	.....	.....	1.800	45.7	snowing	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.14	740.1	29.18	741.2	33	0.6	96	ne.	16	7.2	.....	.....	10 n	.....	calm	0.845	21.5	light snow	H. J. Cundall, C. E.
Chatham, N. B*	29.28	743.7	29.34	745.2	33	0.6	100	ne.	14	6.3	.....	.....	10 n	.....	ne.	1.76	44.7	heavy snow	G. A. Blair.
Cornwall, Ontario	29.69	754.1	29.89	759.2	31.8	— 0.1	75	nw.	.....	.....	3	0	2 s	.....	.....	inap.	inap.	clear	James Smith, M. A.
Dalhousie, N. B	29.17	740.9	29.34	745.2	36.0	2.2	.....	ne.	.....	.....	2	.....	10 ks	.....	.....	0.265	6.7	cloudy	H. A. Johnson.
Father Point, Quebec*	29.66	753.4	29.68	753.9	28	— 2.2	84	ne.	40	17.9	.....	.....	10 n	.....	.....	1.53	38.9	heavy snow	J. McWilliams.
Fort Garry, Manitoba*	29.25	742.9	30.13	765.3	24	— 4.4	96	e.	6	2.7	.....	.....	10 n	.....	.....	0.110	2.8	cloudy	James Stewart.
Fredericton, N. B	29.21	741.9	29.28	743.7	34.0	1.1	90	w.	12	5.4	.....	.....	10 n	.....	.....	0.120	3.0	light snow	Prof. Harrison.
Granton, Ontario	29.13	739.9	30.30	769.6	28.0	— 2.2	100	n.	2	0.9	.....	0	0	.....	.....	0	0	clear	James Grant.
Halifax, N. S*	29.03	737.3	29.16	740.7	33	0.6	96	nw.	7	3.1	.....	.....	10 k	.....	nw.	2.14	54.4	cloudy	A. Allison.
Hamilton, Ontario	29.86	758.4	30.28	769.1	29.7	— 1.3	89	w.	.....	.....	1	0	0	.....	.....	0	0	clear	Geo. Dickson, B. A.
Kingston, Ontario*	29.74	755.4	30.08	764 0	31	— 0.6	74	nw.	9	4.0	.....	0	0	.....	.....	0	0	clear	A. P. Knight, M. A.
Little Glace Bay, N. S	29.13	739.9	29.17	740.9	33.0	0.6	94	se.	.....	.....	5	.....	10 n	.....	.....	0.73	18.5	raining	C. H. Rigby.
Montreal, Quebec*	29.61	752.1	29.83	757.7	32	0.0	65	nw.	17	7.6	.....	5 cs	5 s	n.	.....	0	0	cloudy	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.58	751.3	30.32	770.1	25	— 3.9	88	n.	10	4.5	.....	0	0	.....	.....	0	0	clear	Rev. R. Mosley.
Peterboro, Ontario	29.43	747.5	30.22	767.6	32.7	0.4	90	nw.	.....	.....	1	0	0	.....	.....	0	0	clear	J. Dixon, B. A.
Port Dover, Ontario	29.53	750.0	30.26	768.6	30	— 1.1	89	nw.	12	5.4	.....	0	0	.....	.....	0	0	clear	H. Morgan.
Port Stanley, Ontario	29.60	751.8	30.28	769.1	30	— 1.1	80	w.	7	3.1	.....	2 ck	0	nw.	.....	0	0	clear	M. Payne.
Quebec, Quebec*	29.34	745.2	29.67	753.6	32	0.0	85	ne.	.....	.....	5	.....	10 n	.....	n.	0.05	1.3	light snow	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.74	755.4	30.22	767.6	27	— 2.8	88	nw.	6	2.7	.....	0	0	.....	.....	inap.	inap.	clear	W. H. McIntyre.
Saugeen, Ontario*	29.57	751.1	30.33	770.4	26	— 3.3	92	ne.	4	1.8	.....	0	0	.....	.....	0	0	clear	
St. Andrews, N. B	29.15	740.4	29.20	741.7	33	0.6	93	n.	7	3.1	.....	.....	10 n	.....	.....	inap.	inap.	light snow	
St. John, N. B	29.02	737.1	29.18	741.2	34.0	1.1	100	ne.	8	3.6	.....	.....	10 s	.....	.....	0.270	6.9	cloudy	G. Murdock, C. E.
St. Pierre, N. F	.....	.....	29.45	748.0	28.4	— 2.0	.....	ne.	.....	.....	3	.....	.....	.....	.....	0.30	7.6	.....	N. F. Land, Com't.
Stratford, Ontario	28.94	735.1	30.30	769.6	27.0	— 2.8	87	nw.	5	2.2	.....	0	0	.....	.....	0	0	clear	C. I. Macgregor, M. A.
Sydney, C. B*	29.15	740.4	29.21	741.9	34	1.1	96	e.	16	7.2	.....	.....	10 n	.....	.....	1.21	30.7	light rain	T. C. Hill, C. E.
Toronto, Ontario*	29.87	758.7	30.27	768.8	30	— 1.1	71	n.	26	11.6	.....	0	2 s	.....	.....	0	0	clear	Magnetic Observatory.
Windsor, N. S	29.06	738.1	29.15	740.4	34.0	1.1	95	w.	2	0.9	.....	.....	9 n	.....	.....	1.31	33.3	cloudy	Prof. W. R. Butler.
Woodstock, Ontario	29.16	740.7	30.28	769.1	28.5	— 1.9	77	nw.	11	4.9	.....	0	2 s	.....	.....	0	0	clear	Prof. Wolverton.
Yarmouth, N. S*	29.17	740.9	29.24	742.7	34	1.1	85	nw.	13	5.8	.....	2 ck	4 s	w.	nw.	.....	.....	light snow	Lt. F. E. Wilmot, R. N.
Sub-arctic.																			
St. Johns, Newfoundland	29.56	750.8	29.82	757.4	32	0.0	100	ne.	.....	.....	.....	fg	fg	.....	.....	0	0	foggy	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.08	764.0	30.11	764.8	68.0	20.0	83	w.	15.3	6.8	.....	0	0	.....	.....	0.050	1.3	hazy	John Duthie.
Cape Town, C. G. H. Obs'y	30.03	762.7	30.07	763.8	74.8	23.8	45	nw.	10	4.5	.....	0	1	.....	.....	0.230	5.8	.....	The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	OBSERVERS.
CHINESE (*Sub-series*).																			
Hankow																			N. Titoushkin.
Zi-Ka-Wei, near Shanghai.	30.45	773.4	30.48	774.1	37.4	3.0	83	nne.	3.1	1.4		2 ck	0			0	0	fair	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	29.51	749.6	29.56	750.8	39.9	4.4	87	se.	14.5	6.5			10						Oversergent Fischer.
Fanöe	29.48	748.7	29.50	749.2	39.0	3.9	93	wsw.			2		10						Overloerer Lauridsen.
Godthaab, Greenland	29.88	759.0	29.93	760.1	12.7	—10.7	100	nw.			2		10						S. Kleinschmidt.
Stykkisholm, Iceland	28.80	731.5	28.84	732.6	27.9	— 2.3	94	sw.			2		10					snowing	A. O. Thorlacius.
Thorshavn	28.69	728.8	28.73	729.7	37.0	2.8	59	wnw.	27	12			5						Overloerer Bergh.
Vestervig	29.34	745.3	29.43	747.6	36.5	2.5	98	s.			2		9						Loearer Oesterboi.
FRENCH.																			
Agen, Normal School	28.91	734.2	29.57	751.0	45.7	7.6	77	calm			0		n; kn		nw.	0.402	10.2		M. Labroue, Director.
Alençon, Normal School	29.17	741.0	29.72	755.0	45.5	7.5	64	ne.			3	ck	0	sw.		0.134	3.4		M. Nicot, Director.
Arras, Engineer School	29.36	745.8	29.63	752.5	46.0	7.8	70	n.			1	ck	0	n.		0	0		M. Klein, Commandant.
Avignon, Normal School	29.47	748.6	29.55	750.6	46.4	8	72	sw.			1		10			0.850	21.6	covered	M. Giraud, Director.
Bar-sur-Seine	29.00	736.7	29.56	750.7	48.7	9.3	71	w.			1		3			0	0	slightly cl'dy	M. Saillard, Director.
Beauvais, Normal School	29.41	747.0	29.68	753.9	45.5	7.5	64	nne.			1		8		n.	0.165	4.2	very cloudy	M. Frère Eugène Marl.
Besançon, Normal School	28.38?	720.8?	29.26?	743.1?	49.1	9.5	79	ne.			1		n		se.	0	0		M. Gobin, Director.
Bordeaux, Observatory	29.39	746.6	29.67	753.6	42.8	6.0	85	n.			1		10		n.	0.272	6.9	covered	M. Rayet, Director.
Bourges, Normal School	29.02	737.0	29.57	751.0	45.5	7.5	77	n.			1		kn		n.	0.20	5.		M. Postel, Director.
Brest, Naval Observatory	29.61	752.2	29.86	758.4	50.0	10.0	71	nne.			1		6		nne.	0.138	3.5		M. de Kermaree, Dir.
Caen, Normal School	29.61	752 2	29.69	754.2	48.2	9	89	nw.			1		2		nw.	0.12	3.	slightly cl'dy.	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.20	741.7	29.52	749.8	48.7	9.3	81	w.			1		5	w.	nw.	0.236	6.0	cloudy	M. Jadot, Director.
Charleville, Normal School	29.05	737.8	29.56	750.7	44.6	7	66	nw.			1		5			0.31	8.	½ covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.19	715.9	29.56	750.9	39.9	4.4	90	nw.			1		10			0.146	3.7	raining	M. Alluard, Director.
Cluny, Normal School	28.68	728.5	29.57	751.0	44.6	7	86	n.			1		6		ne.	0.28	7.		M. de Villemontée, Dir.
Commercy, Normal School	28.69	728.8	29.56	750.8	54.1	12.3	56	se.			1	2 c		se.	se.	0.20	5.	slightly cl'dy	Dr. Coulet, Director.
Gap, Normal School	27.04	686.8	29.63	752.6	36.0	2.2	82	e.			4	0	3 n		sw.	0.626	15.9		M. Jeangirard, Director.
Gréasque, du. Rhone	28.43	722.2	29.52	751.2	43.2	6.2	97	wnw.			1		10		sw.	0.43	11.	raining	M. Kina, Director.
Grenoble, Normal School	28.71	729.2	29.47	748.6	47.8	8.8	73	ene.			1		kn	ne.	se.	0.098	2.5		M. Ablard, Director.
Guéret, Normal School	28.02	711.6	29.67	753.7	38.3	3.5	90	nw.			1		n		nw.	0.47	12.		M. Rivoire, Director.
Lamballe, Normal School	29.51	749.5	29.78	756.5	48.2	9	73	nnw.			3		5		nnw.	0.543	13.8	cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.07	738.3	29.63	752.7	48.9	9.4	71	w.			1		10			0.31	8.	covered	M. Chauvin, Director.
Lorient, Naval Observatory	29.71	754.5	29.80	757.0	50.0	10.0	62	n.			3		5		n.	0.079	2.0	½ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.49	723.6	29.56	750.8	40.6	4.8	91	wnw.			2	c	10 n			1.063	27.0	covered	M. André, Director.
Mans, Normal School	29.41	746.9	29.72	754.9	43.3	6.3	95	nne.			1		2		ne.	0.20	5.	slightly cl'dy	M. Piboen, Director.
Marseille, Observatory	29.34	745.1	29.61	752.0	48.1	9.0	85	wsw.			3		10		wsw.	0.417	10.6		M. Stephan, Director.
Montlouis l'Instituteur	24.35	618.6	29.20	741.6	32.0	0.0	78	w.	5.6	2.5			7		ssw.	0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.33	745.0	29.46	748.3	46.0	7.8	88	w.			3		10			0.12	3.	covered	M. Galzin, Director.
Nancy, Normal School	28.74	730.0	29.52	749.7	50.7	10.4	56	w.			1	2 c	0			0.098	2.5	slightly cl'dy	M. Hasse, Director
Nantes, Observatory	29.60	751.9	29.75	755.6	65.1?	18.4?	70	n.			1–2		10kn; n		n.	0.177	4.5		M. Larocque, Director.
Perpignan, Observatory	29.47	748.6	29.58	751.4	54.0	12.2	50	nw.	5.6	2.5			5		nw.	0.039	1.0		Dr. Fines, Director.
Pic-du-Midi, Summit	20.66	524.7			14.7	— 9.6		n.			1		10		n.	0.654	16.6	snowy	Gen'l de Nansouty, Dir.
Privas, Normal School	28.38	720.9	29.46	748.3	41.0	5	97	s.			1		10		sw.	1.81	4.6	raining	M. Tailleu.
Puy de Dôme Obs'y, Summit	24.62	625.3			27.1	— 2.7	100	n.			4		10			0.181	4.6	snowing	M. Alluard, Director.
Rochefort, Naval Obs'y	29.64	752.8	29.67	753.6	47.1	8.4	83	nne.			1		10		n.	0.004	0.1	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.46	748.3	29.68	753.8	44.2	6.8	83	ne.			1		5		ene.	0.228	5.8	cloudy	M. Mouillot, Director.
Rodez, Normal School	27.43	696.7	29.63	752.5	33.1	0.6	96	w.			1		10			0.374	9.5	snowing	M. Serger, Director.
Rouen, Normal School	29.64	752.8	29.69	754.0	48.9	9.4	56	n.			1		8			0	0	very cloudy	M. Platrier, Director.
Saint Maur, Observatory	29.48	748.9	29.65	753.1	43.2	6.2	75	n.			2		10		n.	0.280	7.1		M. Renou, Director.
Toulouse, Observatory	28.91	734.4	29.63	752.5	44.6	7.0	82	nnw.			1		8		n.	0.354	9.0	very cloudy	M. Baillaud, Director.
Versailles, Observatory	29.18	741.1	29.67	753.6	42.8	6.0	75	n.			2					0.004	0.1		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.36	745.8	29.65	753.2	43.0	6.1	72	nne.			2		10		ne.	0.256	6.5		M. Marié Davy, Director
GERMAN.																			
Bamberg	28.73	729.8	29.58	751.2	46.4	8.0	50	se.			2	0	4 8			0	0		Prof. Dr. Hoh.
Berlin	29.35	745.5	29.52	749.9	51.6	10.9	61	s.			1		6			0	0		Prof. Dr. Arndt.
Breslau	29.09	738.8	29.61	752.1	48.9	9.4	69	ese.			2		5			0.016	0.4		Royal University Obs'y.
Carlsruhe	29.06	738.2	29.49	749.1	53.2	11.8	44	e.			1		5	sw.		0	0		Albert Senz.
Cassel	28.78	731.1	29.50	749.3	47.5	8.6	46	s.			2		8	s.		0.110	2.8		Dr. H. Möhl.
Frankfort on the Main	29.17	740.8	29.53	750.0	50.4	10.2	56	se.			1		9			0	0		Physical Society.
Friedrichshafen	28.06	712.8	29.50	749.2	45.7	7.6	62	ne.			4		6	sw.		0.047	1.2		Wilhelm, Chief Tel.
Hamburg	29.43	747.6	29.53	750.0	39.9	4.4	97	calm			0		10			0.150	3.8	foggy	E. Preller.
Kiel	29.48	748.9	29.50	749.3	40.3	4.6	92	ene.			2		10			0.193	4.9		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.14	740 1	29.56	750.8	48.9	9.4	59	s.			2		7	ssw.		0	0		H. Leppig, Asst.
Magdeburg	29.34	745.3	29.93	760.1	49.1	9.5	65	se.			2		7	ssw.		0	0		H. Leppig, Asst.
Memel	29.71	754.6	29.76	755.8	36.3	2.4	91	e.			2	7 c	0	wsw.		0.043	1.1		Dr. Assmann.
Munich	27.71	703.9	29.54	750.4	45.5	7.5	49	ne.			1		6	w.		0	0		Issermann.
Neufahrwasser	29.66	753.3	29.67	753.7	37.6	3.1	90	se.			1		10			0	0		Central Station.
Neustadt, Palatinate	28.98	736.1	29.50	749.2	49.3	9.6	65	calm			0		7			0	0		A. Lothes.
Stuttgart	28.56	725.3	29.44	747.8	50.9	10.5	43	e.			2		4	w.		0	0		Dicknether.
Wustrow	29.52	749.7	29.54	750.3	44.8	7.1	83	sse.			2		10 8			0.031	0.8		Prof. Dr. Schoder.
GREEK.																			Profs. Brandes & Reimer.
Athens	29.72	754.8	30.11	764.7	62.8	17.1		sw.			1.5		3			0	0	misty	Schmidt & Wourliach.
INDIAN.																			
Bellary	28.35	720.1			94.2	34.6	15	se.	2.8	1.3		0	0			0	0	blue sky	
Kurrachee	29.92	759.9	29.97	761.2	76.2	24.6	56	wsw.	16	7.2			0			0	0	blue sky	
Deesa	29.37	746.0	29.84	758.0	85.3	29.6	29	se.	10.4	4.6			0			0	0	blue sky	
Bombay	29.84	757.9	29.88	758.9	77.6	25.3	55	nw.	13	5.8			0			0	0	blue sky	
Poona, Yarrowda	27.95	709.9	29.77	756.1	87.9	31.1	18	sw.	17	7.6			0			0	0	blue sky	
Belgaum	27.29	693.1	29.80	756.8	81.5	27.5	43	s.	10	4.5			0			0	0	blue sky	
Lahore	29.23	742.5	29.99	761.8	71.8	22.1	30	n.	2.6	1.2			0			0	0	blue sky	
Roorkee	29.01	736.8	29.92	760.0	75.2	24.0	21	w.	2.6	1.2			0			0	0		
Agra	29.39	746.4	29.96	760.9	78.2	25.7	21	n.	4.1	1.8			0			0	0		
Nagpur	28.79	731.3	29.82	757.3	89.7	32.1	24	n.	4.3	1.9			0			0	0	blue sky	
Jubbulpore	28.56	725.4	29.91	759.7	82.9	28.3	13	e.	2.9	1.3			0			0	0	blue sky	
Lucknow	29.53	750.1	29.91	759.6	81.2	27.3	16	wsw.	5.9	2.6			0			0	0	misty	
Allahabad	29.60	751.8	29.91	759.8	77.4	25.2	22	nw.	2.7	1.2			0			0	0	blue sky	
Patna	29.72	754.9	29.91	759.7	78.1	25.6	34	wnw.	7.0	3.1			0			0	0	blue sky	
Hazaribagh	27.88	708.1	29.89	759.2	77.8	25.4	27	nw.	12.8	5.7			0			0	0	blue sky	
Cuttack	29.77	756.1	29.85	758.1	89.9	33.2	37	se.	0.8	0.4			0			0	0	blue sky	
Calcutta, Alipore	29.85	758.1	29.87	758.6	84.2	29.0	28	nnw.	4.0	1.8			0			0	0	blue sky	
Dhubri	29.72	754.8	29.84	757.8	77.3	25.2	35	calm	1.8	0.8			0			0	0	blue sky	
Chittagong	29.82	757.4	29.91	759.7	77.2	25.1	82	sw.	4.0	1.8			0			0	0	blue sky	
Sibsagar	29.52	749.8	29.86	758.6	69.3	20.7	77	ne.	3.3	1.5			2			0	0	blue sky	
Jeypore	28.48	723.3	29.93	760.1	79.4	26.3	21	sw.	5.0	2.2			1			0	0	blue sky	
Zanzibar, Africa	29.80	756.9			83.1	28.4	75	n.	8.9	4.0			3			0	0	d. clouds	
Trichinopoly	29.56	750.8			92.7	33.7	25	e.	2	0.9			0			0	0	blue sky	
ITALIAN.																			
Udine	29.35	745.6	29.77	756.1	49.5	9.7	72	calm	0	0			9			0.055	1.4		Prof. Giovanni Clodig.
Milan	29.14	740.2	29.67	753.5	45.5	7.5	87	ne.	5.6	2.5			10			0.406	10.3		Prof. Schiaparelli.
Padua	29.62	752.3	29.73	755.1	51.3	10.7	75	ne.	13.6	6.1			10	e.		0.020	0.5		Prof. Dott. Lorenzoni.
Moncalieri	28.74	730.1	29.67	753.5	43.7	6.5	95	n.	4.3	1.9			10	n.		0.614	15.6		Prof. P. F. Denza.
Genoa	29.42	747.2	29.61	752.1	49.1	9.5	88	sw.	8.7	3.9			10	sw.		1.677	42.6		Prof. G. M. Garibaldi.
Mondovi	27.70	703.5	29.64	752.8	34.2	1.2	92	w.			4		10			0.331	8.4		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
ITALIAN.—Continued.																			
Pesaro	29.71	754.6	29.76	755.8	53.2	11.8	71	se.	11.2	5.0	.....	.....	10	.....	.....	0	0	.....	Prof. Luigi Guidi.
Florence	29.45	748.1	29.71	754.6	50.7	10.4	84	se.	.....	.....	4	.....	10	.....	.....	0.189	4.8	.....	Prof. Costantino Pitter.
Leghorn	29.52	749.9	29.61	752.1	54.9	12.7	72	s.	4.3	1.9	.....	.....	10	sw.	.....	0.157	4.0	.....	Prof. P. Monte.
Rome	29.62	752.3	29.79	756.7	58.8	14.9	64	sse.	19.9	8.9	.....	.....	10	.....	.....	0.039	1.0	.....	Prof. P. S. Ferrari.
Lecce	29.72	755.0	29.98	761.5	57.6	14.2	69	sw.	12.5	5.6	.....	.....	7	.....	.....	0	0	.....	Prof. C. de Giorgi.
Cosenza	29.09	738.8	29.99	761.7	55.8	13.2	73	sse.	3.8	1.7	.....	.....	7	ce.	.....	0.126	3.2	.....	Prof. D. Conti.
Cagliari	29.56	750.8	29.75	755.7	59.0	15.0	63	ssw.	.....	.....	4	.....	10	.....	.....	0.087	2.2	.....	Prof. A. Pacinotti.
Palermo	29.67	753.7	29.93	760.1	65.1	18.4	32	ssw.	37.4	16.7	.....	.....	10	.....	.....	0	0	.....	Prof. G. Ciaccialore.
Syracuse	30.01	762.3	30.09	763.4	63.7	17.6	62	ssw.	22.4	10.0	.....	.....	10	ssw.	.....	0.039	1.0	.....	Prof. Vincenzo Guiliano.
Sub-series.																			
Naples, S. It	29.36	745.8	29.89	759.2	56.8	13.8	71	s.	4.9	2.2	.....	.....	10	wsw.	.....	0.004	0.1	.....	Prof. T. Brioschi.
Stelvio	21.74	552.1	.....	.....	25.3	— 3.7	79	sw.	.....	.....	6	.....	10	.....	.....	0	0	misty	Prof. P. F. Denza.
Valdobbia	21.73	552.0	.....	.....	19.4	— 7.0	74	e.	.....	.....	6	.....	10	.....	.....	1.181	30.0	covered	Prof. P. F. Denza.
JAPANESE.																			
Aomori	29.94	760.5	29.97	761.2	33.0	0.6	92	sse.	5.2	2.3	.....	.....	10 s	.....	.....	0	0	covered	K. Ogawa.
Hakodate	29.92	759.9	29.93	760.2	34.5	1.4	60	sw.	7.2	3.2	.....	.....	10	....	sw.	0	0	overcast	
Hiroshima, I. M. Obs'y	30.05	763.5	30.08	764.0	39.5	4.2	74	wnw.	2.2	1.0	.....	3 ck	0	nw.	.....	0	0	fair	K. Sasaki.
Kanazawa	29.93	760.2	30.04	763.0	35.8	2.1	92	ese.	3.8	1.7	.....	ck	9 n	w.	.....	0.350	8.9	cloudy	S. Endo.
Kioto	29.84	757.9	30.02	762.5	38.0	3.3	82	ssw.	1.1	0.5	.....	0	0	.....	.....	0	0	clear	M. Tojima.
Kochi	30.05	763.3	30.08	764.0	40.4	4.7	90	n.	3.7	1.6	.....	30k;cs	0	w.	.....	0	0	clear	
Nagasaki, I. M. Obs'y	29.98	761.5	30.19	766.8	42.4	5.8	71	nne.	1.0	0.4	.....	4 ck	0	.....	.....	0	0	clear	S. Takehayashi.
Nigata	29.97	761.2	30.01	762.2	36.1	2.3	95	sw.	7.6	3.4	.....	.....	10 n	.....	w.	0.330	8.4	light rain	
Nobiru	29.95	760.7	29.97	761.2	38.3	3.5	84	nnw.	4.5	2.0	.....	ck	10 s	.....	.....	0	0	overcast	H. Midzushina.
Supporo	.....	.....	.....	.....	30.0	— 1.1	92	se.	6.0	2.7	.....	.....	10	.....	.....	0	0	covered	
Tokei Obs'y, Yeddo	29.88	758.9	29.96	761.0	39.3	4.1	83	n.	4.0	1.8	.....	6 ck	3 ks;s	nw.	.....	0	0	cloudy	The Staff.
Wakayama	29.99	761.7	30.04	763.1	46.3	7.9	65	wnw.	2.9	1.3	.....	ck	6 ks	w.	.....	0	0	fair	Y. Kuwamuea.
MAURITIUS.																			
Mauritius Observatory	29.65	753.1	29.83	757.7	77.2	25.1	83	e.	20.5	9.2	.....	.....	10ks;n	....	ese.	0.17	4.3	overcast	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.75	603.2	29.97	761.2	55.4	13.0	81	calm	0	0	.....	0	0	.....	.....	0	0	clear	Vicente Fernandez.
Leon	24.39	619.3	30.12	765.0	54.3	12.4	67	nnw.	.....	.....	1	0	1	.....	.....	0	0	foggy	Prof. M. Leal.
Mazatlan	29.71	754.7	29.98	761.4	62.0	16.7	100	e.	0.9	0.4	.....	.....	.....	.....	.....	0	0	misty	F. Quijano, C. E.
Mexico, Central Obs'y	23.10	586.6	30.19	766.9	50.2	10.1	66	calm	0	0	.....	0	0	.....	.....	0	0	fine	M. Tena, M. D.
Morelia	24.17	614.0	30.30	769.7	55.8	13.2	68	e.	.....	.....	3	3	4	s.	sw.	0	0	.....	The Staff.
Pabellon, Aguascallentes	23.98	609.0	30.08	764.0	49.3	9.6	50	calm	0	0	.....	0	0	.....	.....	0	0	.....	M. Y. de Leon, M. E.
Puebla, Catholic Institute	23.45	595.5	30.28	769.1	49.3	9.6	69	calm	0	0	.....	0	0	.....	.....	0	0	clear	Prof. P. Spina.
San Luis Potosi	24.14	613.0	30.09	764.5	62.7	17.1	43	ese.	.....	.....	1	4	0	w.	.....	0	0	.....	G. Barroeta, M. D.
Vera Cruz	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Zacatecas	22.56	573.0	30.16	766.0	57.2	14.0	46	nnw.	4.4	1.9	.....	0	0	.....	.....	0	0	fine	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.63	752.5	29.63	752.5	46.9	8.3	.....	nnw.	.....	.....	4	.....	.....	.....	.....	0	0	.....	
Groningen	29.50	749.2	29.55	750.6	42.8	6.0	.....	nw.	.....	.....	1	.....	.....	.....	.....	0	0	.....	
Helder	29.57	751.1	29.57	751.1	41.7	5.4	.....	nw.	.....	.....	1	.....	.....	.....	.....	0	0	.....	
Hellevoetsluis	29.59	751.5	29.59	751.5	46.9	8.3	70	wnw.	.....	.....	1	.....	.....	.....	.....	0.004	0.1	.....	
Utrecht	29.55	750.5	29.60	751.7	49.1	9.5	68	ene.	.....	.....	1	.....	5	.....	.....	0.071	1.8	cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.14	740.2	29.21	741.8	36.0	2.2	68	sse.	27	12	.....	.....	10	.....	.....	0	0	.....	
Brono	29.10	740.7	29.20	741.7	25.0	— 3.9	35	se.	18	8	.....	.....	0	.....	.....	0	0	.....	
Christiania	29.37	746.1	29.53	750.0	25.2	— 3.8	62	ssw.	4	2	.....	.....	6	.....	.....	0	0	.....	
Glæsvær	29.21	741.9	29.23	742.5	19.0	— 7.2	.....	se.	.....	.....	7	.....	9	.....	.....	.....	.....	.....	
Lodingen	29.20	741.7	29.25	742.9	22.3	— 5.4	53	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	
PORTUGUESE.																			
Angra, Azores	.....	.....	.....	.....	60.4	15.8	81	wnw.	5.6	2.5	.....	.....	2	.....	.....	0	0	.....	Dr. J. A. Sampaio.
Campo Major	28.90	734.1	29.91	759.8	50.9	10.5	62	nnw.	16.8	7.5	.....	.....	2	....	.....	0.307	7.8	.....	Dr. A. M. R. dos Santos.
Funchal, Maderita	30.17	766.3	30.26	768.6	63.1	17.3	65	sw.	1.8	0.8	.....	.....	7	.....	.....	0	0	.....	Capt. D. A. de Cunha.
Lisbon, Observatory	29.67	753.7	30.04	763.0	52.2	11.2	69	nnw.	18.1	8.1	.....	.....	5	.....	.....	0.382	9.7	.....	The Staff.
Ponta Delgada, Azores	30.34	770.5	30.41	772.3	63.3	17.4	76	sw.	2.5	1.1	.....	.....	4	.....	.....	0	0	.....	
Saint Paul de Loando	29.64	752.9	29.84	757.9	83.8	28.8	80	w.	1.8	0.8	.....	.....	2	sse.	.....	0	0	.....	
Serra da Estrella	25.05	636.2	29.93	760.3	30.2	— 1.0	100	nnw.	.....	.....	4	.....	7	.....	.....	0	0	.....	
RUSSIAN.																			
Akmolinski	29.34	745.1	30.52	775.1	14.5	— 9.7	91	sw.	13	6	.....	.....	10 n	.....	.....	0	0	.....	Major K. Lasarew.
Archangel	29.50	749.2	29.52	749.7	19.0	— 7.2	87	se.	4	2	.....	.....	10	.....	.....	0	0	.....	Capt. Sselilwerstow.
Astrakhan	30.28	769.2	30.20	767.1	42.4	5.8	50	se.	9	4	.....	0	0	.....	.....	0	0	.....	Capt. Wisganow.
Barnaul	30.02	762.6	30.58	776.6	13.8	—10.1	78	calm	0	0	.....	.....	5	.....	.....	0	0	.....	Meteorological Obs'y.
Dorpat	29.52	749.7	29.77	756.1	29.7	— 1.3	67	w.	7	3	.....	.....	10 n	.....	.....	0	0	.....	Observatory.
Ekaterinburg	29.20	741.6	30.22	767.5	26.8	— 2.9	61	se.	7	3	.....	.....	10	.....	.....	0	0	.....	Meteorological Obs'y.
Kasan	29.71	754.6	30.00	761.9	25.5	— 3.6	92	sse.	7	3	.....	.....	10	.....	.....	0.047	1.2	.....	Observatory.
Kertch	29.76	755.9	29.78	756.4	45.5	7.5	90	s.	4	2	.....	.....	10 n	.....	.....	blank	blank	.....	Lagorio & Sastyrez.
Kieff	28.56	725.4	29.19	741.4	43.2	6.2	100	sse.	11	5	.....	.....	10 n	.....	.....	0.717	18.2	light rain	Observatory.
Lugan	29.60	751.7	29.80	756.9	50.7	10.4	71	s.	2	1	.....	.....	8	.....	.....	0	0	.....	Meteorological Obs'y.
Moscow	29.26	743.3	29.75	755.7	38.1	3.4	73	ssw.	4	2	.....	0	7 ks	....	.....	0.862	21.9	.....	Meteorological Obs'y.
Nikolaiev	29.53	750.1	29.60	751.9	48.2	9.0	87	s.	18	8	.....	cs	4 n	.....	.....	0.051	1.3	.....	Capt. Kurdakow.
Nikolaievsk, on the Amoor	30.19	766.7	30.27	768 9	—11.6	—24.2	82	calm	0	0	.....	.....	0	.....	.....	0	0	.....	Lieut. Iwanow.
Pekin, China	30.39	771.9	30.53	775.5	34.9	1.6	43	calm	0	0	.....	2 cs	0	.....	.....	0	0	.....	Physical Observatory.
St. Petersburg	29.71	754.7	29.73	755.1	23.7	— 4.6	70	sw.	11	5	.....	.....	10 n	.....	.....	0	0	.....	Central Physical Obs'y.
Tashkend, Laboratory	28.80	731.4	30.47	774.0	31.3	— 0.4	81	calm	0	0	.....	.....	0	.....	.....	0	0	.....	Teich, A. M.
Tiflis	28.76	730.4	30.17	766.3	60.3	15.7	37	s.	4	2	.....	0	0	.....	.....	0	0	.....	Physical Observatory.
Vladivostok	30.18	766.6	30.25	768.3	8.6	—13.0	58	n.	4	2	.....	0	0	.....	.....	0	0	.....	
Warsaw	29.23	742.5	29.67	753.5	36.0	2.2	91	nne.	2	1	.....	.....	10 ks	.....	.....	.....	.....	.....	Astronomical Obs'y.
Wilna	29.27	743.4	29.70	754.3	36.9	2.7	85	ne.	2	1	.....	.....	10	.....	.....	0	0	heavy cl'ds.	Berg, Assistant.
Yeniseisk	30.09	764.2	30.40	772.1	18.1	— 7.7	76	wnw.	18	8	.....	.....	10	.....	.....	0.008	0.2	.....	M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	29.54	750.3	29.65	753.0	54.7	12.6	54	nw.	4.3	1.9	.....	.....	5	.....	.....	0	0	.....	Antonio Rave, Director.
Bilbao, Met. Obs'y	29.74	755.4	29.80	756.9	52.5	11.4	70	n.	4.5	2.0	.....	2	7	se.	.....	0.307	7.8	almost cov'd	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	26.83	681.4	29.93	760.2	32.0	0.0	97	nw.	9.8	4.4	.....	.....	10	.....	.....	0.118	3.0	covered	Domingo Martin.
Madrid, Royal Obs'y	27.54	699.5	29.79	756.7	47.3	8.5	56	nw.	21.7	9.7	.....	0	3	.....	.....	0.240	6.1	cloudy	The Staff.
Murcia, Met. Obs'y	29.60	751.8	29.75	755.7	58.3	14.6	54	wsw.	4.3	1.9	.....	4	3	se.	.....	0.008	0.2	cloudy	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.02	737.2	29.94	760.4	47.8	8.8	97	n.	8.7	3.9	.....	.....	10	.....	.....	0.524	13.3	raining	R. Gil Vallanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I	30.00	762.0	30.07	763.6	64.1	17.8	84	se.	1.3	0.6	.....	0	0	.....	.....	0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.91	759.7	29.97	761.2	81.5	27.5	61	e.	8.8	3.9	.....	0	2 ck	.....	ene.	0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.86	758.5	29.96	761.0	56.3	13.5	62	w.	12.2	5.5	.....	0	6	.....	w.	0.097	2.5	.....	Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	29.97	761.2	30.06	763.5	73.4	23.0	92	calm	0	0	.....	3 c	3 k	se.	se.	0.020	0.5	cloudy	Manuel Maeu.
Tuguegarao, Philippine Id's	29.90	759.4	30.03	762.7	74.1	23.4	77	nnw.	11.5	5.1	.....	4 ck	1 ks	ese.	ne.	0	0	cloudy	José L. Yrastorza.
SWEDISH																			
Haparanda	29.59	751.5	29.63	752.5	3.6	—15.8	100	n.	.....	.....	2	.....	2	.....	.....	0	0	.....	
Umea	29.56	750.8	29.61	752.1	18.0	— 7.8	100	sw.	.....	.....	2	.....	10	.....	.....	0.031	0.8	.....	
Hernosand	29.51	749.6	29.56	750.9	19.9	— 6.7	65	s.	.....	.....	2	.....	10	.....	.....	0	0	.....	
Stockholm	29.45	747.9	29.62	752.4	24.1	— 4.4	86	ene.	.....	.....	2	.....	10	.....	.....	.....	.....	snowing	
Wisby	29.58	751.2	29.63	752.7	35.2	1.8	82	w.	.....	.....	2	.....	3	....	.....	0.016	0.4	.....	
Sub-series.																			
Upsala	29.52	749.7	29.60	751.9	22.5	— 5.3	79	se.	6.3	2.8	.....	.....	10	.....	.....	0.303	7.7	snowing	S. G. Fineman.
SWISS.																			
Geneva	28.08	713.3	29.53	750.1	46 9	8.3	51	nw.	.....	.....	1	.....	.....	.....	.....	0	0	covered	The Observatory.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	OBSERVERS.
TURKISH.																			
Constantinople	.....	.....	30.00	762.1	59.5	15.3	59	sw.	9	4.0	.....	.....	0	.....	.....	0	0	.....	The Observatory.
Valona	.....	.....	30.07	763.7	58.5	14.7	.....	sw.	.....	.....	1	.....	10	.....	.....	0	0	covered	A. Bertrand.
Sub-sertes.																			
Beirut, Lee Obs'y, Syria	.....	.....	30.10	764.4	63.1	17.3	69	ene.	.....	.....	2	1 c	0	.....	.....	0	0	.....	Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	29.79	756.7	29.88	758.9	38	3.3	76	w.	14	6.3	.....	0	0	.....	.....	0	0	clear	J. O. Barnes.
Alpena, Michigan	29.68	753.9	30.38	771.6	24	— 4.4	88	nw.	2	0.9	.....	0	1 s	.....	.....	0	0	clear	Jas. J. Fitzgerald.
Atlanta, Georgia	28.93	734.8	30.14	765.5	57.0	13.9	60	w.	8	3.6	.....	0	0	.....	.....	0	0	clear	H. Hall.
Atlantic City, New Jersey	29.98	761.5	29.59	761.7	35.9	2.2	61	w.	13	5.8	.....	0	0	.....	.....	0	0	clear	Jas. M. Watson.
Augusta, Georgia	29.92	760.0	30.12	765.0	49.6	9.8	77	calm	0	0	.....	0	sk.	.....	.....	0	0	clear	John Healy.
Baltimore, Maryland	30.08	764.0	30.14	765.5	40	4.4	57	nw.	5	2.2	.....	0	hz.	.....	.....	0	0	clear	Robert Seyboth.
Barnegat, New Jersey	29.95	760.7	29.97	761.2	36.8	2.7	66	nw.	20	8.9	.....	0	0	.....	.....	0	0	clear	Chas. F. Merritt.
Bismarck, Dakota	27.95	709.9	29.87	758.7	31	— 0.6	88	e.	12	5.4	.....	.....	10 n	.....	.....	0.17	4 3	light snow	Cyrus Cramer.
Boise City, Idaho	27.16	689.9	30.08	764.0	18	— 7.8	96	e.	4	1.8	.....	.....	10 s	.....	calm	0.08	2.0	cloudy	B. E. Light.
Boston, Massachusetts	29.45	748.0	29.61	752.1	36.0	2.2	61	w.	19	8.5	.....	0	0	.....	.....	0	0	clear	O. B. Cole.
Brownsville, Texas	29.86	758.4	29.91	759.7	73	22.8	97	se.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. C. Galloway.
Buffalo, New York	29.48	748.8	30.27	768.8	31.2	— 0.4	86	nw.	6	2.7	.....	4 ck	2 ks	nw.	nw.	0	0	fair	Wm. Finn.
Burlington, Vermont	29.50	749.3	29.81	757.2	33.3	0.7	51	n.	25	11.2	.....	.....	10 n	.....	n.	0.15	3.8	light snow	G. C. Schaeffer.
Cairo, Illinois	29.62	752.3	30.04	763.0	53.6	12.0	82	se.	6	2.7	.....	5 ck	0	w.	.....	0	0	clear	W. H. Ray.
Campo, California	27.51	698.7	30.12	765.0	25	— 3.9	88	e.	2	0.9	.....	0	0	.....	.....	0.02	0.5	clear	W. H. Clendenon.
Camp Thomas, Arizona	27.23	691.6	30.01	762.2	42	5.6	52	calm	.....	.....	0	hz.	0	.....	.....	0	0	clear	J. T. Fitzgerald.
Cape Henry, Virginia	30.10	764.5	30.12	765.0	46	7.8	53	nw.	16	7.2	.....	0	0	.....	.....	0	0	clear	J. E. Lanouette.
Cape May, New Jersey	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. Bolten.
Castroville, Texas	29.08	738.6	29.91	759.7	69	20.6	87	se.	6	2.7	.....	.....	10 s	.....	s.	0.01	0.3	cloudy	T. Jones.
Cedar Keys, Florida	30.10	764.5	30.12	765.0	60	15.6	87	calm	0	0	.....	0	sk.	.....	.....	0	0	clear	F. W. Mixer.
Champaign, Illinois	29.20	741.7	30.06	763.5	43.2	6.2	65	e.	13	5.8	.....	0	4 s	.....	e.	0.01	0.3	fair	L. A. Welsh.
Charleston, S. Carolina	30.02	762.5	30.08	764.0	57	13.9	86	sw.	2	0.9	.....	0	fg.	.....	.....	0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.21	741.9	30.09	764.3	55.0	12.8	55	ne.	6	2.7	.....	0	sk.	.....	.....	0	0	clear	D. O. Donoghue.
Chattanooga, Tennessee	29.28	743.7	30.13	765.3	48.5	9.2	82	w	3	1.3	.....	1 c	fg.	calm	.....	0	0	clear	B. L. Goulding.
Cheyenne, Wyoming	23.73	602.7	29.91	759.7	31.2	— 0.4	54	nw.	28	12.5	.....	.....	10 s	.....	.....	0	0	cloudy	E. McGovern.
Chicago, Illinois	29.42	747.3	30.16	766.1	37.7	3.2	86	e.	15	6.7	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	J. Mitchell.
Chincoteague, Virginia	30.07	763.8	30.09	764.3	41	5.0	48	nw.	17	7.6	.....	0	0	.....	.....	0	0	clear	F. C. Pratz.
Cincinnati, Ohio	29.50	749.3	30.19	766.8	49	9.4	50	ne.	6	2.7	.....	0	6 s	.....	n.	0	0	fair	R. B. Watkins.
Cleveland, Ohio	29.54	750.3	30.32	770.1	31.6	— 0.2	87	ne.	10	4.5	.....	.....	10 s	.....	.....	0	0	cloudy	J. B. Newlin.
Coleman City, Texas	28.05	712.5	29.90	759.4	63	17.2	93	s.	4	1.8	.....	.....	10 s	.....	s.	0	0	cloudy	L. Dorman.
Columbus, Ohio	29.34	745.2	30.24	768.1	43	6.1	51	e.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	D. Cuthbertson.
Concho, Texas	27.96	710.2	29.93	760.2	58	14.4	86	e.	12	5.4	.....	0	0	.....	.....	0	0	clear	W. W. McConihe.
Davenport, Iowa	29.32	744.7	30.01	762.2	42	5.6	58	e.	16	7.2	.....	.....	10 s	.....	e.	0	0	cloudy	R. R. Martin.
Dayton, Washington T'y	28.38	720.8	30.19	766.8	30.3	— 0.9	84	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	H. Clifford.
Deadwood, Dakota	25.11	637.8	29.95	760.7	26	— 3.3	80	sw.	1	0.4	.....	.....	10 n	.....	.....	0.10	2.5	light snow	G. W. Scott.
Decatur, Texas	.....	.....	.....	.....	64	17.8	84	s.	12	5.4	.....	.....	10 s	.....	s.	0	0	cloudy	D. J. Carr.
Delaware Breakwater, Del.	30.05	763.3	30.07	763.8	39	3.9	73	nw.	28	12.5	.....	0	0	.....	.....	0	0	clear	A. Schneider.
Denison, Texas	29.04	737.6	29.86	758.4	64.5	18.1	90	s.	12	5.4	.....	0	5 s	.....	.....	0	0	fair	J. McGlone.
Denver, Colorado	24.46	621.3	29.90	759.4	42.0	5.6	28	nw.	28	12.5	.....	0	0	.....	.....	0	0	clear	F. M. Neal.
Des Moines, Iowa	28.86	733.0	29.82	757.4	41	5.0	73	se.	10	4.5	.....	10 cs	0	sw.	.....	0	0	cloudy	F. W. Conrad.
Detroit, Michigan	29.56	750.8	30.32	770.1	35.1	1.7	79	n.	11	4.9	.....	.....	10 s;k	.....	c;n.	0	0	cloudy	C. F. R. Wappenhans.
Dodge City, Kansas	27.00	685.8	29.72	754.9	48.5	9.2	57	w.	10	4.5	.....	0	0	.....	.....	0	0	clear	E. A. Thomas.
Dubuque, Iowa	29.31	744.5	30.06	763.5	36.8	2.7	72	e.	11	4.9	.....	9 k	0	se.	.....	0.02	0.5	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.46	748.3	30.20	767.1	32	0.0	78	ne.	24	10.7	.....	.....	10 s	.....	ne.	0	0	cloudy	N. B. Conger.
Eagle Pass, Texas	29.08	738.6	29.90	759.4	69.1	20.6	90	se.	3	1.3	.....	.....	10 s	.....	se.	0	0	cloudy	F. Belford.
Eagle Rock, Idaho	25.22	640.6	30.08	764.0	12	—11.1	83	nw.	20	8.9	.....	0	0	.....	.....	1.07	27.2	clear	J. M. Clifford.
Eastport, Maine	29.16	740.7	29.23	742.4	33.5	0.8	83	nw.	12	5.4	.....	.....	10 s	.....	nw.	inap.	inap.	cloudy	J. H. Melton.
El Paso, Texas	26.19	665.2	29.99	761.7	47	8.3	44	w.	9	4.0	.....	0	0	.....	.....	0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.54	750.3	30.30	769.6	35	1.7	79	n.	4	1.8	.....	6 k	0	n.	.....	0	0	fair	R. H. Paxton.
Escanaba, Michigan	29.64	752.8	30.35	770.9	28	— 2.2	88	ne.	7	3.1	.....	.....	10 s	.....	.....	0	0	cloudy	C. Dill.
Florence, Arizona	28.53	724.6	30.10	764.5	34.2	1.2	74	w.	2	0.9	.....	0	0	.....	.....	0	0	clear	R. R. Herman.
Fort Assinnaboine, Montana	27.41	696.2	30.42	772.7	9	—12.8	60	nw.	12	5.4	.....	.....	10 n	.....	nw.	0.05	1.3	light snow	B. O. Lenoir.
Fort Bennett, Dakota	28.08	713.2	29.78	756.4	37	2.8	100	n.	4	1.8	.....	.....	10 n	.....	.....	0.25	6.3	light rain	T. Gibson.
Fort Benton, Montana	27.48	698.0	30.46	773.7	9	—12.8	80	ne.	12	5.4	.....	.....	10 s	.....	calm	0.25	6.3	cloudy	S. Wheaton.
Fort Buford, Dakota	27.89	708.4	30.03	762.7	28	— 2.2	88	n.	4	1.8	.....	.....	10 n	.....	calm	0.06	1.5	light snow	A. H. Bell.
Fort Custer, Montana	26.86	682.2	30.19	766.8	22	— 5.6	73	nw.	24	10.7	.....	.....	10 n	.....	calm	0.01	0.3	light snow	V. Verge.
Fort Davis, Texas	25.05	636.3	29.93	760.2	49	9.4	86	s.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. Williams.
Fort Elliott, Texas	26.97	685.0	29.80	756.9	56	13.3	53	sw.	16	7.2	.....	3 c	0	sw.	.....	0	0	clear	W. J. Cundall.
Fort Gibson, Indian T'y	29.22	742.2	29.81	757.2	65.0	18.3	78	s.	16	7.2	.....	.....	10 s	.....	s.	0	0	cloudy	J. B. Campbell.
Fort Grant, Arizona	25.20	640.1	30.02	762.5	35	1.7	61	ne.	6	2.7	.....	0	0	.....	.....	0	0	clear	T. J. Macgowan.
Fort Griffin, Texas	28.62	726.9	29.97	761.2	62	16.7	87	n.	11	4.9	.....	0	0	.....	.....	0	0	clear	G. H. Hayne.
Fort Keogh, Montana	27.44	697.0	30.09	764.3	25	— 3.9	64	nw.	24	10.7	.....	.....	10 s	.....	nw.	c.01	0.3	cloudy	W. B. Stockman.
Fort Macon, North Carolina	30.09	764.3	30.10	764.5	52	11.1	52	ne.	17	7.6	.....	hz.	0	calm	.....	0	0	clear	L. Leonardy.
Fort McKavett, Texas	27.67	702.8	29.99	761.7	65.0	18.3	93	w.	9	4.0	.....	6 k	0	sw.	.....	0	0	fair	J. E. Thatcher.
Fort Missoula, Montana	26.83	681.5	30.21	767.3	24	— 4.4	88	n.	1	0.4	.....	.....	10 n	.....	.....	0.10	2.5	light snow	J. H. Jones.
Fort St. Michaels, Alaska	29.52	749.8	29.55	750.6	22	— 5.6	86	e.	12	5.4	.....	0	5 ks	.....	e.	0	0	fair	A. P. Leavitt.
Fort Shaw, Montana	26.62	676.1	30.42	772.7	8	—13.3	100	w.	10	4.5	.....	.....	10 n	.....	.....	0.08	2.0	light snow	A. L. Mathews.
Fort Sill, Indian Territory	28.54	724.9	29.83	757.7	59.5	15.3	88	s.	17	7.6	.....	.....	10 s	.....	s.	0	0	cloudy	T. Cleary.
Fort Stevenson, Dakota	27.96	710.2	29.94	760.5	28	— 2.2	88	e.	10	4.5	.....	.....	10 n	.....	calm	0.21	5.3	light snow	W. Burrows.
Fort Verde, Arizona	.....	.....	30.1	— 1.1	60	nw.	.....	.....	1	0	0	.....	.....	.....	.....	0	0	clear	D. Brooks.
Fort Washakie, Wyoming	24.29	617.0	.....	.....	24.1	— 4.4	76	nw.	8	3.6	.....	.....	3 k	0	.....	.....	0	0	clear	T. M. Ambler.
Fredericksburg, Texas	28.13	714.5	29.89	759.2	66	18.9	90	sw.	14	6.3	.....	.....	10 ks	.....	sw.	0	0	cloudy	H. S. Miles.
Galveston, Texas	29.95	760.7	29.99	761.7	69	20.6	100	s.	10	4.5	.....	.....	10 ks	.....	sw.	inap.	inap.	threatening	E. O'C. MacInerney.
Grand Haven, Michigan	29.56	750.8	30.26	768.6	34.0	1.1	78	e.	11	4.9	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	W. A. Reid.
Hatteras, North Carolina	30.06	763.5	30.08	764.0	51	10.6	52	ne.	32	14.3	.....	0	0	.....	.....	0	0	clear	R. M. Crawford.
Helena, Montana	25.96	659.4	30.33	770.4	14	—10.0	83	nw.	10	4.5	.....	.....	10 n	.....	nw.	0.02	0.5	light snow	N. C. Smith.
Henrietta, Texas	28.83	732.3	29.87	758.7	63	17.2	90	s.	6	2.7	.....	0	0	.....	.....	0	0	clear	J. W. Byram.
Huron, Dakota	28.24	717.3	29.72	754.9	36.8	2.7	85	e.	21	9.4	.....	.....	10 n	.....	.....	0.13	3.3	thund'rst'm	S. W. Glenn.
Indianapolis, Indiana	29.29	744.0	30.13	765.3	45	7.2	60	e.	4	1.8	.....	0	1 s	.....	calm	inap.	inap.	clear	O. Schutze.
Indianola, Texas	29.91	759.7	29.94	760.5	70.2	21.2	94	s.	7	3.1	.....	3 k	6 ks	s.	s.	0	0	cloudy	I. A. Reed.
Jacksboro, Texas	28.64	727.4	29.84	757.9	61	16.1	87	s.	12	5.4	.....	0	1 s	.....	.....	0	0	clear	J. P. Sherry.
Jacksonville, Florida	30.08	764.0	30.13	765.3	60	15.6	87	s.	1	0.4	.....	0	fg.	.....	.....	0	0	clear	J. W. Smith.
Keokuk, Iowa	29.22	742.2	29.91	759.7	44.0	6.7	83	e.	8	3.6	.....	.....	10 s	.....	.....	0	0	cloudy	F. Z. Gosewisch.
Key West, Florida	30.08	764.0	30.10	764.5	70.0	21.1	76	ne.	10	4.5	.....	0	1 k	.....	ne.	0	0	clear	L. M. Melbourne.
Kittyhawk, North Carolina	30.10	764.5	30.12	765.0	47.5	8.6	60	n.	30	13.4	.....	0	0	.....	.....	0	0	clear	E. A. Beals.
Knoxville, Tennessee	29.09	738.9	30.15	765.8	44.5	6.9	95	s.	2	0.9	.....	0	fg.	.....	.....	0	0	clear	J. A. Cody.
La Crosse, Wisconsin	29.24	742.7	30.06	763.5	37	2.8	82	e.	10	4.5	.....	.....	10 n	.....	.....	0.26	6.6	light rain	S. C. Emery.
La Mesilla, New Mexico	26.04	661.4	29.99	761.7	41.7	5.4	49	sw.	2	0.9	.....	2 c	0	sw.	.....	0	0	clear	N. D. Lane.
Leavenworth, Kansas	28.77	730.7	29.71	754.6	59	15.0	75	se.	14	6.3	.....	9 cs	0	sw.	.....	0	0	cloudy	A. W. Browne.
Lewiston, Idaho	29.40	746.7	30.26	768.6	27.6	— 2.4	68	calm	0	0	.....	.....	10 s	.....	calm	0.07	1.8	cloudy	W. Blake.
Little Rock, Arkansas	29.61	752.1	29.94	760.5	57	13.9	86	s.	3	1.3	.....	0	0	.....	.....	0	0	clear	M. F. Burrows.
Los Angeles, California	29.84	757.9	30.24	768.1	42.0	5.6	74	ne.	4	1.8	.....	0	0	.....	.....	0	0	clear	E. F. Kubel.
Louisville, Kentucky	29.49	749.0	30.08	764.0	48	8.9	63	ne.	5	2.2	.....	0	2 s;sk	.....	.....	0	0	clear	H. C. Smith.
Lynchburg, Virginia	29.42	747.3	30.14	765.5	48.5	9.2	56	calm	0	0	.....	0	0	.....	.....	0	0	clear	T. H. Breen.
Madison, Wisconsin	29.13	739.9	30.20	767.1	33	0.6	88	e.	16	7.2	.....	.....	10 n	.....	calm	0.05	1.3	sleeting	O. A. Shaw.
Marquette, Michigan	29.57	751.1	30.34	770.6	29	— 1.7	67	e.	10	4.5	.....	.....	10 s	.....	ca m	0	0	cloudy	I. Gilligan.
Mason, Texas	28.22	716.8	29.91	759.7	68	20.0	84	s.	6	2.7	.....	.....	10 s	.....	s.	.0	0	cloudy	A. M. Wilson.
Memphis, Tennessee	29.66	753.4	30.01	762.2	59	15.0	65	se.	1	0.4	.....	2 cs	hz.	sw.	.....	0	0	clear	D. T. Flannery.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind.		Clouds. Direction.		Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–01	0–10	0–10	Upper. From.	Lower. From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Milwaukee, Wisconsin	29.44	747.8	30.23	767.8	34	1.1	89	e.	16	7.2			10 s		e.	0.05	1.3	threatening.	W. Line.
Mobile, Alabama	30.06	763.5	30.10	764.5	57	13.9	93	calm	0	0			fg.			0	0	dense fog.	J. D. Paxton.
Montgomery, Alabama	29.86	758.4	30.10	764.5	53	11.7	86	calm	0	0		3 cs	fg.	nw.		0	0	clear.	J. B. McLaughlin.
Moorhead, Minnesota	28.87	733.3	29.95	760.7	36	2.2	89	e.	8	3.6			10 s		e.	0	0	cloudy	H. Bessant.
Morgantown, W. Virginia	29.20	741.7	30.26	768.6	32.5	0.3	83	calm	0	0		0	fg.			0	0	clear.	J. Sprigg, jr.
Mt. Washington, N. H.	23.00	584.2	29.52	749.8	6.0	—14.4	94	nw.	91	40.6			10n;fg		nw.	0.18	4.6	light snow.	J. G. Linsley.
Nashville, Tennessee	29.51	749.5	30.07	763.8	50.5	10.3	88	calm	0	0		0	fg.			0	0	dense fog.	L. A. Jesunofsky.
New Haven, Connecticut	29.67	753.6	29.79	756.7	39	3.9	38	nw.	12	5.4		0	0			0	0	clear	J. H. Sherman.
New London, Connecticut	29.67	753.6	29.72	754.9	39	3.9	73	nw.	12	5.4		0	0			0	0	clear.	J. G. Lynch.
New Orleans, Louisiana	29.99	761.7	30.05	763.3	66.5	19.2	86	s.	4	1.8			10 s		s.	0	0	cloudy	A. J. Armstrong.
Newport, Rhode Island	29.60	751.8	29.66	753.4	38.8	3.8	48	w.	30	13.4		0	0			inap.	inap.	clear.	W. McGillivray.
New River, N. Carolina					54	12.2	61	ne.			1	0	0			0	0	clear.	C. C. Corbin.
New Shoreham, Rhode I'd.	29.66	753.4	29.69	754.1	38.2	3.4	61	nw.	26	11.6		0	0			0	0	clear	W. Davis.
New York, New York	29.77	756.1	29.95	760.7	37	2.8	61	w.	18	8.0		0	0			0	0	clear.	E. B. Garriott.
Norfolk, Virginia	30.09	764.3	30.12	765.0	47	8.3	56	n.			2	0	0			0	0	clear.	J. T. Eiker.
North Platte, Nebraska	26.57	674.9	29.63	752.6	42.7	5.9	98	w.	9	4.0			10 s			0.02	0.5	cloudy	E. F. Brady.
Olympia, Washington T'y	30.24	768.1	30.28	769.1	34.0	1.1	88	s.	1	0.4			10 s		n.	0.02	0.5	cloudy	J. Dascomb.
Omaha, Nebraska	28.38	720.8	29.63	752.6	50.0	10.0	80	se.	12	5.4			10 s			0	0	cloudy.	A. Pollak.
Ooglaamie, Pt. Barrow, Alas.	30.00	762.0	30.02	762.5	— 4.5	—20.3	85	ne.	14	6.3			10 s			0	0	cloudy	P. H. Ray.
Oswego, New York	29.77	756.1	30.11	764.8	34.5	1.4	71	nw.	12	5.4		0	0			0	0	clear.	S. W. Beall.
Palestine, Texas	29.39	746.5	29.96	761.0	66	18.9	78	s.	12	5.4		0	6 ks			0	0	fair	L. M. Pindell.
Pensacola, Florida	30.08	764.0	30.11	764.8	54.0	12.2	100	s.	2	0.9			fg.			0	0	dense fog.	M. McGauran,
Philadelphia, Pa	29.96	761.0	30.06	763.5	40	4.4	57	nw.	9	4.0		0	0			0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	17.37	441.2	29.96	761.0	3.5	—15.8	100	sw.	16	7.2			10 s		sw.	0.01	0.3	cloudy	L. M. Dey.
Pioche, Nevada	24.08	611.6	30.22	767.6	19	— 7.2	61	n.	7	3.1		0	0			inap.	inap.	clear	C. K. Kitchel.
Pittsburg, Pennsylvania	29.41	747.0	30.26	768.6	33.6	0.9	75	n.	6	2.7		4 ck	0	nw.		0	0	fair.	J. H. Bryce.
Port Eads, Louisiana	30.07	763.8	30.08	764.0	62.3	16.8	100	se.	6	2.7		0	2s;hz			inap.	inap.	clear.	H. G. Christian.
Port Huron, Michigan	29.60	751.8	30.32	770.1	31.3	— 0.4	85	ne.	14	6.3			10 s			0	0	cloudy	W. O. Bailey.
Portland, Maine	29.43	747.5	29.48	748.8	37.0	2.8	51	nw.	20	8.9		5 c	0	nw.		0	0	fair	D. C. Murphy.
Portland, Oregon	30.18	766.6	30.25	768.3	35.2	1.8	89	calm	0	0			10 ks		sw.	0.25	6.3	cloudy.	M. L. Hearne.
Portsmouth, N. Carolina					48	8.9	71	ne.	28	12.5		0	0			0	0	clear	F. P. Chaffee.
Prescott, Arizona	24.75	628.6	30.09	764.3	24	— 4.4	76	s.	3	1.3		0	0			0	0	clear	J. Mc N. Wright.
Provincetown, Mass.	29.53	750.0	29.56	750.8	37.5	3.1	72	nw.	21	9.4		0	0			0	0	clear	P. T. Jenkins.
Punta Rassa, Florida	30.09	764.3	30.10	764.5	60	15.6	81	ne.	5	2.2		0	0			0	0	clear.	W. J. Evans.
Red Bluff, California	29.93	760.2	30.31	769.9	41.3	5.2	91	calm	0	0			10 s		w.	0	0	cloudy	J. M. Frantz.
Rio Grande City, Texas	29.66	753.4	29.90	759.4	74	23.3	82	calm	0	0		0	0			0	0	foggy	W. H. Taylor.
Rochester, New York	29.49	749.0	30.19	766.8	31	— 0.6	78	nw.	11	4.9			fg.		calm	0	0	clear.	A. T. Sherwood.
Roseburg, Oregon	29.65	753.1	30.21	767.3	34.2	1.2	94	nw.	16	7.2			10 n			0.13	3.3	light snow.	J. J. Nanry.
Sacramento, California	30.26	768.6	30.34	770.6	40.0	4.4	82	se.	6	2.7			8 s		sw.	0	0	cloudy	J. A. Barwick.
St. Louis, Missouri	29.34	745.2	29.97	761.2	52.4	11.3	82	se.	2	0.9		5 c	0			0	0	fair	J. H. Webber.
St. Paul, Minnesota	29.04	737.6	29.96	761.0	37.0	2.8	66	e.	28	12.5			10 s		e.	0	0	threatening.	O. S. M. Cone.
St. Vincent, Minnesota	29.14	740.1	30.08	764.0	29	— 1.7	88	e.	14	6.3			10 s		calm	0.02	0.5	cloudy	G. Kingsbury.
Salt Lake City, Utah	25.73	653.5	30.25	768.3	25	— 3.9	64	sw.	2	0.9		9 k	0	sw.		0.16	4.1	cloudy.	J. Craig.
San Antonio, Texas	29.18	741.2	29.90	759.4	67.7	19.8	93	s.	8	3.6			10 s		calm	0	0	cloudy	E. Lane.
San Diego, California	30.11	764.8	30.18	766.6	43.3	6.3	82	ne.	4	1.8		0	0			0	0	clear	A. C. Dobbins.
Sandusky, Ohio	29.58	751.3	30.30	769.6	34.8	1.6	69	ne.	18	8.0			10 s		ne.	0	0	cloudy	M. H. Perry.
Sandy Hook, New Jersey	29.92	760.0	29.96	761.0	39.0	3.9	65	nw.	25	11.2		0	0			0	0	clear	B. A. Blundon.
San Francisco, California	30.27	768.8	30.34	770.6	46	7.8	83	sw.	2	0.9			10 s		sw.	0	0	cloudy	N. Gorom.
Santa Fé, New Mexico	23.08	586.2	30.06	763.5	29	— 1.7	54	nw.	20	8.9		0	0			0	0	clear.	H. N. Jones.
Savannah, Georgia	30.00	762.0	30.09	764.3	58	14.4	72	w.	5	2.2		0	fg.			0	0	clear.	H. M. Ford.
Shreveport, Louisiana	29.71	754.6	29.96	761.0	65	18.3	100	s.	6	2.7		0	9 k		s.	0	0	cloudy	E. N. Meekins.
Silver City, New Mexico	24.19	614.4	29.97	761.2	42	5.6	54	nw.	6	2.7		0	0			0	0	clear	J. B. Wallace.
Sitka, Alaska	30.10	764.5	30.17	766.3	32.5	0.3	71	se.	14	6.3		2 k	0	se.		0	0	clear.	J. J. McLean.
Smithville, North Carolina	30.03	762.7	30.07	763.8	51	10.6	80	n.	4	1.8			sk.			0	0	dense smoke	J. C. Rickli.
Spokane Falls, Wash. Ter.	28.16	715.3	30.29	769.4	20	— 6.7	67	sw.	1	0.4		2 k	0			0.01	0.3	clear.	D. Moore.
Springfield, Illinois	29.26	743.2	29.98	761.5	48	8.9	67	se.	11	4.9		0	hz.			0	0	clear.	T. B. Jennings.
Springfield, Massachusetts	29.61	752.1	29.75	755.6	39.0	3.9	46	nw.	14	6.3		0	0			0	0	clear.	T. S. Outram.
Springfield, Mo.	28.42	721.9	29.98	761.5	57	13.9	83	s.	9	4.0		7 cs	2 s	w.		0	0	cloudy	J. B. Marbury.
Thatcher's Island, Mass.	29.52	749.8	29.58	751.3	36.5	2.5	70	nw.	35	15.6		5 k	0	nw.		0	0	fair	G. Liebmann.
Toledo, Ohio	29.57	751.1	30.30	769.6	34.8	1.6	86	ne.	14	6.3			10 ks		ne.	0	0	cloudy	A. Buell.
Tucson, Arizona	27.60	701.0	30.06	763.5	40	4.4	82	calm	0	0		0	0			0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.85	758.2	30.23	767.8	37.1	2.8	82	n.	3	1.3			10 s			0	0	cloudy	R. P. Sibley.
Uvalde, Texas	28.90	734.0	29.88	758.9	69	20.6	93	se.	5	2.2			10 s		se.	0	0	cloudy	E. C. Imlay.
Vicksburg, Mississippi	29.89	759.2	30.15	765.8	65	18.3	90	s.	4	1.8			10 s		calm	0	0	cloudy	T. J. Kenan.
Visalia, California	29.91	759.7	30.29	769.4	34	1.1	78	nw.	1	0.4		0	0			0 03	0.8	clear	J. T. Cochran.
Washington, D. C.	30.04	763.0	30.16	766.1	39	3.9	59	nw.	2	0.9		0	0			0	0	clear.	B. M. Purssell.
West Los Animas, Colorado	25.75	654.0	29.83	757.7	47	8.3	27	nw.	16	7.2		0	0			0	0	clear.	J. Grover.
Wickenburg, Arizona					31.0	— 0.6	78	nw.			1	0	0			c	0	clear.	H. A. Kremp.
Williamsport, Pa.	29.52	749.8	30.15	765.8	36	2.2	64	nw.	6	2.7		0	4 ks		nw.	0	0	fair.	B. F. Hough.
Wilmington, N. Carolina	30.02	762.5	30.08	764.0	56	13.3	62	e.	8	3.6		hz	0	calm		0	0	clear.	S. A. Haney.
Winnemucca, Nevada	25.72	653.3	30.22	767.6	24	— 4.4	76	sw.	8	3.6		0	8 ks		sw.	0	0	cloudy	J. R. Williams.
Yankton, Dakota	28.26	717.8	29.65	753.1	40	4.4	73	e.	12	5.4		0	8 ks			0	0	cloudy	J. H. Atfield.
Yuma, Arizona	29.94	760.5	30.09	764.3	48.0	8.9	42	n.	3	1.3		0	0			0	0	clear.	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	21.96	557.8			55.0	12.8	72	calm	0	0			10 n;s			0	0	foggy	Joaquin Gomez.
Bridgetown, Barbados, W. I.	30.03	762.7	30.04	763.0	77	25.0	90	e.				5 k	5 ks	e.	e.	0.40	10.2	cloudy	J. A. Racker.
Buenaventura, U. S. C.	29.95	760.7	29.97	761.2	77	25.0	90	s.	8	3.6		0	6 ks		s.	0	0	cloudy.	J. I. Plume.
Guadeloupe, W. I.	29.92	760.0	29.94	760.5	75	23.9	90	e.				0	3 ks			0	0	clear.	B. Bigar.
Havana, Cuba, W. I.	30.07	763.8	30.12	765.0	72	22.2	66	s.	1.2	0.5		0	2 ks		calm	0	0	fair.	A. Van Caneghem.
Kingston, Jamaica, W. I.	30.00	762.0	30.01	762.2	69.2	20.7	94	n.	1	0.4		0	4 s		e.	0.17	4.3		Robert Johnston.
Navassa	30.14	765.5	30.22	767.6	77	25.0	72	ne.	6.5	2.9		5 ck	8 s	e.	ne.	0	0		F. M. Everett.
Paramaribo, S. A.	30.04	763.0	30.04	763.0	77	25.0	91	e.			1		10 n		e.	0.660	16.8	rainy	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.44	747.8	29.90	759.4	78	25.6	86	calm			0		10 s		calm	0	0	foggy	Miss Flora A. Nichols.
Santiago de Cuba, W. I.							96	ne.			3	0	1 ks		ne.	0	0	clear.	Robert Mason.
Rivas	30.00	762.0	30.03	762.7	74	23.3	81	n.	1.2	0.5		3 c	0			0.26	6.6	fair.	
York Factory, B. A.	30.62	777.7	30.67	779.0	—15.0	—26.1	72	n.	8	3.6		0	0			0	0	clear.	J. Fortescue & W. Wood.

STATIONS AND VESSELS.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
BRITISH NAVAL.																		
H. M. S. Agincourt, N. 36° 07′, W. 5° 21′	30.06	763.5	56	13.3	87	w.			3		3	wnw.						d. clouds.
H. M. S. Alert, S. 3° 40′, E. 55° 08′	29.83	757.7	84.5	29.2	74	nnw.			3		6							d. clouds.
H. M. S. Alexandra, Malta, Mediterranean	30.08	764.0	64.5	18.1	70	s.			3		3	ssw.						d. clouds.
H. M. S. Bacchante, Port Said, Egypt	30.09	764.3	68	20.0	74	nne.			2		2	nne.						d. clouds.
H. M. S. Boadicea, S. 34° 11′, E. 18° 26′	30.03	762.7	70	21.1	73	w.			1–2		1	s.						blue sky.
H. M. S. Cleopatra, Suez Canal, Egypt	30.10	764.5	73	22.8	76	nne.			2		0							blue sky.
H. M. S. Comus, Singapore, Malay Pen.	29.89	759.2	80	26.7	95	ne.			2		4							d. clouds.
H. M. S. Diamond, S. 39° 37′, E. 67° 30′	30.09	764.3	59	15.0	76	wsw.			3–4		9	wsw.				3	wsw.	d. clouds.
H. M. S. Dido, N. 13° 05′, W. 59° 36′	30.07	763.8	77	25.0		calm			0		4	ene.						d. clouds.
H. M. Dock Yard, Bermuda, W. I.	29.88	758.9	65	18.3	83	wsw.			2–3		4	wsw.						d. clouds.
H. M. S. Druid, N. 18° 28′, W. 78° 12′			72.5	22.5	97	s.			1		2	s.						d. clouds.
H. M. S. Dwarf, S. 34° 35′, W. 58° 19′	30.01	762.2	71	21.7	67	nnw.			1–2		7					1–2	nnw	d. clouds.
H. M. S. Eclipse, S 15° 01′, E. 40° 45′	29.78	756.4	85	29.4		sse.			2		3							d. clouds.
H. M. S. Espiegle, S. 39° 45′, E. 40° 28′	29.91	759.7	65	18.3	?	n.			6		10					3	nne.	overcast.
H. M. S. Euryalus, N. 33° 13′, E. 25° 55′	30.16	766.1	64	17.8		e.			1		0							blue sky.
H. M. S. Fawn, Zebayer I'd., Red Sea	29.80	756.9	79.5	26.4	84	s.			4		2					4	s.	d. clouds.
H. M. S. Flying Fish, N. 34° 41′, E. 135° 12′	30.00	762.0	46	7.8	64	w.			1		6	nne.				3	e.	d. clouds.
H. M. S. Gannet, S. 28° 40′, W. 91° 15′	30.27	768.8	70	21.1	79	ese.			3–5		6					2	ssw.	showery.
H. M. S. Garnet, Keppel Sound, Falkland Is.	29.76	755.9	51	10.6	78	wnw.			4		9							squally.
H. M. S. Inconstant, S. 3° 00′, E. 106° 00′	29.93	760.2	79	26.1	86	ne.			2		7	e.						squally.
H. M. S. Iris, N. 33° 11′, E. 24° 29′	30.16	766.1	61	16.1	82	nne.			3–4		0					2	nne.	blue sky.
H. M. S. Iron Duke, N. 22° 16′ E. 114° 10′	30.20	767.1	55	12.8	80	nne.			1		10	ne.						overcast.
H. M. S. Liffey, Coquimbo	29.87	758.7	62	16.7		calm			0		6							d. clouds.
H. M. S. Magpie, N. 22° 20′, E. 114° 36′	30.20	767.1	57	13.9	81	ene.			2–3		10					3	e.	misty.
H. M. S. Malabar, N. 42° 22′, W. 9° 50′	29.98	761.5	52	11.1	79	nnw.			5		5	nnw.				6	wnw.	showery.
H. M. S. Rambler, Corisco Bay, Africa	29.84	757.9	83	28.3		ssw.			3		5	ssw.						threatening
H. M. S. Rocket, Vancouver Id., Brit. Col.	30.18	766.6	31	−0.6	89	nne.			1		7							d. clouds.
H. M. S. Sea Gull, S. 2° 13′, E. 40° 59′	29.25	742.9	81	27.2	82	ese.			2–3		2	ne.						d. clouds.
H. M. S. Thalia, N. 12° 18′, W. 26° 05′	29.99	761.7	73	22.8		nne.			5–6		0					2	ne	misty.
H. M. S. Triumph, S. 28° 42′, W. 91° 18′	30.31	769.9	79	26.1	90	ese.			4–6		7	se.				7	se.	squally.
H. M. S. Tyne, N. 5° 00′, E. 105° 55′	29.92	760.0	79	26.1	95	ne.			4		1	ne.				3	nne.	blue sky.
H. M. S. Woodlark, Bombay, India	29.86	758.4	75.5	24.2	69	wnw.			2–3		0							misty.
PORTUGUESE NAVAL.																		
Quanza, Boavista, Cape Verd Is.	30.01	762.2	76.3	24.6	79	ene.			4		4		sw.			3	ene.	d. clouds.
UNITED STATES NAVAL.																		
Navy Yard, Pensacola, Fla.	30.11	764.8	60	15.6	88	ne.	3	1.3			10			0	0			dense fog.
N. Yard, Portsmouth, N. H.	29.65	753.1	36	2.2	80	nw.	18	8.0			2			0	0			fair.
Naval Hospital, Yokohama, Japan	29.83	757.7	39	3.9	77	calm			0		1		w.	0.01	0.3			clear.
Adams, Callao, Peru	29.71	754.6	66	18.9	100	sse.			1–2		10					gr'd		foggy.
Alaska, Valparaiso, Chili	29.88	758.9	65	18.3	48	calm			0		0			0	0	sm'h		clear.
Alert, Labuan, Malaysia*	29.79	756.7	81	27.2	78	nne.			2		8		nne.	0	0	sm'h		fair.
Alliance, N. 20° 35′, W. 65° 57′	30.01	762.2	75	23.9	72	e.			2		5		e.	0	0	sm'h		fair.
Ashuelot, Tientsin, China	30.53	775.4	37	2.8	24	sse.			2		2		calm					clear.
Brooklyn, S. 52° 44′, W. 59° 19′	29.66	753.4	48	8.9	92	nw.	26	11.6			8		nw.	0	0	mod.	nw.	fair.
Colorado, New York, N. Y.	29.90	759.4	38	3.3	63	nw.	16	7.2			0			0	0			clear.
Enterprise, N. 30° 53′, W. 74° 15′*	30.08	764.0	68	20.0	79	w.			3		2					sm'h		clear.
Essex, Porto Grande, C. Verd Ids.	30.07	763.8	70	21.1	70	ne.			5		2		ne.			long	ne.	fair.
Franklin, Norfolk, Va.	30.08	764.0	48	8.9	43	nne.	12	5.4			2		n.	0	0			fair.
Galena, Villafranca, France	29.56	750.8	52	11.1	100	sw.			2		5		sw.			long	s.	fair.
Independence, Mare Island, Cal.	30.18	766.6	43	6.1	83	nnw.			2		5		nw.	0	0			fair.
Kearsarge, New Orleans, La.	30.04	763.0	67	19.4	89	se.			1		10		se.					cloudy.
Lackawana, Valparaiso, Chili	30.03	762.7	59	15.0	88	calm			0		2		n.					clear.
Lancaster, Smyrna, Turkey*	30.06	763.5	69	20.6	49	nw.			1–2		2		calm	0	0	sm'h		fair.
Marion, S. 33° 54′, E. 18° 24′*	29.78	756.4	67	19.4	79	nw.			3		2		calm	0	0	sm'h		clear.
Michigan, Erie, Pa.	30.21	767.3	34	1.1	90	nw.			2		8		n.					fair.
Minnesota, Newport, R. I.	29.61	752.1	41	5.0	57	wnw.	16	7.2			0							clear.
Monocacy, Yokohama, Japan	29.95	760.7	40	4.4	91	nw.			1		0							clear.
New Hampshire, Newport, R. I.	29.60	751.8	47	8.3	77	wnw.			6		0			0	0	sm'h	nw.	clear.
Nipsic, Vigo, Spain	29.99	761.7	54	12.2	67	ene.			3		8		e.			sm'h		fair.
Onward, Callao, Peru†	30.05	763.3	65	18.3	100	sse.			2		10		nnw.			long	w.	foggy.
Palos, Harlem Bay, China	30.26	768.6	54	12.2	100	nne.			1		10		calm					overcast.
Passaic, Washington, D. C.	30.15	765.8	41	5.0	91	nw.			1		0							clear.
Pensacola, S. 27° 02′, W. 70° 59′	29.97	761.2	61	16.1	88	wnw.			1		10			0	0	long	s.	cloudy.
Powhatan, Base Yarre, W. I.	30.06	763.5	77	25.0	73	ene.			1		2		e.					fair.
Quinnebaug, N. 37° 19′, E. 26° 27′	30.11	764.8	60	15.6	65	w.			3		2		calm			sm'h		clear.
Ranger, Acapulco, Mexico*	29.85	758.2	78	25.6	82	calm			0		0			0	0	sm'h		clear.
Richmond, Yokohama, Japan*	29.80	758.4	49	9.4	76	n			2		2			0	0			fair.
Shenandoah, S. 9° 50′, W. 30° 05′*	30.04	763.0	81	27.2	74	e.			3		2		e.			sm'h		fair.
St. Louis, League Island, Pa.	30.26	768.6	37	2.8	100	nw.					0			0	0			clear.
Swatara, Yokohama, Japan*	29.77	756.1	44	6.7	76	nw.	16	7.2	1		8		w.			sm'h		fair.
Tennessee, N. 33° 53′, W. 77° 15′	30.07	763.8	60	15.6	65	ene.					0			0	0	sm'h	nnw.	clear.
Vandalia, Havana, Cuba*†	30.23	767.8	63	17.2	94	ne.	13	5.8	1		2		calm					clear.
Wabash, Boston, Mass.	29.61	752.1	37	2.8	53	nw.					2		nw.	0	0			hazy.
Wachusetts, Sitka, Alaska	30.10	764.5	32	0.0		ne.	12	5.4	3		2		e.			sm'h		fair.
Wyoming, Port Royal, S. C.	30.07	763.8	57	13.9	81	sw.					0			0	0			hazy.
Yantic, N. 27° 29′, W. 86° 29′*	30.04	763.0	73	22.8	81	se.	2	0.9	1		2					sm'h		clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.			Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	Upper. o–10	Lower. o–10	Upper. From.	Lower. From.	Inch.	Mill.			
ALLAN LINE.																	
S. S. Circassian, N. 53° 05′, W. 25° 05′	30.07	763.8	48	8.9	92	sw.			4		8	w.	o	o	4	w.	d. clouds.
S. S. Nova Scotia, Halifax, N. S.	29.09	738.9	36	2.2		wsw.			2		10						cloudy.
S. S. Peruvian, Liverpool, Eng.*	29.17	740.9	42	5.6		sw.			4		6?	sw.	o	o			clear.
S. S. Prussian, Boston, Mass*	29.57	751.1	40	4.4		wnw.			3		0						clear.
S. S. Scandinavian, N. 55° 22′, W. 7° 44′*	29.43	747.5	48	8.9		w.			6		4	w.			cross	w.	showery.
S. S. Waldensian, N. 43° 55′, W. 50° 07′*	29.46	748.3	37	2.8		e.			4		2	e.	2 h'r	2 h'r	light	e.	misty.
AMERICAN STEAMSHIP COMPANY.																	
S. S. Illinois, Philadelphia, Penn.	29.88	758.9	43	6.1	92	nw.			5		2	nw.					clear.
S. S. Indiana, N. 39′, 52° W. 64° 38′†	29.40	746.7	44	6.7	?	w.			8		5?	nw.	h'vy	h'vy	r'gh	w.	cloudy ?.
S. S. Ohio, N. 50° 29′ W. 19° 58′*†	29.92	760.0	47	8.3	92	wnw.			3		9	nw.			mod.	nw.	cloudy.
ANCHOR LINE.																	
S. S. Galatia, N. 46° 56′, W. 26° 36′†	30.15	765.8				ssw.			3		9	s.	2 h'r	2 h'r	mod.	sw.	drizzling.
ATLAS LINE.																	
S. S. Alisa, N. 30° 23′ W. 74° 04′†	30.10	764.5	69	20.6	75	w.			2		0		o	o	sm'h		fair.
S. S. Alvo, Savanilla, U. S. C.	29.92	760.0	78	25.6		nne.			5		0		o	o			fine.
BOSTON AND HALIFAX.																	
S. S. Carroll, Off Boston, Mass†	29.61	752.1				nw.							o	o			fine.
BRITISH METEOROLOGICAL OFFICE.																	
S. S. Auckland, S. 16° 50′, W. 30° 14′	30.04	763.0	81	27.2		ese.			4		6						blue sky.
Baroda, S. 41° 17′, W. 9° 05′	29.90	759.4	58.5	14.7	66	wnw.			5		2						d. clouds.
Bk Caldew, S. 15° 30′, W. 27° 36′	30.06	763.5	80	26.7		ene.			6		4						d. clouds.
S. S. Cipero, N. 45° 03′, W. 18° 16′	30.22	767.6	52.1	11.2	86	nw.			2		10				2	n.	overcast.
Coppenamo, N. 28° 18′, W. 54° 59′	30.05	763.3	70	21.1	63	nw.			4		0						blue sky.
S. S. Gordon Castle, N. 12° 34′, E. 43° 43′	29.88	758.9	80	26.7	78	se.			4–6		0						misty.
S. Lochee, N. 4° 50′, W. 28° 33′	29.94	760.5	79	26.1	82	n.			4		4						misty.
Minho, S. 17° 46′ W. 38° 29′	30.07	763.8	81.5	27.5	78	ese.			2		5						d. clouds.
Naiad, N. 47° 14′, W. 16° 20′	30.14	765.5	51.3	10.7	93	nw.			5		6						showery.
Queen of Cambria, N. 6° 07′, E. 8° 39′	29.80	756.9	83	28.3	79	ne.			5		10						overcast.
BRISTOL CITY LINE.																	
S. S. Brooklyn City, N. 40° 45′, W. 60° 00′*†	29.55	750.6	48	8.9		wnw.			7		8	nw.	o	o	high	wnw.	cloudy.
CROMWELL LINE.																	
S. S. Hudson, N. 29° 02′ W. 80° 00′*†	30.15	765.8	71	21.7		ese.			1		1	e.	o	o	mod.	e.	fair.
GENERAL TRANS-ATLANTIC COMPANY.																	
S. S. Canada, N. 49° 49′, W. 5° 30′	29.80	756.9	48.2	9.0		nw.			2		0		o	o			clear.
HAMBURG AMERICAN PACKET COMPANY.																	
S. S. Gellert, N. 42° 51′, W. 48° 01′			51	10.6		w.			4		8	nw.	4 h'r	4 h'r	mod.	sw.	cloudy.
S. S. Lessing, N. 49° 09′, W. 27° 15′*†	30.14	765.5	50	10.0		nw.			4		8	nw.	o	o	long	nw.	cloudy.
JOHNSTON LINE.																	
S. S. Thanemore, N. 49° 22′, W. 17° 52′	30.02	762.5				nw.			5		10?	n.	driz'l	driz'l		n.	clear.?
LEYLAND LINE.																	
S. S. Iberian, N. 51° 29′ W 14° 34						wnw.			3		3	nw.	2 h'r	2 h'r	light	nw.	
MALLORY LINE.																	
S. S. Colorado, N. 24° 19′ W. 82° 25′†	30.13	765.3	68	20.0		ne.			3		1	ne.	o	o	mod.	ne.	clear.
MERCHANTS' EXPRESS LINE.																	
S. S. Freja, N. 40° 37′, W. 72° 02′*†	29.70	754.4	41	5.0	82	w.			6			w.	o	o	short	w.	
MERCHANT STEAMSHIP COMPANY.																	
S. S. Glenfyne, N. 31° 30′ W. 66° 30′						w.			6		0				mod.	w.	clear.
NATIONAL LINE.																	
S. S. Erin, N. 49° 51′ W. 3° 55′	29.76	755.9	50	10.0		w.			2		0		o	o	sm'h		very fine.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																	
S. S. Niagara, N. 29° 56′ W. 79° 36′*†	30.24	768.1	70	21.1		w.			2		0		o	o	mod.	ne.	clear..
NEW YORK HERALD WEATHER SERVICE.																	
S. S. Alvena, N 27° 09′ W 73° 48′*†	30.08	764.0	70	21.1		calm			0							n.	clear.
S. S. New York, N. 27° 38′ W. 87° 10°*†	30.12	765.0	74	23.3		calm			0						sm'h		clear.
S. S. P. Caland, N. 40° 03′ W. 63° 13′	29.46	748.3	48.2	9.0		wnw.			7						7	wnw.	
NORTH GERMAN LLOYD.																	
S. S. Hermann, N. 47° 50′, W. 37° 28′*†	29.65	753.1	51.8	11.0		wsw.			6		2	sw.	6 h'r	6 h'r	h'vy	ssw.	clearing.
S. S. Hohenzollern, S. 80 30′, W. 34° 03′*	29.92	760.0	32.6	28.1		se.			3–4		2	ese.	o	o	3	ese.	clear.
S. S. Kronprinz F. Wilhelm, N. 50° 04′ W. 3° 28′	29.75	755.6	50.0	10.0		nw.			2		2	w.	o	o	2	nw.	clear.
S. S. Oder, N. 49° 34′, W. 23° 50′*	30.07	763.8	54.5	12.5		sw.			4		5	w.	rain	rain	mod.	w.	misty.
S. S. Ohio, N. 46° 05′, W. 35° 46′	29.84	757.9				sw.			6		10	sw.			mod.	sw.	heavy rain..
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																	
S. S. Belgic, Hong Kong, China†	30.15	765.8	55	12.8	87	ne.			1		5	ne.	o	o			fair.
S. S. Gaelic, N. 35° 44′, E. 174° 13′†	30.07	763.8	58	14.4	88	se.			3		9	se.			mod.	w.	cloudy.
OCEAN STEAMSHIP COMPANY.																	
S. S. City of Augusta, Savannah, Ga.†	29.96	761.0				w.			1		0		o	o			smoky.
S. S. Seminole, Boston, Mass†	29.62	752.3	40	4.4		nw.			6		8	nnw.	o	o			cloudy.
OREGON IMPROVEMENT COMPANY.																	
S. S. Mississippi, N. 40° 17′, W. 124° 34′†	30.37	771.4	45	7.2	92	sse.			4		10	sse.			mod.	wnw.	light rain.
OREGON RAILWAY AND NAVIGATION COMPANY.																	
S. S. Oregon, San Francisco, Calf†	30.29	769.4	45	7.2	84	nw.			1		8	nw.					threatening.
PACIFIC COAST STEAMSHIP COMPANY.																	
S. S. Ancon, N 36° 09′ W. 121° 50′†	30.29	769.4	48	8.9	70	nw.			6		2	nw.			mod.	wnw.	fair.
S. S. G. W. Elder, Victoria, B. C†	30.33	770.4	35	1.7		ne.			2		4	ne.	o	o			clear.
S. S. Idaho, N. 42° 10′ W. 124° 38′†	30.34	770.6	48	8.9	70	nw.			6		2	n.			r'gh	nnw.	clear.
S. S. Orizaba, N. 32° 40′ W. 117° 11′†	30.12	765.0	52	11.1	40	nw.			3			nw.	o	o	light	nw.	clear.
S. S. State of California, N. 42° 30′ W. 124° 40,†	30.19	766.8	43	6.1	92	sw.			5		10	sw.	6 h'r	6 h'r	h'vy	sw.	squally.
S. S. Victoria, San Francisco, Calf	30.33	770.4	46	7.8	84	sw.			1		10						cloudy.
PACIFIC MAIL STEAM SHIP COMPANY.																	
S. S. Australia, S. 15° 20′, W. 171° 35′	29.88	758.9	78	25.6	91	sw.			1		8	se.	4 h'r	4 h'r	sm'h		cloudy.
S. S. City of Rio de Janeiro, N. 12° 89′, W. 88° 53′†	30.10	764.5	79	26.1	74	e.			3		5	e.	o	o	long	ne.	fair.
S. S. City of Sidney, Sydney, N. S. W†	29.98	761.5	71	21.7	80	ne.			4		10	ne.	o	o	sm'h		cloudy.
S. S. City of Tokio, N. 27° 47′, E. 125° 27′†	30.28	769.1	51	10.6	65	nne.			6		8	ne.	¼h'r	¼h'r	r'gh	nne.	drizzling.
S. S. Colima, N. 7° 09′ W. 80° 40′†	29.87	758.7	84	28.9	79	ne.			3		6	ne.	o	o	small	ne.	fair.
S. S. Colon, N. 31° 40′, W. 74° 09′†	30.12	765.0	70	21.1		w.			4		0				mod.	w.	clear.
S. S. Granada, N. 30° 57′, W. 116° 23′†	30.09	764.3	54	12.2	93	nw.			5		2	nw.	o	o	large	wnw.	clear.
S. S. Zelandia, S. 21° 16′, W. 173° 53′	29.93	760.2	74	23.3	82	ene.			3		5?	ne.			mod.	e.	clear.?
QUEBEC STEAM SHIP COMPANY.																	
S. S. Muriel, St. Lucia, W. I.						ne.			3		0		o	o	sm'h		fair.
S. S. Bermuda, Arroyo, W. I†	30.13	765.3	78	25.6		ene.			2		2	ene.	o	o			fine.
RED STAR LINE.																	
S. S Belgenland, N. 47° 27′ W. 28° 00′†	30.12	765.0	53	11.7	90	s.			6		10	s.	8 h'r	8 h'r	mod.	sw.	hazy.
S. S. Rhynland, Antwerp, Belgium	29.60	751.8	53	11.7	73	nw.			3		7	nw.	o.1	3.			cloudy.
S. S. Switzerland, N. 45° 45′, W. 39° 50′†	29.81	757.2				wsw.			8		8	wsw.	5 h'r	h'vy	h'vy	wsw.	cloudy.
S. S. Vaderland, Antwerp, Belgium*†	29.40	746.7	42	5.6		e.			2		2?	ene.	o	o			cloudy.?
S. S. Waesland, Jersey City, N. J.	30.10	764.5	50	10.0		nw.			4		2	w.	o	o			clear.
ROTTERDAM LINE.																	
S. S. Schiedam, N. 47° 17′, W. 35° 54′*	29.69	754.1	57.4	14.1	91	ssw.			6		6	sw.	2 h'r	light	h'vy	sw.	fair.
S. S. W. A. Scholten, Rotterdam, Holland*	29.40	746.7	52.3	11.3	93	nw.			9		4	sw.	o	o			
THINGVALLA LINE.																	
S. S. Thingvalla, Brooklyn, N. Y.†	29.93	760.2	37.4	3.0		nnw.			2		2	nnw.	o	o			clear.
WHITE STAR LINE.																	
S. S. Celtic, Liverpool, Eng*†	29.92	760.0	47	8.3	85	wsw.			4		8	w.	o	o			cloudy.
S. S. Republic, N. 49° 18′, W. 28° 34′*	29.98	761.5	55	12.8	100	s.			6		8	s.	shr's	sh'rs	r'gh	s.	hazy.
S. S Salerno, Boston Mass†	29.60	751.8				nw.			7		2	nw.					clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch	Mill.			
MISCELLANEOUS.																		
Schr. Addie Fuller, Cedar Keys, Florida†	30.20	767.1	61	16.1	94	e.			2	0	sk			0	0			clear.
Bk. Adelaide, N. 5° 23′, W. 31° 08′*†	29.99	761.7	79	26.1		ne.			5		2		ene.	0	0	mod.	ne.	hazy.
Bk. Alpha, N. 25° 20′, W. 70° 40′*†	30.12	765.0	72	22.2		ne.			3		3		nne.	0	0	mod.	n.	fair.
Schr. Annie M. Law, N. 44° 19′ W. 48° 10′*†	30.07?	765.8?	56	13.3	81	sw.			2		9		ssw.	1 h'r	light	mod.	nw.	threatening.
Schr. Annie R. Lewis, N. 34° 27′, W. 72° 01′*†	29.98	761.5	64	17.8		nnw.			4		0			0	0	r'gh	n.	clear.
Schr. Annie M. Smull, N. 4° 44′. W. 27° 54′*†	29.90	759.4	82	27.8		ne.					2		ne.	0	0	mod.	ne.	clear.
Bk. Bergenseren, N. 34° 16′, W. 57° 11′†	29.63	752.6				w.			9				w.	light	light	8	w.	threatening.
Bk. Celestiau, N. 33° 35′ W. 46° 05′*†	29.96	761.0				sse.			4		9		ssw.	rain	rain	mod.	sse.	rainy.
S. E. J. Spicer, off the Highlands, N. Y*†	29.85	758.2				nw.			6					0	0	sm'h		clear.
Bk. E. L. Pettingill, S. 48° 40′ W. 79° 30′†	30.10	764.5				nw.			2		10		wnw.	mist	mist	r'gh	w.	cloudy.
S. Enoch Train, Bremerhaven, Germany*	29.51	749.5				se.			1		10		s.	sh'rs	sh'rs			overcast.
U. S. F. C. S. Fish Hawk, Cherrystone Inlet, Va†	30.18	766.6	47	8.3	77	nw.			4		1		nw.	0	0			clear.
Bk. Freya, N. 24° 23′, W. 65° 57′			68	20.0		ne.			1		2		ne.	0	0	sm'h		fair.
S. Grecian, N. 36° 12′, W. 12° 29′*†	30.10	764.5	58	14.4		nw.			5		8		nw.	0	0	long	nw.	fine.
Bk. Geo. Booth, S. 27° 44′, W. 28° 20′*†	29.95	760.7				e.			2					0	0	sm'h		clear.
Bk. Granville, N. 5° 37′, W. 29° 02′*†	30.14	765.5				ne.			3				ne.	0	0	sm'h	ne.	cloudy.
Schr. Henry Denison, N. 23° 27′, W. 62° 57′†	30.08	764.0				var.			0–2		2?		sw.	8 h'r	light	long	nw.	cloudy.?
Bk. Johanne Auguste, S. 32° 09′. E. 81° 51′*†	29.95	760.7				e.			5		4		e.	5 h'r	light	r'gh	ene.	showery.
Bk. Kate Cann, N. 40° ′48 W. 51° 49′						sw.			2		10		wsw.	4 h'r	4 h'r	r'gh	cross	light rain.
Brt. Kryolith, N. 36° 38′, W. 53° 01′*†	29.50	749.3				wsw.			7		2		wsw.	rain	rain	hv'y	cross	threatening.
S. S. Lamperts, N. 36° 42′, W. 67° 02′*	29.67	753.6	57.0	13.9	69	wnw.			8		7					4		gloomy.
Schr. Maggie Abbott, N. 35°, W. 73°*†	29.85	758.2				nnw.			4				w.	0	0	cross	sw.	clear.
S. S. Malabar, Baltimore, Md*†	30.12	765.0				nw.			2		0			0	0			fine.
Bk. Pawashick, N. 16° 13′, W. 54° 15′*†	30.30	769.6	75	23.9	81	e.			3		2		e.			sm'h	e.	fine.
Bk. Peppina, N. 40° 45′, E. 18° 41′†	29.96	761.0	59	15.0	88	ssw.			4		5?		w.			mod.	sw.	cloudy?
Bk. Pilgrim, S. 43° 10′, E. 13° 00′*†	29.75	755.6				nw.			3		fg		nw.	0	0	long	wnw.	foggy.
Schr. S. B. Hubbard, Jacksonville, Florida*†	30.11	764.8	69	20.6		calm			0		0			0	0			fine.
Bk. Stella, S. 44° 16′, W. 52° 13′*	29.70	754.4	59.0	15.0	94	s.			5		6		s.	0	0	r'gh	sw.	squally.
Bk. Sunbeam, N. 21° 30′, W. 53° 21′*†	30.16	766.1	78	25.6	82	e.			1		0			0	0	mod.	e.	clear.
S. Wm. Woodbury, Bremerhaven, Germany*†	29.60	751.8	44	6.7	84	sw.			4				sw.					

Data, as appearing in the International Bulletin of similar date.

Isobars in *black* exhibit atmospheric pressure at sea-level, and are charted from data as reported by the several observers.

Isotherms in *red* exhibit temperature of air, similarly charted.

Broken or dotted lines indicate that the lines so broken are doubtful.

Arrows, when charted, fly with the wind and exhibit wind-direction and force.

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W. B. Hazen

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

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INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON MARCH 5, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
ALGERIAN.																			
Nemours	.....	.....	30.15	765.7	62.2	16.8	81	nw.	.....	.....	3	.....	0	.....	.....	0	0	clear	Moiroud.
Algiers	.....	.....	30.06	763.6	52.9	11.6	88	nw.	.....	.....	1	.....	10	.....	.....	0.787	20.0	covered	Nicolas.
La Calle	.....	.....	29.81	757.2	58.6	14.8	78	nw.	.....	.....	1	.....	5	.....	.....	0	0	cloudy	Fonfrède.
Tunis	.....	.....	29.70	754.4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.15	765.9	45.0	7.2	74	nw.	.....	.....	3	.....	4	.....	.....	0.224	5.7	cloudy	Dumas.
Tebessa	.....	.....	.....	.....	50.7	10.4	31	nw.	.....	.....	5	.....	7	.....	.....	0	0	very cloudy.	Derché.
Geriville	.....	.....	.....	.....	38.5	3.6	67	nnw.	.....	.....	4	.....	9	.....	.....	0.020	0.5	covered	Louchamp.
Laghouat	.....	.....	30.10	764.6	50.7	10.4	56	w.	.....	.....	4	.....	1	.....	.....	0	0	very fair	Herbin.
Biskra	.....	.....	29.92	759.9	55.4	13.0	62	nw.	.....	.....	1	.....	10	.....	.....	0.047	1.2	covered	Malau.
AUSTRALIAN.																			
Melbourne, Victoria	29.98	761.5	30.07	763.8	62.2	16.8	66	ese.	1	0.4	.....	.....	0	.....	.....	0	0	fine	R. L. J. Ellery.
AUSTRO-HUNGARIAN.																			
Agram	29.41	747.0	29.95	760.8	59.0	15.0	38	sw.	.....	.....	3	.....	0	.....	.....	0	0	.....	Prof. Ivan Stozir
Cracow, I. R Observatory	29.06	738.0	29.83	757.7	46.8	8.2	57	sw.	13.0	5.8	.....	.....	8	.....	.....	0.016	0.4	.....	Dr. Wierzbiski.
Eperies	28.90	734.0	29.78	756.5	48.2	9.0	81	calm	.....	.....	0	0	7 8	.....	e.	0	0	.....	Julius Mikolik.
Gratz	28.62	727.0	29.85	758.3	56.7	13.7	51	e.	.....	.....	1	.....	5	.....	.....	0	0	.....	Andreas Rospini.
Hermannstadt	28.49	723.7	29.91	759.7	57.4	14.1	46	nw.	.....	.....	3	.....	8	.....	.....	0	0	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.65	727.6	30.02	762.6	40.6	4.8	87	wnw.	.....	.....	2	.....	10	.....	.....	0.031	0.8	gloomy	The Staff.
Lemberg	28.74	729.9	29.73	755.2	45.3	7.4	74	nw.	.....	.....	2	.....	10	.....	.....	0	0	.....	Dr. T. Stanecki.
Pola	29.94	760.5	30.06	763.4	51.1	10.6	83	w.	.....	.....	1	.....	3	.....	.....	0.039	1.0	.....	I. R.Hydrographic Office.
Szathmar	29.35	745.4	29.81	757.2	55.2	12.9	56	sw.	.....	.....	4	.....	3	.....	.....	0	0	.....	Joseph Midlinszky, S. J.
Szegedin	29.64	752.9	29.92	759.9	59.9	15.5	58	sw.	.....	.....	3	.....	3	.....	.....	0	0	.....	Karl Stancel.
Trieste	29.58	751.4	29.69	754.0	48.9	9.4	92	calm	.....	.....	0	.....	10	.....	.....	0	0	.....	Rieder.
Vienna	29.25	742.9	29.98	761.4	47.1	8.4	59	w.	.....	.....	5	.....	5	.....	.....	0	0	.....	I. R. Central Met. Obs'y.
BRITISH.																			
Aberdeen	29.00	736.6	29.09	738.9	46.7	8.2	74	sw.	24	10.7	.....	.....	7	.....	.....	0.035	0.9	squally	W. Boswell.
Armagh, Observatory	29.11	739.4	29.35	745.5	49 4	9.7	85	ssw.	25	11.2	.....	.....	.....	.....	.....	.....	.....	.....	S. Call.
Bidston, Liverpool Obs'y	.....	.....	29.52	749.8	49.0	9.4	77	sw.	36	16.1	.....	.....	10	.....	.....	.....	.....	overcast	John Hartnup.
Bolton, Sharples	28.97	735.8	29.51	749.5	46.8	8.2	81	sw.	12	5.4	.....	.....	10	.....	.....	.....	.....	overcast	Thomas Mackereth.
Bradford, Yorkshire	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.14	3.6	.....	[A.S. J.McLandsborough, F. R
Bridgetown, Barbadoes	29.97	761.2	30.00	762.0	81.0	27.2	58	ne.	.....	.....	3	.....	3	.....	.....	.....	.....	d. clouds	Pvt. J. Surgenor, A. H.C.
Cardington	.....	.....	29.65	753.1	52.0	11.1	72	sw.	.....	.....	2.0	.....	6	.....	.....	.....	.....	d clouds	John McLaren.
Chatham, School M. E	29.55	750.6	29.68	753.9	49.9	9.9	77	sw.	.....	.....	2	.....	10	.....	.....	.....	.....	gloomy	Lance Opl. G.A. Pickles.
Falmouth, Observatory	29.59	751.6	29.82	757 4	51.0	10.6	75	sw.	.....	.....	6	.....	9	.....	.....	.....	.....	overcast	The Staff.
Fort Napier, Natal	27.70	703.6	29.92	760.0	78.2	25.7	69	calm	.....	.....	0	.....	5	.....	.....	.....	.....	.....	Pvt. E. K Annis, A. H.C.
Free Town, Sierra Leone	29.63	752.6	29.86	758.4	89.0	31.7	63	w.	.....	.....	1	.....	3	.....	.....	.....	.....	d. clouds	Sergt. John Robinson.
Galway, Queen's College	.....	.....	.....	.....	.....	.....	.....	n.	.....	.....	3	.....	10	.....	.....	0.28	7.1	raining	J. O'Donaghue.
Gibraltar, Mediterranean	30.11	764.8	30.17	766.3	67.5	19.7	77	sw.	.....	.....	3	.....	0	.....	.....	.....	.....	blue sky	Opl. O. Baldwin.
Glasgow, Observatory	28.97	735.8	29.17	740.9	45.9	7.7	92	s.	.....	.....	6	.....	10	.....	.....	.....	.....	raining	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.59	751.6	29.76	755.9	48.9	9.4	77	sw.	.....	.....	4	.....	10	.....	.....	.....	.....	overcast	The Staff.
Guernsey	29.60	751.8	29.90	759.4	48.9	9.4	97	wsw.	.....	.....	2	.....	10	.....	.....	.....	.....	overcast	A. Collenette, F. M. S.
Kew, Observatory	29.73	755.1	29.76	755.9	48.8	9.3	72	sw.	20	8.9	.....	.....	9	.....	.....	.....	.....	threatening.	The Staff.
Leicester, Museum	29.37	746.0	29.63	752.6	44.0	6.7	67	sw.	.....	.....	1	.....	10	.....	.....	.....	.....	overcast	J. C. Smith.
Malta, Mediterranean	29.84	757.9	29.91	759.7	61.0	16.1	82	se.	.....	.....	3	.....	6	.....	.....	.....	.....	d. clouds	I. H. Whysall.
Nassau, Bahamas	30.16	766.1	30.20	767.1	71.2	21.8	70	ne.	.....	.....	3	.....	4	.....	.....	.....	.....	d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.11	739.4	29.63	752.6	48.0	8.9	77	sw.	.....	.....	3	.....	9	.....	.....	.....	.....	d. clouds	John Mac Email.
Oxford, Radcliffe Obs'y	29.49	749.0	29.72	754.9	49.3	9.6	71	sw.	.....	.....	5	.....	10	.....	.....	.....	.....	overcast	The Staff.
Plymouth	29.74	755.4	29.81	757.2	50.8	10.4	85	wsw.	.....	.....	2	.....	10	.....	.....	.....	.....	overcast	John Merrifield.
Sandwick Manse, Orkneys	.....	.....	28.87	733.3	45.8	7.7	92	s.	18	8.0	.....	.....	10	.....	.....	.....	.....	raining	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	30.05	763.3	30.11	764.8	60.0	15.6	55	sw.	.....	.....	1	.....	7	.....	.....	.....	.....	blue sky	W. H. Lyne.
Sheffield	29.30	744.2	29.57	751.1	50.4	10.2	71	sw.	.....	.....	3	.....	2	.....	.....	0.10	2 5	d. clouds	W. F. Cooper.
Silloth Rectory	29.32	744.7	29.35	745.5	44.8	7.1	92	sw.	.....	.....	6	.....	10	.....	.....	0.165	4.2	overcast	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	29.51	749.5	47.2	8.4	75	wsw.	25	11.2	.....	.....	8	.....	.....	.....	.....	d. clouds	R. S. J. Perry.
Stratfield Turgiss	29.53	750.0	29.74	755.4	50.7	10.4	75	w.	.....	.....	3	.....	9	.....	.....	.....	.....	squally	Rev.C.H.Griffiths, F.M.S.
Truro, Royal Institution	29.72	754.9	29.78	756.4	54	12.2	86	sw.	.....	.....	0	.....	10	.....	.....	.....	.....	raining	W. Newcombe.
Valencia, Observatory	29.50	749.3	29.53	750.0	51.7	10.9	86	sw.	39	17.4	.....	.....	10	.....	.....	blank	blank	misty	The Met'g'l Office.
CANADIAN.																			
Charlottetown, P. E. Island	29.83	757.7	29.87	758.7	28	— 2.2	88	n.	27	12.1	.....	.....	10 n	.....	nne.	0.750	19.0	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	29.96	761.0	30.03	762.7	28	— 2.2	96	n.	2	0.9	.....	2 k	8 ks	n.	n.	0.54	13.7	cloudy	G. A. Blair.
Father Point, Quebec*	30.16	766.1	30.18	766.6	21	— 6.1	91	ne.	3	1.3	.....	0	5 8	.....	calm	0.40	10.2	.....	J. McWilliams.
Fort Garry, Manitoba*	29.19	741.4	30.11	764.8	5	—15.0	100	n.	36	16.1	.....	.....	10 n	.....	.....	0.212	5.4	light snow	James Stewart.
Halifax, N. S*	29.66	753.4	29.80	756.9	33	0.6	80	n.	16	7.2	.....	8 k	0	n.	.....	inap.	inap.	cloudy	A. Allison.
Kingston, Ontario*	29.82	757.4	30.17	766.3	29	— 1.7	64	ne.	5	2.2	.....	8 cs	0	w.	.....	0	0	cloudy	A. P. Knight, M. A.
Montreal, Quebec*	29.97	761.2	30.18	766.6	27	— 2.8	61	ne.	12	5.4	.....	0	0	.....	.....	inap.	inap.	clear	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.40	746.7	30.12	765.0	33	0.6	88	se.	7	3.1	.....	.....	10 n	.....	se.	0	0	cloudy	Rev. R. Mosley.
Port Dover, Ontario	29.32	744.7	30.04	763.0	36	2.2	100	ne.	5	2.2	.....	.....	10 n	.....	s.	0	0	threatening.	H. Morgan.
Port Stanley, Ontario	29.30	744.2	29.97	761.2	35	1.7	69	e.	20	8.9	.....	.....	10 n	.....	s.	0.08	2.0	light rain	M. Payne.
Quebec, Quebec*	29.84	757.9	30.18	766.6	24	— 4.4	88	sw.	.....	.....	1	0	2 8	.....	w.	inap.	inap.	fair	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.70	754.4	30.19	766.8	25	— 3.9	88	calm	0	0	.....	.....	10 8	.....	sw.	0	0	cloudy	W. H. McIntyre.
Saugeen, Ontario*	29.25	742.9	29.98	761.5	35	1.7	75	se.	40	17.9	.....	.....	10 8	.....	.....	inap.	inap.	sleeting	
St. Andrews, N. B	29.93	760.2	29.98	761.5	32	0.0	79	n.	7	3.1	.....	.....	10 n	.....	.....	0	0	cloudy	
Sydney, C. B*	29.63	752.6	29.70	754.4	30	— 1.1	96	n	25	11.2	.....	.....	10 n	.....	.....	1.67	42.4	light snow	G. Murdock, C. E.
Toronto, Ontario*	29.71	754.6	30.11	764.8	35	1.7	89	e.	9	4.0	.....	5 ck	5 8	w.	w.	0	0	cloudy	Magnetic Observatory.
Yarmouth, N. S*	29.82	757.4	29.89	759.2	32	0.0	88	ne.	10	4.5	.....	5 k	5 8	w.	ne.	0.01	0.3	cloudy	Lt. F. E. Wilmot, R. N.
Sub-series.																			
St. Johns, Newfoundland	29.36	745.7	29.61	752.1	32	0.0	100	ne.	3	1.3	.....	.....	10	.....	.....	inap.	inap.	snowing	John Delany.
CAPE COLONY.																			
Cape St. Francis Lt. House	30.00	762.0	30.03	762.7	70.5	21.4	81	se.	8.2	3.7	.....	0	0	.....	.....	0	0	blue sky	John Duthie.
Cape Town, C. G. H. Obs'y	30.02	762.5	30.06	763.5	97.0	30.6	37	nnw.	13	5.8	.....	0	0	.....	.....	0	0	.....	The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
CHINESE (*Sub-series*).																			
Hankow	30.39	771.9	30.68	779.3	43.4	6.3	88	wnw.			2		3			0.05	1.3		N. Titoushkin.
Zi-Ka-Wei, near Shanghai.	30.45	773.4	30.48	774.1	36.5	2.5	68	n.	3.8	1.7			10 k		n.	0	0	covered	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	29.49	749.0	29.54	750.2	45.3	7.4	66	wnw.	29	13			7						Oversergent Fischer.
Fanöe	29.50	749.3	29.52	749.8	43.2	6.2	90	wsw.			4		10						Overloerer Lauridsen.
Godthaab, Greenland	29.52	749.9	29.57	751.0	15.4	— 9.2		wnw.			2		10					snowing	S. Kleinschmidt.
Stykkisholm, Iceland	29.22	742.2	29.26	743.3	9.1	—12.7	88	ne.			7		10					snowing	A. O. Thorlacius.
Thorshavn	28.73	729.8	28.77	730.7	32.4	0.2	90	ne.	20	9			10					snowing	Overloerer Bergh.
Vestervig	29.28	743.7	29.37	746.0	42.3	5.7	93	wsw.			6		5						Loerer Oesterbol.
FRENCH.																			
Agen, Normal School	29.50	749.4	30.17	766.2	51.1	10.6	84	calm			0		kn			0	0		M. Labroue, Director.
Alençon, Normal School	29.43	747.5	29.98	761.5	48.6	9.2	74	s.			2		n		ne.	0	0		M. Nicot, Director.
Arras, Engineer School	29.61	752.0	29.87	758.6	51.1	10.6	75	wsw.			4	ck	0	w.		0	0		M. Klein, Commandant.
Avignon, Normal School	30.00	762.0	30.08	764.0	55.4	13	61	n.			1		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.51	749.5	30.07	763.8	48.2	9.0	43	sw.			1		8			0	0	very cloudy	M. Saillard, Director.
Beauvais, Normal School	29.70	754.4	29.97	761.2	51.1	10.6	68	ssw.			2		8		wsw.	0	0	very cloudy	M. Frère Eugène Mari.
Besançon, Normal School	29.15	740.4	30.05	763.3	47.3	8.5	86	ne.			1	c	0	s.		0	0		M. Gobin, Director.
Bordeaux, Observatory	29.87	758.7	30.14	765.5	55.4	13.0	49	sw.			1		8		w.	0	0	very cloudy	M. Rayet, Director.
Bourges, Normal School	29.48	748.9	30.05	763.2	46.4	8	72	sw.					8		sw.	0.020	0.5		M. Postel, Director.
Brest, Naval Observatory	29.74	755.3	29.98	761.5	55.4	13.0	88	sw.			2		8		sw.	0.008	0.2		M. de Kermaree, Dir.
Caen, Normal School	29.85	758.2	29.93	760.1	53 6	12	67	s.			2		2		sw.	0	0	slightly cl'dy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.65	753.2	29.97	761.3	49.5	9.7	66	s.			4		2		w.	0	0	slightly cl'dy	M. Jadot, Director.
Charleville, Normal School	29.45	748.0	29.97	761.1	46.4	8	70	sw.			1		8		ne.	0	0	¾ covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.74	730.0	30.11	764.8	50.5	10.3	60	e.			1		2		sw.	0.343	8.7	¼ covered	M. Allnard, Director.
Cluny, Normal School	29.26	743.3	30.15	765.8	49.1	9.5	71	nw.			4		6		n.	0.024	0.6		M. de Villemontée, Dir.
Commercy, Normal School	29.19	741.3	30.07	763.7	49.8	9.9	52	w.			1	c	5 kn	w.	w.	0	0	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.51	698.8	30.08	764.1	47.1	8.4	55	ne.			1					0	0		M. Jeanginard, Director.
Gréasque, du. Rhone	28.91	734.2	30.04	763.0	54.1	12.3	43	n.			1		1		nne.	0.24	6.		M. Kina, Director.
Grenoble, Normal School	29.31	744.5	30.17	766.4	48.2	9	65	wnw.			1		kn	se.	n.	0	0		M. Ablard, Director.
Guéret, Normal School	28.51	724.2	30.11	764.8	45.5	7.5	38	sw.			1					0	0		M. Rivoire, Director.
Lamballe, Normal School	29.69	754.0	29.96	761.0	50.7	10.4	80	sw.			2		8		sw.	0	0	very cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.57	751.1	30.14	765.5	53.6	12.0	65	w.			3		2			0.126	3.2	slightly cl'dy	M. Chauvin, Director.
Lorient, Naval Observatory	29.93	760.3	30.04	762.9	55.4	13.0	88	sw.			4		8		w.	0	0	¾ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.06	738.2	30.15	765.7	43.9	6.6	67	n.			1		10 n		wnw.	0.280	7.1	covered	M. André, Director.
Mans, Normal School	29.74	755.3	30.05	763.3	49.1	9.5	69	sw.			3		8		sw.	0	0	very cloudy	M. Piboen, Director.
Marseille, Observatory	29.77	756.2	30.04	763.1	57.6	14.2	56	wnw.			1		1			0.016	0.4		M. Stephan, Director.
Montlouis l'Instituteur	24.79	629.7	29.63	752.7	34.2	1.2	90	nw.	13.0	5.8			8		n.	0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.94	760.4	30.07	763.7	57.2	14	55	e.			2		5		n.	0	0	fair	M. Galzin, Director.
Nancy, Normal School	29.22	742.2	30.01	762.2	48.9	9.4	48	sw.			1	2 ck	0			0	0	slightly cl'dy	M. Hasse, Director
Nantes, Observatory	29.92	760.0	30.08	764.0	53.8	12.1	81	ssw.			1–3		10 n		sw.	0	0		M. Larocque, Director.
Perpignan, Observatory	30.01	762.2	30.12	765.1	52.9	11.6	47	nw.	26.2	11.7			6		n.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.09	535.8			18.1	— 7.7		ne.			1		1		ne.	0.307	7.8	clear	Gen'l de Nansouty, Dir.
Privas, Normal School	29.00	736.6	30.10	764.4	47.8	8.8	63	n.			1		5	sw	s.	0	0	cloudy	M. Taillieu.
Puy de Dôme Obs'y, Summit	25.12	638.0			25.9	— 3.4	100	wnw.			3		0			0.602	15.3	clear	M. Allnard, Director.
Rochefort, Naval Obs'y	30.07	763.8	30.10	764.6	53.2	11.8	74	sw.			2		10		w.	0.039	1.0	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.82	757.5	30.04	763.0	51.4	10.8	75	ssw.			1		5		ssw.	0	0	cloudy	M. Mouillot, Director.
Rodez, Normal School	28.02	711.8	30.24	768.2	40.3	4.6	93	nw.			1		10			0.256	6.5	covered	M. Serger, Director.
Rouen, Normal School	29.90	759.5	29.95	760.7	55.4	13	63	sw.			1		5			0	0	cloudy	M. Platrier, Director.
Saint Maur, Observatory	29.84	758.0	30.01	762.2	50.2	10.1	62	ssw.			3		1		wnw.	0	0		M. Renou, Director.
Toulouse, Observatory	29.48	748.8	30.21	767.3	51.1	10.6	60	wsw.			1		8		nw.	0.051	1.3	very cloudy	M. Baillaud, Director.
Versailles, Observatory	29.50	749.4	30.00	761.9	49.3	9.6	69	sw.			3					0	0		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.72	754.9	30.01	762.3	51.8	11.0	65	ssw.			2		5 k		wsw.	0	0		M. Marié Davy, Director
GERMAN.																			
Bamberg	29.10	739.2	29.95	760.8	46.4	8.0	50	wnw.			3	0	5 k		w.	0	0		Prof. Dr. Hoh.
Berlin	29.58	751.4	29.76	755.9	46.4	8.0	76	sw.			4		9			0.142	3.6		Prof. Dr. Arndt.
Breslau	29.30	744.2	29.83	757.6	44.8	7.1	62	w.			5		10			0	0		Royal University Obs'y.
Carlsruhe	29.58	751.5	30.03	762.7	49.6	9.8	45	sw.			5		1	sw.		0	0		Albert Senz.
Cassel	29.11	739.4	29.82	757.5	37.2	2.9	67	s.			4		5	s.		0	0		Dr. H. Möhl.
Frankfort on the Main	29.58	751.4	29.95	760.7	52.3	11.3	58	sw.			3		6			0	0		Physical Society.
Friedrichshafen	28.61	726.6	30.07	763.7	46.4	8.0	81	ssw.			2		5	wsw.		0	0		Wilhelm, Chief Tel.
Hamburg	29.60	751.9	29.70	754.3	45.7	7.6	79	w.			5		7			0.035	0.9		E. Preller.
Kiel	29.58	751.2	29.59	751.6	45.7	7.6	77	sw.			6		8			0.098	2.5		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.44	747.8	29.87	758.6	45.7	7.6	67	w.			5		9	sw.		0.020	0.5		H. Leppig, Asst.
Magdeburg	29.61	752.2	29.80	757.0	45.7	7.6	76	w.			4	0	5 k		w.	0	0		Dr. Assmann.
Memel	29.44	747.8	29.48	748.9	38.5	3.6	92	sw.			5	6 cs	0			0	0		Issermann.
Munich	28.18	715.8	30.04	763.1	44.6	7.0	72	nw.			1		5	sw.		0.012	0.3		Central Station.
Neufahrwasser	29.57	751.0	29.58	751.4	44.8	7.1	70	wsw.			3		5	w.		0.028	0.7		A. Lothes.
Neustadt, Palatinate	29.42	747.3	29.95	760.7	47.8	8.8	60	w.			3		7	w.		0	0		Dicknether.
Stuttgart	29.06	738.0	29.96	760.9	49.6	9.8	44	w.			1		2	w.		0	0		Prof. Dr. Schoder.
Wustrow	29.62	752.4	29.65	753.0	42.6	5.9	86	sw.			5		10 s			0	0		Profs. Brandes & Reimer.
GREEK.																			
Athens	29.80	757.0	30.19	766.9	61.9	16.6		sw.			1.0		2			0	0	misty	Schmidt & Wourlisch.
INDIAN.																			
Bellary	28.38	720.8			92.8	33.8	11	se.	4.0	1.8			0			0	0	blue sky	
Kurrachee	29.96	761.1	30.02	762.4	79.1	26.2	61	wsw.	22	9.8			0			0	0	blue sky	
Deesa	29.41	747.0	29.88	759.0	86.3	30.2	23	sw.	7.2	3.2			0			0	0	blue sky	
Bombay	29.93	760.3	29.97	761.2	77.7	25.4	55	wnw.	12.0	5.4			0			0	0	blue sky	
Poona, Yarrowda	28.02	711.7	29.84	757.9	87.9	31.1	25	wsw.	21	9.4			0			0	0	blue sky	
Belgaum	27.36	694.9	29.87	758.6	82.5	28.1	29	ssw.	7	3.1			0			0	0	blue sky	
Lahore	29.27	743.4	30.02	762.6	74.3	23.5	24	wnw.	1.3	0.6			0			0	0	blue sky	
Roorkee	29.06	738.2	29.98	761.4	75.8	24.3	20	nw.	1.9	0.8			0			0	0	blue sky	
Agra	29.41	747.0	29.98	761.5	80.2	26.8	24	n.	4.2	1.9			0			0	0		
Nagpur	28.85	732.8	29.87	758.7	93.7	34.3	21	ssw.	5.2	2.3			0			0	0	blue sky	
Jubbulpore	28.57	725.6	29.90	759.6	89.0	31.7	18	s.	2.6	1.2			1		ne.	0	0	blue sky	
Lucknow	29.61	752.1	29.99	761.6	84.2	29.0	13	calm	3.8	1.7			0			0	0	misty	
Allahabad	29.65	753.2	29.97	761.2	82.7	28.2	27	calm	0.7	0.3			5			0	0	d. clouds	
Patna	29.79	756.6	29.98	761.4	81.6	27.6	32	wnw.	4.2	1.9			0			0	0	blue sky	
Hazaribagh	27.93	709.5	29.94	760.4	81.3	27.4	28	nw.	7.2	3.2			0			0	0	blue sky	
Cuttack	29.90	759.3	29.98	761.4	86.1	30.1	48	calm	1.0	0.4			0			0	0	blue sky	
Calcutta, Alipore	29.95	760.6	29.97	761.2	82.0	27.8	44	ene.	5.0	2.2			0			0	0	blue sky	
Dhubri	29.83	757.8	29.96	760.9	76.7	24.8	42	calm	1.3	0.6			0			0	0	blue sky	
Chittagong	29.88	758.9	29.97	761.2	79.7	26.5	60	wnw.	2.4	1.1			0			0	0	blue sky	
Sibsagar	29.67	753.5	30.01	762.2	71.8	22.1	72	ne.	3.6	1.6			0			0	0	blue sky	
Jeypore	28.50	724.0	29.96	760.8	78.7	25.9	23	ese.	9.1	4.0			0			0	0	blue sky	
Zanzibar, Africa	29.81	757.2			82.6	28.1	82	nnw.	9.1	4.1			3			0	0	d. clouds	
Trichinopoly	29.66	753.4			90.3	32.4	35	ne.	1	0.4			0			0	0	blue sky	
ITALIAN.																			
Udine	29.63	752.7	30.05	763.2	52.2	11.2	66	sw.	0.7	0.3			4			0.173	4.4		Prof. Giovanni Clodig.
Milan	29.56	750.9	30.09	764.2	47.5	8.6	74	n.	1.8	0.8			8	sw.		0.469	11.9		Prof. Schiaparelli.
Padua	29.94	760.4	30.05	763.2	50.7	10.4	74	ese.	1.3	0.6			3	sw.		0.094	2.4		Prof. Dott. Lorenzoni.
Moncalieri	29.14	740.1	30.06	763.5	48.7	9.3	70	s.	1.3	0.6			1			0	0		Prof. P. F. Denza.
Genoa	29.85	758.1	30.04	763.0	55.4	13.0	58	sw.	3.8	1.7			0			0.071	1.8		Prof. G. M. Garibaldi.
Mondovi	28.10	713.8	30.04	763.1	43.0	6.1	52	w.			2		0			0.260	6.6		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
ITALIAN.—Continued.																			
Pesaro	30.00	762.1	30.05	763.3	48.7	9.3	84	n.	10.5	4.7			9	se.		0.059	1.5		Prof. Luigi Guidi.
Florence	29.78	756.4	30.04	762.9	55.0	12.8	71	e.			2		2			0.197	5.0		Prof. Costantino Pitter.
Leghorn	29.88	759.0	29.97	761.2	56.8	13.8	55	ene.	2.5	1.1			3	se.		0.020	0.5		Prof. P. Monte.
Rome	29.84	757.9	30.01	762.3	57.7	14.3	63	se.	9.4	4.2			10			0.201	5.1		Prof. P. S. Ferrari.
Lecce	29.86	758.4	30.11	764.9	57.9	14.4	59	ssw.	20.6	9.2			9	s.		0	0		Prof. C. de Giorgi.
Cosenza	29.17	741.0	30.08	763.9	52.9	11.6	73	sse.	2.5	1.1			10	se.		0.102	2.6		Prof. D. Conti.
Cagliari																			Prof. A. Pacinotti.
Palermo	29.68	753.9	29.93	760.3	52.2	11.2	83	e	4.3	1.9			10	e.		0.476	12.1		Prof. G. Olacciatore.
Syracuse	29.85	758.2	29.89	759.3	58.6	14.8	78	ene.	18.6	8.3			10	ene.		0	0		Prof. Vincenzo Guiliano.
Sub-series.																			
Naples, S. R	29.49	749.0	30.01	762.3	58.1	14.5	69	s.	0	0			10	s.		0	0		Prof. T. Brioschi.
Stelvio	22.05	566.1			28.2	— 2.1	61	ne.			2		8			0	0	misty	Prof. P. F. Denza.
Valdobbia	22.08	560.9			28.2	— 2.1	73	sw.			2		0			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Aomori	29.83	757.7	29.87	758.7	30.4	— 0.9	90	wsw.	9.3	4.2			9 8			0.054	1.4	cloudy	K. Ogawa.
Hakodate	29.84	757.9	29.85	758.2	30.0	— 1.1	67	calm	0	0			1	se.		0	0	clear	
Hiroshima, I. M. Obs'y	30.25	768.3	30.27	768.8	36.4	2.4	68	nne.	4.7	2.1		ck	9 ks;s	nw.		0	0	cloudy	K. Sasaki.
Kanazawa	30.13	765.3	30.23	767.8	32.0	0.0	97	n.	11.6	5.2		ck	10 s			0.390	9.9	overcast	S. Endo.
Kioto	30.06	763.5	30.24	768.1	31.4	— 0.3	77	nw.	4.0	1.8		ck	4 n	n.		0.004	0.1	light snow	M. Tojima.
Kochi	30.21	767.3	30.23	767.8	42.1	5.6	61	nnw.	21.5	9.6		8 ck	0	wnw.		0	0	cloudy	
Nagasaki, I. M. Obs'y	30.05	763.3	30.27	768.8	39.5	4.2	79	sw.	0.8	0.4		10 cs	0			0	0	overcast	S. Takehayashi.
Niigata	30.05	763.3	30.09	764.3	32.6	0.3	54	w.	18.6	8.3		ck	7 ks	w.		0.120	3.0	cloudy	
Nobiru	29.96	761.0	29.98	761.5	30.5	— 0.8	55	ne.	5.7	2.5		0	0			0	0	clear	H. Midzushina.
Supporo					27.3	— 2.6	90	se.	3.6	1.6			9			0	0	overcast	
Tokei Obs'y, Yeddo	29.95	760.7	30.02	762.5	35.8	2.1	52	n.	7.7	3.4		0	9 ks;s	wsw.		0	0	covered	The Staff.
Wakayama	30.17	766.3	30.23	767.8	36.1	2.3	63	n.	8.5	3.8		10ck;cs	0			0	0	cloudy	Y. Kuwamuea.
MAURITIUS.																			
Mauritius Observatory	29.69	754.1	29.88	758.9	74.8	23.8	86	e.	21.	9.4			10 n	ese.		1.82	46.2	drizzling	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.65	600.6	29.87	758.6	58.1	14.5	65	ne.				0	0			0	0	clear	Vicente Fernandez.
Leon	24.36	618.8	30.08	763.9	54.1	12.3	79	n.			1	0	1			0	0	foggy	Prof. M. Leal.
Mazatlan	29.74	755.5	30.01	762.2	60.5	15.8	100	e.	1.6	0.8						0	0	misty	F. Quijano, C. E.
Mexico, Central Obs'y	23.06	585.6	30.14	765.5	50.9	10.5	58	sw.	0.9	0.4		0	2			0	0	fine	M. Tena, M. D.
Morelia	24.21	615.0	30.36	771.0	56.3	13.5	77	se.			2	2	2	sw.	s.	0	0	½ clouded	The Staff.
Pabellon, Aguascallentes	23.99	609.2	30.08	764.0	48.9	9.4	58	calm	0	0		0	0			0	0		M. V. de Leon, M. E.
Puebla, Catholic Institute	23.44	595.5	30.32	770.0	46.9	8.3	90	calm	0	0		0	4	nw.		0	0	covered	Prof. P. Spina.
San Luis Potosi	24.14	613.0	30.06	763.4	61.5	16.4	59	ssw.			1	3	0	w.		0	0	½ clouded	G. Barrosta, M. D.
Vera Cruz																			
Zacatecas	22.56	573.0	30.14	765.6	54.7	12.5	57					0	0			0	0	fine	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.83	757.6	29.83	757.6	48.7	9.3		sw.			5					0	0		
Groningen	29.65	753.1	29.71	754.5	47.5	8.6		sw.			4					0.024	0.6		
Helder	29.70	754.3	29.70	754.3	46.4	8.0		ssw.			4					0.035	0.9		
Hellevoetsluis	29.78	756.3	29.78	756.3	49.3	9.6	81	wsw.			4					0	0		
Utrecht	29.75	755.6	29.80	756.8	49.5	9.7	79	sw.			4	8				0	0	very cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	28.98	736.0	29.04	737.6	39.2	4.0	84	sse.	20	9			10			1.673	42.5	raining	
Brono	28.65	727.8	28.69	728.8	30.2	— 1.0	84	sse.	27	12			10			0.071	1.8	snowing	
Christiania	28.91	734.2	29.05	737.9	36.1	2.3	61	ssw.	2	1			2			0.173	4.4		
Gjæsvær	28.68	728.5	28.71	729.1	18.7	— 7.4		ssw.			6		1						
Lodingen	28.63	727.1	28.67	728.3	24.8	— 4.0	62	se.			2		6			0.004	0.1		
PORTUGUESE.																			
Angra, Azores					61.2	16.2	87	wsw.	6.9	3.1			2			0	0		
Campo Major	29.17	740.9	30.18	766.5	57.2	14.0	56	nnw.	3.1	1.4			2			0	0		Dr. J. A. Sampaio.
Funchal, Maderia	30.25	768.3	30.34	770.5	62.4	16.9	53	calm	0	0			10			0	0		Dr. A. M. R. dos Santos.
Lisbon, Observatory	29.92	759.9	30.28	769.2	55.9	13.3	60	nne.	13.0	5.8			8			0	0		Capt. D. A. de Cunha.
Ponta Delgada, Azores	30.30	769.6	30.37	771.4	63.3	17.4	80	wsw.	3.8	1.7			10			0	0		The Staff.
Saint Paul de Loando	29.68	753.8	29.87	758.8	82.4	28.0	81	w.	1.3	0.6			1	sse.		0	0		
Serra da Estrella	25.37	644.4	30.30	769.6	32.0	0.0	100	ene.	4.3	1.9			3			0	0		
RUSSIAN.																			
Akmolinski	29.35	745.4	30.53	775.5	13.5	—10.3	93	sw.	4	2		7 c	0			0	0		Major K. Lasarew.
Archangel	29.53	750.0	29.55	750.5	16.5	— 8.6	79	ssw.	2	1			10			0	0		Capt. Sseliwerstow.
Astrakhan	30.27	768.9	30.19	766.8	42.4	5.8	79	s.	11	5		10 cp	0			0	0	heavy cl'ds	Capt. Wisganow.
Barnaul	30.04	763.1	30.59	776.9	19.8	— 6.8	73	calm	0	0			9			0	0		Meteorological Obs'y.
Dorpat	29.53?	750.1?	29.78?	756.5?	32.9	0.5	83	s.	9	4			10 n			0.047	1.2	snowing	Observatory.
Ekuterinburg	29.19	741.5	30.20	767.1	32.4	0.2	76	ssw.	7	3			10			0	0		Meteorological Obs'y.
Kasan	29.58	751.2	29.85	758.3	33.1	0.6	76	s.	31	14			8			0.008	0.2		Observatory.
Kertch	29.97	761.2	29.99	761.7	57.0	13.9	62	ssw.	4	2		0	1 k			0	0		Lagorio & Sastyrex.
Kieff	29.06	738.2	29.71	754.5	43.0	6.1	68	wsw.	11	5		c;cs	7 ks			0.094	2.4	solar corona	Observatory.
Lugan	29.66	753.3	29.87	758.6	42.3	5.7	66	wsw.	34	15			9			0	0		Meteorological Obs'y
Moscow	28.93	734.9	29.42	747.3	34.5	1.4	85	n.	4	2			9 ks			0.083	2.1		Meteorological Obs'y.
Nikolajev	29.90	759 4	29.97	761.2	54.5	12.5	59	sw.	18	8		0	0			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor	29.91	759.8	30.00	762.0	— 2.6	—19.2	70	calm	0	0			0			0	0		Lieut. Iwanow.
Pekin, China	30.24	768.2	30.39	771.8	35.8	2.1	54	calm	0	0		0	0			0	0		Physical Observatory.
St. Petersburg	29.43	747.4	29.44	747.8	28.9	— 1.7	64	sse.	13	6			9 n			0	0		Central Physical Obs'y.
Tashkend, Laboratory	28.78	731.1	30.43	773.0	37.6	3.1	52	calm	0	0			0			0	0		Teich, A. M.
Tiflis	28.74	729.9	30.15	765.7	60.3	15.7	29	nw.	18	8		7 c	0			0	0		Physical Observatory.
Vladivostok	30.22	767.5	30.28	769.2	10.8	—11.8	82	calm	0	0		0	0			0	0		
Warsaw	29.26	743.1	29.69	754.0	42.6	5.9	71	sw.	22	10			10 ks						Astronomical Obs'y.
Wilna	29.13	739.8	29.56	750.7	34.5	1.4	91	sse.	4	2			10			0.024	0.6	heavy cl'ds	Berg, Assistant.
Yeniseisk	30.32	770.1	30.64	778.2	7.3	—13.7	65	ne.	4	2			6			0	0		M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	29.94	760.4	30.04	763.1	56.5	13.6	60	ne.	1.6	0.7		6 ck	0			0	0	½ covered	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.13	765.2	30.19	766.7	55.4	13.0	68	ne.	2.5	1.1		3	2	nw.		0.201	5.1	cloudy	Prof. Manuel de Naveran:
Burgos, Met. Obs'y	27.18	690.4	30.24	768.1	44.6	7.0	64	n.	3.8	1.7		0	4			0	0	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27.91	708.9	30.19	766.7	48.2	9.0	57	nw.	5.6	2.5		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y	29.96	760.9	30.11	764.7	60.4	15.8	43	nnw.	5.4	2.4		0	4			0	0	clouds	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.27	743.5	30.19	766.8	49.6	9.8	88	sw.	4.9	2.2			10			0.028	0.7	sprinkling	R. Gil Vallanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I	30.00	762.0	30.07	763.7	65.2	18.4	87	calm	0	0		0	0			0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.91	759.8	29.97	761.2	79.1	26.2	65	ese.	4.4	2.0		3 cs	2 s	ene.		0	0	fair	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.14	765.6	30.24	768.1	57.7	14.3	63	nnw.	13.7	6.1		1	2	w.	w.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	30.00	762.0	30.09	764.3	68.7	20.4	96	calm	0	0		6 s	4 kn	e.	e.	0	0	cloudy	Manuel Maeu.
Tuguegarao, Philippine Id's	29.91	759.7	30.04	763.0	72.3	22.4	87	nnw.	8.4	3.8		6 ck	4 kn	se.	n.	inap.	inap.	covered	José L. Yrastorza.
SWEDISH.																			
Haparanda	29.04	737.6	29.08	738.6	16.5	— 8.6	94	s.			4		10			0.157	4.0	snowing	
Umea	28.88	733.6	28.93	734.9	32.4	0.2	100	sw.			4		10			0.197	5.0		
Hernosand	28.86	733.1	28.91	734.4	30.4	— 0.9	90	s.			2		10			0.004	0.1		
Stockholm	28.92	734.6	29.10	739.1	37.0	2.8	82	w.			2		10			0.102	2.6		
Wisby	29.21	741.8	29.26	743.3	39.2	4.0	80	w.			6		10			0.208	6.8		
Sub-series.																			
Upsala	28.95	735.4	29.04	737.6	34.9	1.6	83	wsw.	15.9	7.1			7		wsw.	0.016	0.4		S. G. Fineman.
SWISS.																			
Geneva	28.64	727.4	30.08	763.9	49.5	9.7	65	wnw.			1					0.020	0.5	cloudy	The Observatory.

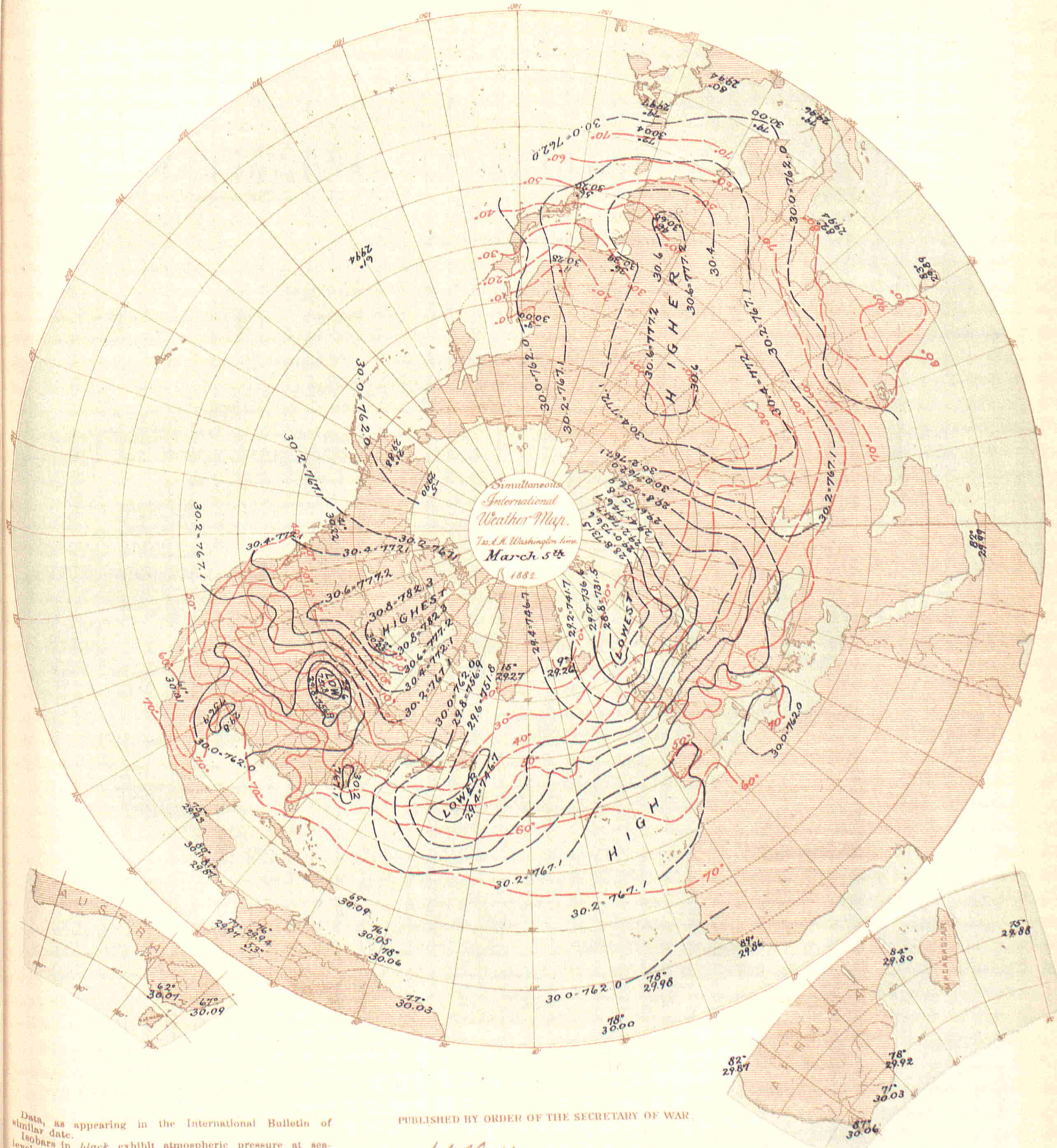
STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
TURKISH.																			
Constantinople	.....	.....	30.19	766.7	62.1	16.7	53	sw.	9	4.0	.....	.....	4	.....	sw.	0	0	.....	The Observatory.
Valona	.....	.....	30.05	763.2	60.1	15.6	.....	sw.	.....	.....	1	.....	10	.....	.....	0	0	covered.....	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	30.17	766.4	62.2	16.8	79	nne.	.....	.....	3	0	0	.....	.....	0	0	.....	Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	30.10	764.5	30.19	766.8	41.5	5.3	48	n.	4	1.8	.....	1 c	0	n.	.....	0	0	clear.....	J. O. Barnes.
Alpena, Michigan	29.25	742.9	29.95	760.7	33	0.6	88	se.	23	10.3	.....	.....	10 s	.....	s.	0.07	1.8	cloudy.....	Jas. J. Fitzgerald.
Atlanta, Georgia	28.89	733.8	30.10	764.5	56.5	13.6	68	s.	8	3.6	.....	8 k	0	sw.	.....	0	0	cloudy	H. Hall.
Atlantic City, New Jersey	30.15	765.8	30.16	766.1	36.8	2.7	51	n.	6	2.7	.....	0	0	.....	.....	0	0	clear.....	Jas. M. Watson.
Augusta, Georgia	29.94	760.5	30.14	765.5	53.0	11.7	80	calm	0	0	.....	0	sk.	.....	.....	0	0	dense smoke	John Healy.
Baltimore, Maryland	30.14	765.5	30.19	766.8	42	5.6	51	n.	1	0.4	.....	hz.	fg.	.....	.....	0	0	light haze...	Robert Seyboth.
Barnegat, New Jersey	30.14	765.5	30.16	766.1	36.5	2.5	65	n.	11	4.9	.....	0	0	.....	.....	0	0	clear.....	Chas. F. Merritt.
Bismarck, Dakota	28.16	715.3	30.08	764.0	5	—15.0	79	n.	40	17.9	.....	.....	10 n	.....	.....	0.40	10.2	light snow..	Cyrus Cramer.
Boise City, Idaho	27.35	694.7	30.27	768.8	13	—10.6	91	calm	0	0	.....	.....	10 s	.....	calm	0.55	14.0	cloudy	B. E. Light.
Boston, Massachusetts	29.94	760.5	30.10	764.5	34.0	1.1	71	nw.	8	3.6	.....	0	0	.....	.....	0	0	clear.....	O. B. Cole.
Brownsville, Texas	29.74	755.4	29.78	756.4	74	23.3	90	s.	12	5.4	.....	0	1 s	.....	s.	0	0	clear.....	J. C. Galloway.
Buffalo, New York	29.26	743.2	30.05	763.3	34.4	1.3	57	ne.	14	6.3	.....	.....	10ks;s	.....	sw.	0	0	cloudy	Wm. Finn.
Burlington, Vermont	29.86	758.4	30.16	766.1	28.5	— 1.9	69	ne.	6	2.7	.....	0	0	.....	.....	0.01	0.3	clear.....	G. C. Schaeffer.
Cairo, Illinois	29.47	748.5	29.89	759.2	56.6	13.7	77	n.	16	7.2	.....	.....	10 n	.....	w.	0.02	0.5	light rain...	W. H. Ray.
Campo, California	27.50	698.5	30.11	764.8	24.5	— 4.2	88	e.	2	0.9	.....	0	0	.....	.....	0	0	clear.....	W. H. Clendenon.
Camp Thomas, Arizona	27.20	690.9	29.98	761.5	32	0.0	81	calm	.....	.....	0	0	0	.....	.....	0	0	clear.....	J. T. Fitzgerald.
Cape Henry, Virginia	30.19	766.8	30.21	767.3	44	6.7	68	ne.	10	4.5	.....	1 ck	2 s	.....	.....	0	0	clear.....	J. E. Lanouette.
Cape May, New Jersey	30.15	765.8	30.18	766.6	40	4.4	67	n.	8	3.6	.....	0	0	.....	.....	0	0	clear.....	W. Bolten.
Castroville, Texas	28.98	736.1	29.81	757.2	70	21.1	90	se.	6	2.7	.....	.....	10 s	.....	se.	0	0	cloudy	T. Jones.
Cedar Keys, Florida	30.12	765.0	30.14	765.5	64	17.8	78	e.	5	2.2	.....	0	0	.....	.....	0	0	clear.....	F. W. Mixer.
Champaign, Illinois	29.00	736.6	29.86	758.4	43.5	6.4	78	nw.	10	4.5	.....	2 c	2 s	nw.	nw.	0.08	2.0	fair.....	L. A. Welsh.
Charleston, S. Carolina	30.05	763.3	30.11	764.8	58	14.4	93	calm	0	0	.....	0	fg	.....	.....	0	0	clear.....	J. H. Smith.
Charlotte, N. Carolina	29.24	742.7	30.12	765.0	51.0	10.6	80	e.	5	2.2	.....	10 cs	fg.	.....	.....	0	0	cloudy	D. O. Donoghue.
Chattanooga, Tennessee	29.18	741.2	30.03	762.7	61.0	16.1	72	se.	2	0.9	.....	.....	10 ks	.....	sw.	0	0	cloudy	B. L. Goulding.
Cheyenne, Wyoming	23.93	607.8	30.11	764.8	6.3	—14.3	86	n.	8	3.6	.....	0	0	.....	.....	0	0	clear.....	E. McGovern.
Chicago, Illinois	29.06	738.1	29.80	756.9	39.6	4.2	90	w.	7	3.1	.....	0	0	.....	.....	inap.	inap.	clear.....	J. Mitchell.
Chincoteague, Virginia	30.15	765.8	30.17	766.3	41	5.0	57	ne.	9	4.0	.....	2 c	0	.....	.....	0	0	clear.....	F. C. Pratz.
Cincinnati, Ohio	29.20	741.7	29.89	759.2	51	10.6	86	se.	3	1.3	.....	.....	10 n	.....	.....	0.42	10.7	heavy rain...	R. B. Watkins.
Cleveland, Ohio	29.14	740.1	29.92	760.0	38.2	3.4	71	se.	22	9.8	.....	.....	10 n	.....	w.	0.14	3.6	light rain....	J. B. Newlin.
Coleman City, Texas	28.00	711.2	29.85	758.2	61	16.1	90	s.	4	1.8	.....	.....	10 s	.....	s.	0	0	cloudy	L. Dorman.
Columbus, Ohio	29.03	737.3	29.92	760.0	43	6.1	93	e.	8	3.6	.....	.....	10 n	.....	w.	0.72	18.3	heavy rain..	D. Cuthbertson.
Concho, Texas	27.84	707.1	29.82	757.4	59	15.0	87	w.	2	0.9	.....	4 ck	0	sw.	.....	0	0	fair.....	W. W. McConihe.
Davenport, Iowa	29.15	740.4	29.84	757.9	39	3.9	65	sw.	10	4.5	.....	0	1 s	.....	calm	0.02	0.5	clear.....	R. R. Martin.
Dayton, Washington T'y	28.64	727.4	30.44	773.2	23.7	— 4.6	89	sw.	1	0.4	.....	3 k	4 s	sw.	sw.	0.08	2.0	fair.....	H. Clifford.
Deadwood, Dakota	25.34	643.6	30.18	766.6	8	—13.3	80	sw.	8	3.6	.....	.....	10 s	.....	w.	0.51	13.0	cloudy	G. W. Scott.
Decatur, Texas	.....	.....	.....	.....	68	20.0	73	sw.	8	3.6	.....	.....	10 s	.....	s.	0	0	cloudy.....	D. J. Carr.
Delaware Breakwater, Del.	30.16	766.1	30.18	766.6	40	4.4	73	n.	9	4.0	.....	2 c	0	.....	.....	0	0	clear.....	A. Schneider.
Denison, Texas	28.97	735.8	29.80	756.9	68.0	20.0	90	s.	11	4.9	.....	.....	10 s	.....	s.	0	0	cloudy.....	J. McGlone.
Denver, Colorado	24.70	627.4	30.14	765.5	17.0	— 8.3	100	ne.	8	3.6	.....	0	4 n	.....	calm	inap.	inap.	light snow..	F. M. Neal.
Des Moines, Iowa	28.93	734.8	29.89	759.2	31	— 0.6	68	nw.	14	6.3	.....	0	3 s	.....	nw.	0.04	1.0	clear.....	F. W. Conrad.
Detroit, Michigan	29.18	741.2	29.93	760.2	44.3	6.8	76	e.	9	4.0	.....	.....	10 n	.....	calm	0.28	7.1	light rain....	C. F. R. Wappenhans.
Dodge City, Kansas	27.41	696.2	30.14	765.5	26	— 3.3	70	n.	8	3.6	.....	9 cs	0 .	.....	.....	0	0	cloudy	E. A. Thomas.
Dubuque, Iowa	29.03	737.3	29.78	756.4	33.5	0.8	78	sw.	9	4.0	.....	.....	10 s	.....	w.	0.09	2.3	cloudy.....	J. Harvey Smith.
Duluth, Minnesota	28.73	729.7	29.47	748.5	34	1.1	88	ne.	14	6.3	.....	.....	10 s	.....	ne.	0.75	19.0	cloudy	N. B. Conger.
Eagle Pass, Texas	28.98	736.1	29.80	756.9	70.2	21.2	93	se.	5	2.2	.....	.....	10 n	.....	.....	inap.	inap.	light rain....	F. Belford.
Eagle Rock, Idaho	25.31	642.9	30.18	766.6	— 4	—20.0	71	sw	14	6.3	.....	0	0	.....	.....	0	0	clear.....	J. M. Clifford.
Eastport, Maine	29.92	760.0	29.99	761.7	32	0.0	78	n.	23	10.3	.....	.....	10 s	.....	n.	0.10	2.5	cloudy.....	J. H. Melton.
El Paso, Texas	26.17	664.7	29.97	761.2	40	4.4	36	nw.	9	4.0	.....	0	0	.....	.....	0	0	clear.....	J. F. Marshall.
Erie, Pennsylvania	29.22	742.2	29.99	761.7	42	5.6	50	se.	2	0.9	.....	.....	10 n	.....	.....	0.01	0.3	light rain	R. H. Paxton.
Escanaba, Michigan	28.97	735.8	29.68	753.9	36	2.2	89	se.	17	7.6	.....	.....	10 n	.....	se.	0.18	4.6	light rain....	C. Dill.
Florence, Arizona	28.49	723.6	30.06	763.5	32.7	0.4	72	w.	2	0.9	.....	0	0	.....	.....	0	0	clear.....	R. R. Herman.
Fort Apache, Arizona	24.98	634.5	30.00	762.0	30	— 1.1	70	ne.	4	1.8	.....	0	0	.....	.....	0	0	clear.	W. C. Barnes.
Fort Assinnaboine, Montana	27.59	700.8	30.60	777.2	2	—16.7	49	w.	5	2.2	.....	.....	10 n	.....	.....	0.10	2.5	light snow...	B. O. Lenoir.
Fort Bennett, Dakota	28.39	721.1	30.09	764.3	13	—10.6	83	nw.	28	12.5	.....	.....	10 s	.....	.....	0.78	19.8	cloudy	T. Gibson.
Fort Benton, Montana	27.62	701.5	30.60	777.2	2	—16.7	100	calm	0	0	.....	.....	10 n	.....	ne.	0.13	3.3	light snow..	S. Wheaton.
Fort Buford, Dakota	28.25	717.5	30.39	771.9	5	—15.0	100	nw.	22	9.8	.....	.....	10 n	.....	nw.	0.10	2.5	light snow..	A. H. Bell.
Fort Custer, Montana	27.12	688.8	30.45	773.4	8	—13.3	80	nw.	5	2.2	.....	.....	10 n	.....	calm	0.01	0.3	light snow..	V. Verge.
Fort Davis, Texas	25.05	636.3	29.93	760.2	39	3.9	67	s.	4	1.8	.....	0	0	.....	.....	0	0	clear.....	J. Williams.
Fort Elliott, Texas	27.12	688.8	29.95	760.7	37	2.8	42	n.	24	10.7	.....	.....	10 s	.....	n.	0	0	cloudy.....	W. J. Cundall.
Fort Gibson, Indian T'y	29.34	745.2	29.92	760.0	48.5	9.2	56	ne.	12	5.4	.....	.....	10 s	.....	w.	0	0	cloudy.....	J. B. Campbell.
Fort Grant, Arizona	25.13	638.3	29.96	761.0	30	— 1.1	38	se.	6	2.7	.....	0	0	.....	.....	0	0	clear.....	T. J. Macgowan.
Fort Griffin, Texas	28.51	724.1	29.86	758.4	58	14.4	75	n.	4	1.8	.....	.....	10 s	.....	w.	0	0	cloudy	G. H. Hayne.
Fort Keogh, Montana	27.78	705.6	30.43	772.9	5	—15.0	54	nw.	16	7.2	.....	.....	10 n	.....	nw.	0.02	0.5	light snow..	W. B. Stockman.
Fort Macon, North Carolina	30.17	766.3	30.18	766.6	49	9.4	77	ne.	6	2.7	.....	hz.	0	calm	.....	0	0	clear.....	L. Leonardy.
Fort McKavett, Texas	27.56	700.0	29.88	758.9	64.2	17.9	93	s.	5	2.2	.....	3 c	c	.....	.....	0	0	fair.....	J. E. Thatcher.
Fort Missoula, Montana	26.99	685.5	30.37	771.4	8	—13.3	58	n.	2	0.9	.....	0	0	.....	.....	0.03	0.8	clear.....	J. H. Jones.
Fort St. Michaels, Alaska	29.84	757.9	29.88	758.9	21	— 6.1	100	se.	4	1.8	.....	.....	10 s	.....	se.	0	0	cloudy..	A. P. Leavitt.
Fort Shaw, Montana	26.73	678.9	30.53	775.4	5	—15.0	76	calm	0	0	.....	6 cs	0	.....	.....	0.09	2.3	fair.....	A. L. Mathews.
Fort Sill, Indian Territory	28.60	726.4	29.89	759.2	46.5	8.1	67	n.	24	10.7	.....	10 ck	0	w.	.....	0	0	cloudy	T. Cleary.
Fort Stevenson, Dakota	28.22	716.8	30.20	767.1	5	—15.0	76	n.	34	15.2	.....	.....	10 n	.....	n.	0.95	24.1	light snow..	W. Burrows.
Fort Verde, Arizona	.....	.....	.....	.....	25.8	— 3.4	44	nw.	.....	.....	2	0	0	.....	.....	0	0	clear.....	D. Brooks.
Fort Washakie, Wyoming	24.47	621.5	.....	.....	10.4	—12.0	83	se.	3	1.3	.....	.....	10 s	.....	.....	0.03	0.8	cloudy	T. M. Ambler.
Fredericksburg, Texas	28.04	712.2	29.80	756.9	67	19.4	90	s.	13	5.8	.....	.....	10 ks	.....	s.	0	0	cloudy.....	H. S. Miles.
Galveston, Texas	29.87	758.7	29.91	759.7	70	21.1	95	s.	12	5.4	.....	.....	10 ks	.....	sw.	0.06	1.5	cloudy	E. O'C. Maclnerney.
Grand Haven, Michigan	29.07	738.4	29.77	756.1	41.0	5.0	88	se.	8	3.6	.....	.....	10 s	.....	se.	0.53	13.5	cloudy.....	W. A. Reid.
Hatteras, North Carolina	30.18	766.6	30.20	767.1	48	8.9	63	e.	12	5.4	.....	0	0	.....	.....	0	0	clear.....	R. M. Crawford.
Helena, Montana	25.95	659.1	30.32	770.1	9	—12.8	60	nw.	5	2.2	.....	.....	10 s	.....	.....	0.04	1.0	cloudy.....	N. C. Smith.
Henrietta, Texas	28.83	732.3	29.87	758.7	53	11.7	80	n.	11	4.9	.....	.....	10 s	.....	.....	0	0	cloudy	J. W. Byram.
Huron, Dakota	28.46	722.9	29.94	760.5	13.8	—10.1	58	nw.	50	22.4	.....	.....	10 n	.....	.....	0.33	8.4	light snow..	S. W. Glenn.
Indianapolis, Indiana	28.98	736.1	29.82	757.4	52	11.1	86	se.	2	0.9	.....	.....	10 s	.....	se.	0.20	5.1	cloudy.....	O. Schutze.
Indianola, Texas	29.82	757.4	29.85	758.2	70.7	21.5	94	s.	16	7.2	.....	2 c	fg.	w.	.....	0	0	clear.....	I. A. Reed.
Jacksboro, Texas	28.61	726.7	29.82	757.4	63	17.2	90	s.	12	5.4	.....	.....	10 ks	.....	s.	0	0	cloudy	J. P. Sherry.
Jacksonville, Florida	30.10	764.5	30.15	765.8	57	13.9	86	calm	0	0	.....	2 ck	fg	.....	.....	0	0	clear.....	J. W. Smith.
Keokuk, Iowa	29.22	742.2	29.91	759.7	36.5	2.5	64	w.	6	2.7	.....	0	0	.....	.....	0	0	clear.....	F. Z. Gosewisch.
Key West, Florida	30.07	763.8	30.09	764.3	71.0	21.7	82	ne.	12	5.4	.....	0	6 s	.....	ne.	0	0	threatening.	L. M. Melbourne.
Kittyhawk, North Carolina	30.20	767.1	30.22	767.6	46	7.8	76	e.	10	4.5	.....	1 cs;hz	0	.....	.....	0	0	clear.....	E. A. Beals.
Knoxville, Tennessee	28.97	735.8	30.03	762.7	52.8	11.6	83	e.	2	0.9	.....	.....	9 s	.....	sw.	0	0	cloudy.....	J. A. Cody.
La Crosse, Wisconsin	28.79	731.3	29.61	752.1	37	2.8	51	sw.	28	12.5	.....	.....	10 s	.....	w.	0.24	6.1	cloudy	S. G. Emery.
La Mesilla, New Mexico	26.11	663.2	30.06	763.5	36.5	2.5	60	sw.	5	2.2	.....	2 c	2 s	.....	.....	0	0	fair.....	N. D. Lane.
Leavenworth, Kansas	29.11	739.4	30.05	763.3	32	0.0	78	nw.	4	1.8	.....	2 cs	0	w.	.....	0	0	clear.....	A. W. Browne.
Lewiston, Idaho	29.58	751.3	30.44	773.2	26.4	— 3.1	58	s.	2	0.9	.....	0	0	.....	.....	0.05	1.3	clear.....	W. Blake.
Little Rock, Arkansas	29.51	749.5	29.84	757.9	66	18.9	90	w.	3	1.3	.....	.....	10 ks	.....	sw.	0	0	threatening.	M. F. Burrows.
Los Angeles, California	29.78	756.4	30.18	766.6	40.0	4.4	82	n.	5	2.2	.....	0	0	.....	.....	0	0	clear.....	E. F. Kubel.
Louisville, Kentucky	29.23	742.4	29.82	757.4	63	17.2	84	nw.	14	6.3	.....	.....	10 n	.....	sw.	0.10	2.5	light rain...	H. C. Smith.
Lynchburg, Virginia	29.47	748.5	30.19	766.8	42.0	5.6	74	calm	0	0	.....	.....	10 s	.....	sw.	0	0	cloudy.....	T. H. Breen.
Madison, Wisconsin	28.66	728.0	29.72	754.9	35	1.7	79	sw.	17	7.6	.....	0	8 s	.....	sw.	0.53	13.5	cloudy.....	C. A. Shaw.
Marquette, Michigan	28.88	733 5	29.65	753.1	34	1.1	89	se.	16	7.2	.....	.....	10 s	.....	calm	0.09	2.3	cloudy	I. Gilligan.
Mason, Texas	28.12	714.2	29.81	757.2	69	20.6	84	s.	2	0.9	.....	.....	10 s	.....	s.	0	0	cloudy	A. M. Wilson.
Memphis, Tennessee	29.56	750.8	29.91	759.7	63	17.2	100	sw.	12	5.4	.....	.....	10 n	.....	.....	0.38	9.7	light rain....	D. T. Flannery.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–01	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Milwaukee, Wisconsin	28.94	735.1	29.73	755.1	39	3.9	82	sw.	9	4.0	.....	0	0	.....	.....	0.18	4.6	clear	W. Line.
Mobile, Alabama	30.02	762.5	30.06	763.5	63	17.2	93	calm	0	0	.....	3 ck	0	sw.	.....	0	0	clear	J. D. Paxton.
Montgomery, Alabama	29.82	757.4	30.06	763.5	58.2	14.6	80	s.	2	0.9	.....	3 cs	0	nw.	.....	0	0	clear	J. B. McLaughlin.
Moorhead, Minnesota	28.53	724.6	29.61	752.1	27	— 2.8	100	n.	30	13.4	.....	.....	10 n	.....	n.	0.78	19.8	heavy snow	H. Bessant.
Morgantown, W. Virginia	28.95	735.3	30.01	762.2	43.5	6.4	74	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	J. Sprigg, jr.
Mt. Washington, N. H.	23.66	601.0	30.18	766.6	21.0	— 6.1	78	n.	23	10.3	.....	0	4 s	.....	n.	0.41	10.4	fair	J. G. Linsley.
Nashville, Tennessee	29.34	745.2	29.90	759.4	65.6	18.7	79	s.	6	2.7	.....	.....	10 n	.....	sw.	0.05	1.3	light rain	L. A. Jesunofsky.
New Haven, Connecticut	30.02	762.5	30.14	765.5	36	2.2	53	n.	4	1.8	.....	2 c	sk.	w.	.....	0	0	clear	J. H. Sherman.
New London, Connecticut	30.10	764.5	30.15	765.8	40	4.4	65	nw.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. G. Lynch.
New Orleans, Louisiana	29.94	760.5	30.00	762.0	67.5	19.7	98	se.	4	1.8	.....	.....	fg.	.....	.....	inap.	inap.	dense fog	A. J. Armstrong.
Newport, Rhode Island	30.05	763.3	30.10	764.5	36.8	2.7	64	nw.	8	3.6	.....	0	0	.....	.....	0	0	clear	W. McGillivray.
New River, N. Carolina	.....	.....	.....	.....	51	10.6	59	e.	.....	.....	2	2 ck	4 ks	e.	.....	0	0	fair	C. C. Corbin.
New Shoreham, Rhode I'd.	30.08	764.0	30.11	764.8	37.2	2.9	72	n.	10	4.5	.....	0	0	.....	.....	0	0	clear	W. Davis.
New York, New York	30.00	762.0	30.18	766.6	35	1.7	69	nw.	6	2.7	.....	0	0	.....	.....	0	0	clear	E. B. Garriott.
Norfolk, Virginia	30.16	766.1	30.20	767.1	45	7.8	54	ne.	2	0.9	.....	3 ck	4 ks	ne.	.....	0	0	fair	J. T. Elker.
North Platte, Nebraska	27.08	687.8	30.14	765.5	20.6	— 6.3	74	nw.	12	5.4	.....	0	0	.....	.....	0.01	0.3	clear	E. F. Brady.
Olympia, Washington T'y	30.47	773.9	30.51	774.9	29.0	— 1.7	88	w.	2	0.9	.....	.....	10 s	.....	calm	0	0	cloudy	J. Dascomb.
Omaha, Nebraska	28.74	730.0	29.99	761.7	27.8	— 2.3	70	w.	24	10.7	.....	0	0	.....	.....	0	0	clear	A. Pollak.
Ooglaamie, Pt. Barrow, Alas.	29.88	758.9	29.90	759.4	— 4.7	—20.4	85	e.	27	12.1	.....	.....	10 s	.....	.....	0.05	1.3	cloudy	P. H. Ray.
Oswego, New York	29.81	757.2	30.15	765.8	34.1	1.2	65	s.	2	0.9	.....	5 cs	0	w.	.....	0	0	fair	S. W. Beall.
Palestine, Texas	29.31	744.5	29.88	758.9	68	20.0	84	s.	12	5.4	.....	0	8 ks	.....	.....	0	0	cloudy	L. M. Pindell.
Pensacola, Florida	30.04	763.0	30.07	763.8	63.1	17.3	100	se.	2	0.9	.....	.....	fg.	.....	.....	0	0	dense fog	M. McGauran.
Philadelphia, Pa	30.08	764.0	30.18	766.6	40	4.4	48	nw.	7	3.1	.....	1 cs	0	nw.	.....	0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	17.53	445.3	30.12	765.0	— 6.5	—21.4	100	sw.	16	7.2	.....	.....	10 n	.....	sw.	0.03	0.8	light snow	L. M. Dey.
Pioche, Nevada	24.00	609.6	30.14	765.5	22	— 5.6	64	nw.	9	4.0	.....	0	0	.....	.....	0	0	clear	C. K. Kitchel.
Pittsburg, Pennsylvania	29.15	740.4	30.00	762.0	42.5	5.8	51	ne.	6	2.7	.....	.....	10 s	.....	.....	0	0	cloudy	J. H. Bryce.
Port Eads, Louisiana	30.04	763.0	30.05	763.3	64.2	17.9	95	se.	8	3.6	.....	0	hz.	.....	.....	inap.	inap.	clear	H. G. Christian.
Port Huron, Michigan	29.19	741.4	29.91	759.7	34.0	1.1	83	se.	7	3.1	.....	.....	10 s	.....	.....	0.17	4.3	cloudy	W. O. Bailey.
Portland, Maine	30.01	762.2	30.06	763.5	38.0	3.3	62	nw.	4	1.8	.....	0	0	.....	.....	0.04	1.0	clear	D. C. Murphy.
Portland, Oregon	30.41	772.4	30.48	774.2	34.8	1.6	89	s.	1	0.4	.....	.....	fg.	.....	.....	0	0	dense fog	M. L. Hearne.
Portsmouth, N. Carolina	.....	.....	.....	.....	50	10.0	72	ne.	11	4.9	.....	3 c	0	ne.	.....	0	0	clear	F. P. Chaffee.
Prescott, Arizona	24.71	627.6	30.05	763.3	23	— 5.0	76	e.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. McN. Wright.
Provincetown, Mass.	30.04	763.0	30.07	763.8	36.5	2.5	72	n	16	7.2	.....	3 k	4 s	nw.	.....	0.01	0.3	fair	P. T. Jenkins.
Punta Rassa, Florida	30.09	764.3	30.10	764.5	60	15.6	81	e.	7	3.1	.....	0	0	.....	.....	0	0	clear	W. J. Evans.
Red Bluff, California	29.95	760.7	30.33	770.4	41.9	5.5	76	n.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.56	750.8	29.80	756.9	70	21.1	90	s.	4	1.8	.....	0	0	.....	.....	0	0	clear	W. H. Taylor.
Rochester, New York	29.42	747.3	30.12	765.0	33	0.6	60	se.	9	4.0	.....	.....	10 s	.....	nw.	0	0	cloudy	A. T. Sherwood.
Roseburg, Oregon	29.89	759.2	30.45	773.4	33	0.6	88	e.	1	0.4	.....	.....	10 s	.....	.....	0.14	3.6	cloudy	J. J. Nanry.
Sacramento, California	30.22	767.6	30.30	769.6	41.9	5.5	92	se.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.30	744.2	29.93	760.2	45.9	7.7	68	nw.	2	0.9	.....	4c;ck	3 s	sw.	.....	0.71	18.0	clearing	J. H. Webber.
St. Paul, Minnesota	28.46	722.9	29.38	746.2	32.0	0.0	96	sw.	26	11.6	.....	.....	10 n	.....	sw.	0.68	17.3	light snow	O. S. M. Cone.
St. Vincent, Minnesota	28.96	735.6	29.90	759.4	13	—10.6	100	n.	32	14.3	.....	.....	10 n	.....	calm	0.25	6.3	light snow	G. Kingsbury.
Salt Lake City, Utah	25.59	650 0	30.11	764.8	24	— 4.4	64	w.	12	5.4	.....	.....	10 n	.....	.....	0.12	3.0	light snow	J. Craig.
San Antonio, Texas	29.13	739.9	29.84	757.9	70.0	21.1	90	se.	7	3.1	.....	.....	10 s	.....	se.	0	0	cloudy	E. Laue.
San Diego, California	30.07	763.8	30.15	765.8	44.3	6.8	78	ne.	3	1.3	.....	0	0	.....	.....	0	0	clear	A. C. Dobbins.
Sandusky, Ohio	29.16	740.7	29.88	758.9	42	5.6	82	se.	10	4.5	.....	.....	10 n	.....	.....	0.45	11.4	light rain	M. H. Perry.
Sandy Hook, New Jersey	30.14	765.5	30.18	766.6	37.0	2.8	82	nw.	15	6.7	.....	0	0	.....	.....	0	0	clear	B. A. Blundon.
San Francisco, California	30.27	768.8	30.34	770.6	46	7.8	68	nw.	7	3.1	.....	1 cs	0	nw.	.....	inap.	inap.	clear	N. Gorom.
Santa Fé, New Mexico	23.02	584.7	30.00	762.0	27	— 2.8	47	n.	8	3.6	.....	0	0	.....	.....	0	0	clear	H. N. Jones.
Savannah, Georgia	30.03	762.7	30.12	765.0	58	14.4	74	calm	0	0	.....	0	fg.	.....	.....	0	0	clear	H. M. Ford.
Shreveport, Louisiana	29.61	752.1	29.86	758.4	67	19.4	93	s.	6	2.7	.....	.....	10 s	.....	s.	0.02	0.5	cloudy	E. N. Meekins.
Silver City, New Mexico	24.15	613.4	29.93	760.2	28	— 2.2	43	nw.	6	2.7	.....	0	0	.....	.....	0	0	clear	J. B. Wallace.
Sitka, Alaska	30.16	766.1	30.22	767.6	41.2	5.1	60	se.	16	7.2	.....	.....	10 s	.....	calm	0	0	cloudy	J. J. McLean.
Smithville, North Carolina	30.10	764.5	30.14	765.5	57	13.9	80	se.	9	4.0	.....	0	0	.....	.....	0	0	clear	J. C. Rickli.
Spokane Falls, Wash. Ter.	28.33	719.6	30.46	773.7	19	— 7.2	87	sw.	1	0.4	.....	0	0	.....	.....	0	0	clear	D. Moore.
Springfield, Illinois	29.19	741.4	29.91	759.7	46	7.8	76	nw.	6	2.7	.....	0	4 s	.....	nw.	9.15	3.8	fair	T. B. Jennings.
Springfield, Massachusetts	30.01	762.2	30.15	765.8	38.0	3.3	72	s.	3	1.3	.....	1 c	fg.	w.	.....	0	0	clear	T. S. Outram.
Springfield, Mo.	28.47	723.1	30.03	762.7	40.5	4.7	71	n.	8	3.6	.....	1 cs	2 s	.....	n.	0.12	3.0	clear	J. B. Marbury.
Thatcher's Island, Mass.	30.06	763.5	30.12	765.0	36.0	2.2	79	nw.	13	5.8	.....	0	0	.....	.....	0	0	clear	G. Liebmann.
Toledo, Ohio	29.14	740.1	29.87	758.7	40.6	4.8	88	e.	4	1.8	.....	.....	10 n	.....	.....	0.40	10.2	light rain	A. Buell.
Tucson, Arizona	27.57	700.3	30.03	762.7	36	2.2	82	se.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. L. Whiteside.
Umatilla, Oregon	30.18	765.8	30.53	775.4	27.2	— 2.7	91	calm	0	0	.....	0	0	.....	.....	0.08	2.0	clear	R. P. Sibley.
Uvalde, Texas	28.80	731.5	29.78	756.4	69	20.6	100	se.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	E. O. Imlay.
Vicksburg, Mississippi	29.70	754.4	29.96	761.0	68	20.0	90	s.	7	3.1	.....	0	5 s	.....	calm	inap.	inap.	fair	T. J. Kenan.
Visalia, California	29.87	758.7	30.25	768.3	37	2.8	85	calm	0	0	.....	1 k	0	.....	.....	0	0	clear	J. T. Cochran.
Washington, D. C.	30.08	764.0	30.20	767.1	35	1.7	79	nw.	1	0.4	.....	3 c	hz.	nw.	.....	0	0	fair	B. M. Purssell.
West Los Animas, Colorado	26.04	661.4	30.12	765.0	22	— 5.6	61	ne.	4	1.8	.....	0	3 s	.....	w.	0	0	clear	J. Grover.
Wickenburg, Arizona	.....	.....	.....	.....	30.5	— 0.8	66	nw.	.....	.....	1	0	0	.....	.....	0	0	clear	H. A. Kremp.
Williamsport, Pa.	29.54	750.3	30.17	766.3	34	1.1	74	nw.	1	0.4	.....	.....	10 s	.....	nw	0	0	cloudy	B. F. Hough.
Wilmington, N. Carolina	30.10	764.5	30.16	766.1	56	13.3	86	e.	8	3.6	.....	0	7 k	.....	s.	0	0	fair	S. A. Haney.
Winnemucca, Nevada	25.75	654.0	30.25	768.3	20	— 6.7	73	e.	4	1.8	.....	0	0	.....	.....	inap.	inap.	clear	J. R. Williams.
Yankton, Dakota	28.60	726.4	29.99	761.7	22	— 5.6	73	nw.	24	10.7	.....	0	0	.....	.....	0.01	0.3	clear	J. H. Atfield.
Yuma, Arizona	29.89	759.2	30.04	763.0	39.8	4.3	57	calm	0	0	.....	0	0	.....	.....	0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	21.96	557.8	.....	.....	53.0	11.7	76	calm	0	0	.....	0	3 ks	.....	.....	0.01	0.3	fair	Joaquin Gomez.
Bridgetown, Barbados, W.I.	30.05	763.3	30.06	763.5	78	25.6	77	e.	.....	.....	.....	5 ck	5 ks	e.	e.	0	0	fair	J. A. Racker.
Buenaventura, U. S. C.	29.95	760.7	29.97	761.2	77	25.0	90	ne.	3	1.3	.....	.....	10 ks	.....	n.	0	0	cloudy	J. I. Plume.
Guadeloupe, W. I.	29.93	760.2	29.95	760.7	76	24.4	87	ne.	.....	.....	.....	0	3 ks	.....	.....	0	0	clear	B. Bigar.
Havana, Cuba, W. I.	30.06	763.5	30.11	764.8	71	21.7	76	se.	2.4	1.1	.....	0	2 ks	.....	calm	0	0	fair	A. Van Caneghem.
Kingston, Jamaica, W. I.	30.03	762.7	30.04	763.0	70.0	21.1	90	n.	1	0.4	.....	1 cs	9 s	e.	e.	0.65	16.5	.....	Robert Johnston.
Navassa	30.08	764.0	30.16	766.1	77	25.0	78	ne.	12	5.4	.....	8 ck	5 s	e.	ne.	0	0	.....	F. M. Everett.
Paramaribo, S. A.	30.03	762.7	30.03	762.7	77	25.0	91	e.	.....	.....	2	.....	8 ps	e.	e.	0.680	17.3	cloudy	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.48	748.8	29.94	760.5	76	24.4	81	calm	.....	.....	0	.....	10 s	.....	calm	0.50	12.7	misty	Miss Flora A. Nichols.
Rivas	.....	.....	.....	.....	.....	.....	96	ne.	.....	.....	2	0	3 ks	.....	ne.	0	0	clear	Robert Mason.
Santiago de Cuba, W. I.	30.02	762.5	30.05	763.3	74	23.3	76	n.	7.2	3.2	.....	.....	9 s	.....	.....	0.16	4.1	cloudy	.....
York Factory, B. A.	30.90	784.8	30.95	786.1	—22.0	—30.0	.....	nw.	14	6.3	.....	0	0	.....	.....	0	0	clear	W. Wood.

STATIONS AND VESSELS.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
BRITISH NAVAL.																		
H. M. S. Agincourt, N. 36° 07′, W. 5° 21′	30.17	766.3	53	11.7	79	calm			0		0							blue sky.
H. M. S. Alert, Mahi, Seychelles Islands	29.87	758.7	85.2	29.6	72	nnw.			2		4							d. clouds.
H. M. S. Alexandra, Malta, Mediterranean	29.86	758.4	61.8	16.6	85	e.			3–5		10	ese.						squally.
H. M. S. Bacchante, Alexandria, Egypt	30.18	766.6	66	18.9	78	nne.			2–4		2	nne.						d. clouds.
H. M. S. Boadicea, S. 33° 26′, E. 17° 30′	30.02	762.5	69.5	20.8	58	s.			2		0							d. clouds.
H. M. S. Cleopatra, Suez Canal, Egypt	30.17	766.3	68	20.0	69	nnw.			2		0					2	sw.	blue sky.
H. M. S. Comus, Singapore, Malay Pen	29.96	761.0	79	26.1	?	ne.			2		0							blue sky.
H. M. S. Diamond, S. 39° 25′, E. 68° 18′	30.17	766.3	63	17.2	72	wnw.			3		4							d. clouds.
H. M. S. Dido, N. 13° 05′, W. 59° 36′	30.07	763.8	79	26.1		ne.			2		4	wnw.				2	wsw.	d. clouds.
H. M. Dock-Yard, Bermuda, W. I.	29.88	758.9	64	17.8	62	w.			2		3	ene.						d. clouds.
H. M. S. Druid, N. 18° 28′, W. 78° 12′	30.05	763.3	73	22.8	97	calm			6–7		3	wnw.						d. clouds.
H. M. S. Dwarf, S. 34° 35′, W. 58° 19′	30.16	766.1	56	13.3	93	ssw.			0		3	s.						d. clouds.
H. M. S. Eclipse, S. 15° 01′, E. 40° 45′	29.80	756.9	84	28.9		ese.			1		0					1	ssw.	blue sky.
H. M. S. Espiegle, S. 39° 44′, E. 44° 29′	29.80	756.9	69	20.6	79	w.			2		3							d. clouds.
H. M. S. Flying Fish, N. 34° 41′, E. 135° 12′	30.21	767.3	38	3.3	80	nw.			2		7					4	nw.	d. clouds.
H. M. S. Gannet, S. 30° 45′, W. 92° 00′	30.23	767.8	69	20.6	70	e.			1		4	nw.						misty.
H. M. S. Garnet, Keppel Sd., Falkland Ids.	29.47	748.5	52	11.1	93	nnw.			5–6		10					4	e.	squally.
H. M. S. Inconstant, N. 4° 30′, E. 106° 30′	29.87	758.7	81	27.2	78	nnw.			1		6							d. clouds.
H. M. S. Iris, N. 32° 12′, E. 27° 41′	30.21	767.3	65	18.3	78	nnw.			3		3	n.				2	n.	d. clouds.
H. M. S. Iron Duke, N. 22° 16′, E. 114° 10′	30.23	767.8	53	11.7	86	ese.			2		7	ese.				1	ese.	d. clouds.
H. M. S. Liffey, Coquimbo, Chili	29.92	760.0	63	17.2		ne.			1		10	ne.						overcast.
H. M. S. Magpie, N. 22° 52′, E. 116° 15′	30.26	768.6	55.5	13.1	76	n.			1		6							d. clouds.
H. M. S. Malabar, N. 38° 04′, W. 9° 28′	30.23	767.8	58	14.4	87	ne.			2–3		10					4	e.	misty.
H. M. S. Rambler, N. 8° 40′, E. 9° 25′	29.88	758.9	84	28.9		nne.			2–3		3	nne.				4	wnw.	d. clouds.
H. M. S. Rocket, Vancouver Id.	30.47	773.9	30	−1.1	100	ssw.			3		2					2	ssw.	d. clouds.
H. M. S. Sea Gull, S. 2° 13′, E. 40° 59′	29.29	744.0	81	27.2	95	nnw.			1		5							d. clouds.
H. M. S. Thalia, N. 9° 31′, W. 26° 13′	29.98	761.5	78	25.6		e.			3–4		3	ne.						d. clouds.
H. M. S. Triumph, S. 30° 43′, W. 92° 09′	30.32	770.1	71	21.7	75	nne.			4		8					2	nne.	d. clouds.
H. M. S. Tyne, N. 7° 47′, E. 107° 40′	30.00	762.0	79	26.1	95	ese.			4–6		8	se.				5	e.	squally.
H. M. S. Woodlark, Bombay, India	30.02	762.5	75.5	24.2	72	ne.			5–6		5	ne.				5	ne.	d. clouds.
PORTUGUESE NAVAL.																		
Quanza, B avista, Cape Verd Ids.	30.04	763.1	74.3	23.5	79	ene.			4		7		sw.			3	ene.	d. clouds.
UNITED STATES NAVAL.																		
Navy Yard, Pensacola, Fla.	30.03	762.7	68	20.0	90	e.	2	0.9			5		sw.	0	0			fair.
Navy Yard, Portsmouth, N. H.	30.09	764.3	34	1.1	71	nw.	5	2.2			0			0	0			clear.
Naval Hospital, Yokohama, Japan	29.83	757.7	37.5	3.1	39	ne.			4		8		wsw.	0.16	4.1			cloudy.
Adams, Callao, Peru	29.66	753.4	66	18.9	100	sse.			0–1		10					gr'd		foggy.
Alaska, Valparaiso, Chili	29.79	756.7	63	17.2	72	calm			0		0			0	0	sm'h		clear.
Alert, Labuan, Borneo*	29.79	756.7	80	26.7	82	nne.			3		8		nne.	0	0	sm'h		cloudy.
Alliance, N. 19° 50′, W. 64° 00′	30.04	763.0	77	25.0	77	ese.			2		2		ese.	light	light	sm'h		clear.
Ashuelot, Tientsin, China	30.43	772.9	36	2.2	61	sw.			2		0							clear.
Brooklyn, Port Stanley, Falkland Island	29.47	748.5	49	9.4	93	w.	3	1.3			10		w.	1.15	29.2	sm'h		cloudy.
Colorado, New York, N. Y.	30.15	765.8	36	2.2	70	nw.	10	4.5			0			0	0			hazy.
Enterprise, N. 30° 18′, W. 72° 32′*	30.14	765.5	66	18.9	79	nne.			3		2		nne.			sm'h	n.	clear.
Essex, Porto Grande, Cape Verd Islands	30.07	763.8	70	21.1	70	ne.			4		2		ne.			long	ne.	fair.
Franklin, Norfolk, Va.	30.20	767.1	45	7.2	68	ne.	5	2.2			5		nnw.	0	0			fair.
Galena, Villafranca, France	30.04	763.0	60	15.6	65	se.			2		0					long	s.	clear.
Independence, Navy Yard, Mare Island, Cal	30.14	765.5	45	7.2	76	w.			4		0			0	0			clear.
Kearsarge, New Orleans, La.	30.00	762.0	68	20.0	95	s.			1									dense fog.
Lackawanna, Valparaiso, Chili†	30.05	763.3	58	14.4	100	ne.			1		10		ne.					cloudy.
Lancaster, Smyrna, Turkey*	30.16	766.1	73	22.8	45	sse.			1		2		calm	0	0	sm'h		hazy.
Marion, S. 33° 54′, E. 18° 24′*	29.74	755.4	72	22.2	71	sw.			2		0					sm'h		clear.
Michigan, Erie, Pa.	29.99	761.7	41	5.0	100	e.			2		10		w.					cloudy.
Minnesota, Newport, R. I.	30.11	764.8	39	3.9	64	n.	8	3.6			0							clear.
Monocacy, Yokohama, Japan	30.05	763.3	39	3.9	64	n.			3		8		n.					fair.
New Hampshire, Newport, R. I.	30.03	762.7	41	5.0	65	n.										mod.		
Nipsic, N. 41° 37′, W. 9° 01′	30.25	768.3	57	13.9	69	ssw.			1		2		sw.			long	nnw.	clear.
Onward, Callao, Peru†	30.02	762.5	65	18.3	100	calm			0		10		nnw.			long	w.	foggy.
Palos, Tungao Road, China	30.30	769.6	53	11.7	93	ne.			1		10		ne.					overcast.
Passaic, Washington, D. C.	30.23	767.8	38	3.3	81	sw.			1		2							clear.
Pensacola, Caldera, Chili	29.95	760.7	61	16.1	88	nnw.			1		10			0	0	sm'h		cloudy.
Powhatan, Basse Terre	30.06	763.5	77	25.0	73	ne.			2		2		ne.					fair.
Quinnebaug, Smyrna, Turkey	30.19	766.8	66	18.9	89	w.			2		2		calm	0	0	sm'h		fair.
Ranger, Acapulco, Mexico*	29.83	757.7	75	23.9	86	calm			0		2		calm	0	0	sm'h		clear.
Richmond, Yokohama, Japan*	29.92	760.0	43	6.1	43	nne.			3		5		ne.	0.02	0.5			fair.
Shenandoah, S. 7° 35′, W. 30° 52′*	30.04	763.0	82	27.8	75	e.			3		2		e.			long	e.	fair.
St. Louis, League Island	30.40	772.1	35	1.7	80	calm	0	0			0			0	0			clear.
Swatara, Yokohama, Japan*	29.82	757.4	40	4.4	48	nne.			3		5		nnw.			mod.	ne	fair.
Tennessee, N. 32° 00′, W. 79° 51′†	30.11	764.8	65	18.3	89	sw.			3		0			0	0	sm'h	sw.	hazy.
Vandalia, Havana, Cuba*†	30.25	768.3	65	18.3	89	calm			0		2		calm					fair.
Wabash, Boston, Mass.	30.05	763.3	33	0.6	70	n.	3	1.3			0			0	0			clear.
Wachusetts, Sitka, Alaska	30.09	764.3	37	2.8	90	ese.			.3		10		calm			sm'h		snowing
Wyoming, Port Royal, S. C.	30.10	764.5	57	13.9	94	calm	0	0			2		sw.	0	0			hazy.
Yantic, Off Pensacola, Florida*	30.00	762.0	71	21.7	85	sw.			1		5					sm'h		fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.			Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Amount and kind.		Direction.						
								Force.	Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	From.	From.	Inch.	Mill.			
ALLEN LINE.																	
S. S. Circassian, N. 54° 10′, W. 16° 35′	29.53	750.0	51	10.6	86	wsw.			5		8		w.	6 h'r	6 h'r	4	wsw.	raining.
S. S. Nova Scotian, N. 43° 11′ W. 59° 57′	29.43	747.5	33	0.6		nne.			4		2		nne.			mod.	sw.	fair.
S. S. Peruvian, Liverpool, England*	29.18	741.2	36	2.2		sw.			6		9		nw.	rain	rain			cloudy.
S. S. Prussian, Boston, Mass*	30.08	764.0	40	4.4		nw.			1		2		nw.					clear.
S. S. Scandinavian, N. 54° 51′, W. 11° 53′*	29.21	741.9	52	11.1		sw.			5		4		w.	sh'rs	sh'rs	high	cross	showery.
S. S. Waldensian, N. 44° 37′, W. 45° 30′*	29.53	750.0	48	8.9		w.			4		2		w.	0	0	long		clear.
AMERICAN STEAMSHIP COMPANY.																		
S. S. Illinois, Off Cape Henlopen, Del	30.10	764.5	45	7.2	92	wnw.			4		10?		sw.					clear?
S. S. Indiana, N. 39° 35′, W. 67° 54′†	29.73	755.1	38	3.3	81	nnw.			7		8		w.	h'vy	h'vy	r'gh	nw.	cloudy.
S. S. Ohio, N. 49° 33′ W. 25° 58′*†	29.73	755.1	52	11.1	100	w.			6		9		w.			r'gh	wsw.	cloudy.
ANCHOR LINE.																		
S. S. Devonia, N. 55° 13′ W. 12° 00′*†	29.21	741.9	53	11.7		wsw.			4		8		w.			h'vy	cross	fair.
S. S. Galatia, N. 47° 19′, W. 31° 36′†	29.90	759.4				sw.			5		9		sw.	2 h'r	2 h'r	long	wsw.	drizzling.
ATLAS LINE.																		
S. S. Ailsa, N. 26° 15, W. 74° 13′†	30.17	766.3	71	21.7	62	ene.			1		0			0	0	sm'h		fine.
S. S. Alvo, Savanilla, U. S. C	29.93	760.2	79	26.1		nne.			6		0			0	0			fine.
BOSTON AND HALIFAX LINE.																		
S. S. Carroll, N. 43° 24 W. 68° 30′†	30.08	764.0				ne.								snow	snow	cross	ne.	cloudy.
BRITISH METEOROLOGICAL OFFICE.																		
S. Auckland, S. 14° 24′, W. 30° 57′	30.01	762.2	81	27.2		ne.			3		4							blue sky.
S. Baroda, S. 43° 43′, W. 4° 42′	29.25	742.9	59.5	15.3	94	wnw.			6		8							misty.
Caldew, S. 12° 45′, W. 27° 47′	30.04	763.0	80.2	26.8		ene.			6		3							d. clouds.
S. S. Cipero, N. 47° 07′ W. 14° 32′	29.99	761.7	56	13.3	90	wsw.			3		5					2	wnw.	d. clouds.
Bk. Coppename, N. 29° 54′, W. 53° 20′	29.99	761.7	69	20.6	67	wsw.			5		3							blue sky.
Glenearn, N. 15° 26′, E. 94° 35′	29.94	760.5	82	27.8	67	w.			2		0							blue sky.
S. S. Gordon, N. 12° 33′, E. 47° 23′	29.99	761.7	81.8	27.7	65	ene.			6		0							blue sky.
S. S. Lochee, N. 6° 25′, W. 30° 40′	29.96	761.0	78	25.6	80	nne.			4		3							misty.
S. S. Minho, S. 13° 20′ W. 38° 31′	30.02	762.5	83.8	28.8	69	ne.			3		5							d. clouds.
Queen of Cambria, N. 6° 57′, E. 82° 08′	29.89	759.2	83	28.3	79	ene.			5		10							overcast.
BRISTOL CITY LINE.																		
S. S. Brooklyn City, N. 41° 30′, W. 55° 33′*†	29.57	751.1	56	13.3		ne.			3		6		n.	0	0	mod.	con.	fine.
CROMWELL LINE.																		
S. S. Hudson, N. 33° 00′, W. 47° 00′*†	30.15	765.8	69	20.6		ese.			3		1		se.	0	0	mod.	ne.	fair.
S. S. New Orleans, N. 37° 39′ W. 74° 00′*†	30.22	767.6	44	6.7		nne.					0					mod.	ne.	clear.
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. Canada, Havre, France	29.92	760.0	46.4	8.0		nw.			3		6		nw.	0	0			
St. Lawrent, N. 49° 30′, W. 8° 06′*†	29.76	756.0	53.6	12.0		wsw.			6					light	light	h'vy	wsw.	hazy.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Gellert, N. 42° 02′, W. 51° 30′*	29.36	745.7	47	8.3		n.			6		10			0	0	h'vy	n.	hazy.
S. S. Lessing, N. 49° 41′, W. 19° 35′*†	30.02?	762.5?	58	14.4		wnw.			4		8		nw.	0	0	long	wnw.	cloudy.
JOHNSTON LINE.																		
S. S. Thanemore, N. 51° 06′, W. 11° 22′	29.60	751.8				sw.			0		8		w.	sh'rs	sh'rs		nw.	hazy.
LEYLAND LINE.																		
S. S. Iberian, N. 51° 45′, W. 19° 28′						w.			6		3		w.	4 h'r	4 h'r	high	wnw.	
MALLORY LINE.																		
S. S. Colorado, N. 26° 00′, W. 80° 08′†.	30.10	764.5	69	20.6		ese.			2		1		ne.	0	0	mod.	ne.	clear.
MERCHANTS' EXPRESS LINE.																		
S. S. Freja, N. 40° 36′, W. 73° 13′*†	30.12	765.0	43	6.1	75	nnw.			3		0			0	0	sm'h		
MERCHANTS' STEAMSHIP COMPANY.																		
S. S. Glenfyne, N. 28° 40′. W. 62° 30′						w.			6		0			0	0	mod.	w.	clear.
NATIONAL LINE.																		
S. S. Erin, N. 49° 47′ W. 9° 40′	29.71	754.6	52	11.1		sw.			6		4		wsw.	2 h'r	light	hv'y	w.	
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Niagara, N. 34° 01′, W. 75° 29′*†	30.24	768.1	70	21 1		ene.			2		0			0	0	cross	ne.	clear.
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Alvena, N. 23° 25′, W. 74° 20′*†	30.03	762.7	72	22.2		se.			3								ene.	clear.
S. S. City of Washington, N. 25° 10′ W. 80° 00,*†	30.20	767.1	73	22.8		ene.			1							sm'h		clear.
S. S. Olbers, N. 50° 29′ W. 6° 30′*†	29.90	759.4	54	12.2		wsw.			5									showery.
S. S. P. Caland, N. 39° 30′ W. 57° 28′	29.33	745.0	51.8	11.0		w.			3							2	w.	fine.
NORTH GERMAN LLOYD.																		
S. S. Hermann, N. 46° 40′, W. 42° 29′*†	29.54	750.3	51.8	11.0		s.			2		8		sw.	2 h'r	2 h'r	long	sw.	misty.
S. S. Hohenzollern, S. 12° 23′, W. 35 41′*	29.96	761.0	83.8	28.8		ese.			3		1		ese.	0	0	1	ese.	clear.
S. S. Kronprinz F. Wilhelm, N. 49° 45′ W. 9° 36′	29.73	755.1	51.8	11.0		w.			5		10		sw.	0	0	5	nw.	misty.
S. S. Neckar, N. 40° 15′ W. 69° 40′	30.00	762.0	38.3	3.5		n.			5		8		nne.	0	0	r'gh	n.	cloudy.
S. S. Oder, N. 49° 14′, W. 30° 41′*	29.74	755.4	56.8	13.8		ssw.			3		4?		w.	0	0	mod.	w.	cloudy†.
S. S. Ohio, N. 47° 31′, W. 29° 46′	29.84	757.9				ssw.			3		10		sw.			r'gh	sw.	sprinkling.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Belgic, Hong Kong, China†	30.20	767.1	56	13.3	93	ne.			2		2		ne.	0	0			clear.
S. S. Gaelic, N. 35° 38′, E. 170° 05′†	29.94	760.5	61	16.1	71	w.			3		8		w.			high	w.	cloudy.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, N. 33° 16′ W. 78° 24′†	30.19	766.8				ese.			1		0			0	0	sm'h		smoky.
S. S. Seminole, Boston, Mass †	29.72	754.9	40	4.4		n.			1		5		nne.	0	0			fair.
OREGON IMPROVEMENT COMPANY.																		
S. S. Mississippi, San Francisco, Cal†	30.35	770.9	47	8.3	70	nnw.			1		0							clear.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. City of Chester, Columbia River, Oregon*†	30.48	774.2	42	5.6	66	wnw.			2		2		nw.					fair.
S. S. Oregon, San Francisco, Cal†	30.23	767.8	45	7.2	84	ne.			1		2		n.					clear.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, San Francisco, Cal†	30.27	768.8	46	7.8	69	calm			0		0							clear.
S. S. Geo. W. Elder, Port Townsend, W. T†	30.58	776.7	34	1.1		ne.			3		4		ne.	0	0			clear.
S. S. Idaho, N. 38° 18′, W. 123° 16′†	30.30	769.6	48	8.9	70	nw.			4		0					mod.	nw.	clear.
S. S. Orizaba, N. 33° 42′, W. 118° 14′†	30.12	765.0	51	10.6	?	nw.			3				nw.	0	0	light	sw.	clear.
S. S. State of California, N. 37° 50′, W. 122° 30′†	30.29	769.4	46	7.8	84	n.			4		0					sm'h	w.	clear.
S. S. Victoria, San Francisco Cal†	30.33	770.4	46	7.8	84	nw.			3		0							clear.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, S. 19° 36′, W. 174° 01′	29.81	757.2	78	25.6	86	sw.			1		5		se.	0	0	sm'h		clear.
S. S. City of Rio de Janeiro, N. 9° 54′, W. 85° 45′†	30.11	764.8	80	26.7	74	n.			2		0			0	0	long	n.	clear
S. S. City of Sydney, Sydney, N. S. W.†	30.09	764.3	67	19.4	84	s.			6		5		sw.			sm'h		sprinkling.
S. S. City of Tokio, N. 29° 07′, E. 129° 32′†	30.20	767.1	56	13.3	63	nw.			6		8		ne.	2 h'r	2 h'r	r'gh	ne.	fair.
S. S. Colima, N. 8° 46′, W. 84° 24′†	29.87	758.7	81	27.2	74	wnw.			3		2		wnw.	0	0	mod.	ssw.	clear.
S. S. Colon, N. 27° 02′, W. 74° 04′†	30.20	767.1	76	24.4		ne.			1		0					sm'h		clear.
S. S. Grenada, N. 33° 02′, W. 117° 47′†	30.10	764.5	54	12.2	100	var.			1		0			0	0	large	wnw.	clear.
S. S. South Carolina, San Jose, Guatemala†	29.93	760.2	75	23.9	77	calm			0		0			0	0	sm'h		
S. S. Zelandia, S. 16° 21′, W. 171° 51′	29.85	758.2	76	24.4	78	n.			1		0					sm'h		fine.
QUEBEC STEAMSHIP COMPANY.																		
S. S. Muriel, Martinique, W. I						ene.			3		0			0	0	sm'h		fair.
S. S. Bermuda, Humacoa, W. I†	30.12	765.0	78	25.6		n.			3		5		ene.	0	0			fine.
RED STAR LINE.																		
S. S. Belgenland, N. 46° 39′ W. 33° 45′†	29.87	758.7	61	16.1	61	s.			6		8		s.	2 h'r	2 h'r	mod.	wsw.	misty.
S. S. Rhynland, Portland, Eng	29.84	757.9	50	10.0	72	sw.			6		8		sw.	0	0	mod.	sw.	cloudy.
S. S. Switzerland, N. 46° 57′, W. 33° 35′†	29.76	755.9				ssw.			3		8		s.	2 h'r	driz.	long	wsw.	misty.
S. S. Vaderland, Antwerp, Belgium*†	29.36	745.7	40	4.4		ene.			2		5?		ene.	2 h'r	light			clear.
S. S. Waesland, Sandy Hook, N. J	30.22	767.6	40	4.4		n.			2		2			0	0			fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
										Upper.	Lower.	Upper.	Lower.					
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ROTTERDAM LINE.																		
S. S. Schiedam, N. 48° 51′, W. 30° 14′*	25.73	755.1	53.4	11.9	100	ssw.			4		9		wsw.	0	0	sm'h	ssw.	cloudy.
S. S. W. A. Scholten, Rotterdam, Holland*	29.63	752.6	51.9	11.1	96	sse.			8		8		s.	0	0			
THINGVALLA LINE.																		
S. S. Thingvalla, N. 40° 11′, W. 70° 47′†	30.11	764.8	39.2	4.0		nnw.			3		1		nnw.	0	0	r'gh	n.	clear.
WARREN LINE.																		
S. S. Iowa, N. 41° 53′, W. 65° 25′*†	29.81	757.2	33	0.6		n.			6		3		n.	1 h'r	snow	r'gh	nnw.	fair.
WHITE STAR LINE.																		
S. S. Celtic, Liverpool, Eng*†	29.38	746.2	47	8.3	92	sw.			6		10		sw.	0	0			cloudy.
S. S. Republic, N. 48° 08′ W. 35° 10′†	29.78	756.4	59	15.0	97	ssw.			5		8		ssw.	0	0	sm'h	sw.	misty.
WILSON LINE.																		
S. S. Salerno, N. 40° 45′, W. 70° 30′†	30.14	765.5				nnw.			4–5		0					sm'h		clear.
MISCELLANEOUS.																		
Sch. Addie Fuller, Cedar Keys, Florida†	30.22	767.6	63	17.2	89	ene.			2	0	0			0	0			clear.
Bk. Adelaide, N. 2° 47′, W. 30° 33′*†	30.00	762.0	78	25.6		sse.			4		10		sse.			mod.	cross	heavy rain.
Bk. Alpha, N. 26° 10′, W. 71° 40′*†	30.16	766.1	70	21.1		nne.			2		2		nne.	0	0	sm'h		fair.
Sch. Annie M. Law, N. 44° 20′ W. 49° 30′*†	29.50	749.3	46	7.8	69	wsw.			3		0			2 h'r	light	mod.	sw.	clear.
Sch'r Annie R. Lewis, N. 34° 30′, W. 71′ 10*′†	30.07	763.8	59	15.0		nw.			6		5		n.	0	0	h'vy	n.	fair.
Sch'r Annie M. Smull, N. 3° 06′ W. 27° 15′*†	29.90	759 4	82	27.8		ne.							ne.	0	0		se.	clear.
Bk. Bergenseren, N. 34° 08′ W. 53° 34′†	29.52	749.8				wsw.			9				wsw.	light	light	8	wsw.	threatening
Bk. Celestina, N. 33° 07′, W. 43° 03′*†	30.05	763.3				s.			4		6		sw.	0	0	con.	s.	fair.
Bk. E. L. Pettingill, S. 46° 06′, W. 78° 56′†	30.20	767.1				w.			4		5		w.	light	light	long	r'gh	
S. Enoch Train, Bremerhaven, Germany*.....[Bay†	29.59	751.6				wsw.			4		5		wsw.	sh'rs	shr's			fine.
U.S.F.C.S.S.Fish Hawk,Cherrystone Inlet,Ch esapeake	30.31	769.9	51	10.6	75	ne.			2		2		w.	0	0			clear.
Bk Freya, N. 24° 44′, W. 66° 46′			71	21.1		nnw.			1		2		n.	0	0	mod.	nw.	fair.
S. Grecian, N. 33° 59′ W. 14° 19′*†	30.30	769.6	58	14.4		n.			4		0			0	0	mod.	nw.	clear.
Bk. Geo. Booth, S. 28° 39′, W. 27° 30′*†.	30.00	762.0				nnw.			1					0	0	sm'h		clear.
Bk. Granville, N. 3° 26′, W. 28° 04′*†.	30.12	765.0				nne.			1				se.	0	0	sm'h		c oudy.
Schr. Henry Denison, N. 23° 16′, W. 62° 33′†	30.08	764.0				var.			0–1		1		sw.	0	0	long	nw.	fair.
Bk. Johanne Auguste, S. 30° 31′, E. 83° 09′*	29.86	758.4				ese.			4		8		e.	3 h'r	light	mod.	e.	rainy.
Bk. Kate Cann, N. 41° 11′, W. 50° 00.						nnw.			6		10		nnw.	2 h'r	2 h'r	r'gh	n.	overcast.
Bkt. Kryolith, N. 37° 28′, W. 51° 12′*†	29.44	747.8				wsw.			6		2		wsw.	shr's	shr's	hv'y	wsw.	fair.
S. S. Lamperts, N. 37° 09′ W. 61° 38′*	29.45	748.0	56.2	13.4	81	wnw.			7		8					5		fogky.
Schr. Maggie Abbott, N. 32° —′ W. 73° —′*†	30.08	764.0				n.			4					0	0	mod.	wnw.	clear.
S. S. Malabar, Baltimore, Md°†	29.87	758.7				s.			3		8		ssw.	driz	driz			hazy.
Bk. Pawashick, N. 16° 05′, W. 55° 57′*†	30.35	770.9	75	23.9	86	e.			3		2		e.			sm'h	e.	fine.
Bk. Peppina, N. 40° 44′, E. 18° 25′†	30.07	763.8	58	14.4	88	s.			5		5?		sw.			rg'h	s.	cloudy†.
Bk Pilgrim, S. 43° 47′, E. 16° 35′*†	29.85	758.2				wsw.			3		5		w.	0	0	long	wsw.	fair.
Schr. S. B. Hubbard, Jacksonville, Florida*†.	30.11	764.8	75	23.9		calm			0		0			0	0			fine.
Bk. Stella, S. 43° 34′, W. 53° 12′*†	29.80	756.9	59.0	15.0	92	w.			4		3		sw.			rg'h	sw.	d clouds.
Bk. Sunbeam, N. 21° 30′, W. 53° 47′*†	30.16	766.1	78	25.6	82	e.			1		0			0	0	mod	e.	clear.
S. Wm. Woodbury, Bremerhaven, Germany*†	29.50	749 3	45	7.2	68	w.			4				w.					



Data, as appearing in the International Bulletin of similar date.

Isobars in *black* exhibit atmospheric pressure at sea-level, and are charted from data as reported by the several observers.

Isotherms in *red* exhibit temperature of air, similarly charted.

Broken or dotted lines indicate that the lines so broken are doubtful.

Arrows, when charted, fly with the wind and exhibit wind-direction and force.

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W. B. Hazen

Brig. & Bvt. Maj. Gen'l.
Chief Signal Officer. U. S. A.

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INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON MARCH 6, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
ALGERIAN.																			
Nemours	.....	.....	30.27	768.9	65.5	18.6	83	w.	.....	.....	3	.....	0	.....	.....	0	0	clear	Moiroud.
Algiers	.....	.....	30.24	768.0	56.5	13.6	92	nw.	.....	.....	1	.....	10	.....	.....	0.354	9.0	covered	Nicolas.
La Calle	.....	.....	29.93	760.3	53.2	11.8	91	nw.	.....	.....	7	.....	5	.....	.....	2.401	62.5	cloudy	Foufrède.
Tunis	.....	.....	29.76	755.9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.28	769.0	51.4	10.8	72	n.	.....	.....	2	.....	2	.....	.....	0	0	fair	Dumas.
Tebessa	.....	.....	30.04	763.0	45.7	7.6	64	nw.	.....	.....	8	.....	7	.....	.....	0	0	very cloudy	Dereché.
Geriville	.....	.....	.....	.....	46.0	7.8	57	nw.	.....	.....	2	.....	1	.....	.....	0.134	3.4	very fair	Louchamp.
Laghouat	.....	.....	30.27	768.9	52.5	11.4	66	w.	.....	.....	3	.....	1	.....	.....	0	0	very fair	Herbin.
Biskra	.....	.....	30.11	764.7	56.5	13.6	67	n.	.....	.....	7	.....	3	.....	.....	0.008	0.2	pretty fair	Malau.
AUSTRALIAN.																			
Melbourne, Victoria	29.85	758.2	29.94	760.5	66.6	19.2	65	e.	3	1.3	.....	.....	7	.....	.....	0	0	fine	R. L. J. Ellery.
AUSTRO-HUNGARIAN.																			
Agram	29.42	747.2	29.98	761.4	46.6	9.2	55	se.	.....	.....	1	.....	4	.....	.....	0	0	.....	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.13	739.9	29.89	759.3	55.0	12.8	43	sew.	13.6	6.1	.....	.....	1	.....	.....	0	0	.....	Dr. Wierzbiski.
Eperies	29.06	738.1	29.94	760.5	50.0	10.0	59	s.	.....	.....	5	cs	5 s	.....	n.	0	0	.....	Julius Mikolik.
Gratz	28.72	729.5	29.98	761.4	51.4	10.8	52	sw.	.....	.....	1	.....	0	.....	.....	0	0	.....	Andreas Rospini.
Hermannstadt	28.59	726.1	29.98	761.6	60.1	15.6	48	s.	.....	.....	4	.....	6	.....	.....	0.047	1.2	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.63	727.1	29.98	761.6	47.1	8.4	66	nw.	.....	.....	1	.....	2	.....	.....	0	0	clear	The Staff.
Lemberg	28.95	735.2	29.93	760.3	51.1	10.6	57	sw.	.....	.....	2	.....	2	.....	.....	0	0	.....	Dr. T. Stanecki.
Pola	29.87	758.6	29.98	761.5	55.9	13.3	72	wnw.	.....	.....	1	.....	10	.....	.....	0	0	.....	I. R. Hydrographic Office.
Szathmar	29.54	750.4	30.01	762 2	57.0	13.9	46	e.	.....	.....	2	.....	2	.....	.....	0	0	.....	Joseph Midlinszky, S. J.
Szegedin	29.71	754.5	29.98	761.6	58.6	14.8	68	s.	.....	.....	1	.....	5	.....	.....	0.008	0.2	.....	Karl Stancel.
Trieste	29.92	760.0	30.02	762.6	52.9	11.6	71	calm	.....	.....	0	.....	4	.....	.....	0	0	.....	Rieder.
Vienna	29.26	743.2	29.98	761.5	51.1	10.6	61	ne.	.....	.....	1	.....	0	.....	.....	0	0	.....	I. R. Central Met. Obs'y.
BRITISH.																			
Aberdeen	29.48	748.8	29.58	751.3	35.6	2.0	68	w.	43	19.2	.....	.....	6	.....	.....	0.255	6.5	snowy	W. Boswell.
Armagh, Observatory	29.70	754.4	29.95	760.7	42.6	5.9	75	nw.	11	4.9	.....	.....	7	.....	.....	.....	.....	d. clouds	S. Call.
Bidston, Liverpool Obs'y	.....	.....	29.88	758.9	44.0	6.7	75	w.	36	16.1	.....	.....	8	.....	.....	.....	.....	overcast	John Hartnup.
Bolton, Sharples	29.34	745.2	29.88	758.9	39.6	4.3	75	nw.	18	8.0	.....	.....	10	.....	.....	.....	.....	hailing	Thomas Mackereth. [A.S.
Bradford, Yorkshire	29.42	747.3	29.81	757.2	40.0	4.4	91	nw.	.....	.....	5	.....	6	.....	.....	0.02	0.5	d. clouds	J. McLandsborough, F. R
Bridgetown, Barbadoes	29.98	761.5	30.01	762.2	83.0	28.3	64	ne.	.....	.....	3	.....	3	.....	.....	.....	.....	d. clouds	Pvt. J. Surgenor, A. H.C.
Cardington	.....	.....	29.90	759.4	47.4	8.6	54	nw.	.....	.....	1.0	.....	10	.....	.....	.....	.....	overcast	John McLaren.
Chatham, School M. E	29.76	755.9	29.89	759.2	48.5	9.2	49	nw.	.....	.....	1	.....	8	.....	.....	blank	blank	d. clouds	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	29.84	757.9	30.07	763.8	50.2	10.1	64	nw.	.....	.....	3	.....	10	.....	.....	.....	.....	overcast	The Staff.
Fort Napier, Natal	27.68	703.1	29.90	759.4	85.0	29.4	46	calm	.....	.....	0	.....	4	.....	.....	.....	.....	.....	Pvt. E. K Annis, A. H.C.
Free Town, Sierra Leone	29.63	752.6	29.86	758.4	87.0	30.6	62	nw.	.....	.....	1	.....	2	.....	.....	.....	.....	blue sky	Sergt. John Robinson.
Galway, Queen's College	.....	.....	29.92	760.0	.....	.....	.....	s.	.....	.....	1	.....	8	.....	.....	0.09	2.3	gloomy	J. O'Donaghue.
Gibraltar, Mediterranean	30.24	768.1	30.30	769.6	65.9	18.8	76	w.	.....	.....	2	.....	0	.....	.....	.....	.....	blue sky	Opl. O. Baldwin.
Glasgow, Observatory	29.56	750.8	29.76	755.9	39.6	4.2	47	wnw.	.....	.....	7	.....	7	.....	.....	.....	.....	snowing	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.73	755.1	29.91	759.7	49.2	9.6	56	nw.	.....	.....	3	.....	8	.....	.....	.....	.....	d. clouds	The Staff.
Guernsey	29.74	755.4	30.04	763.0	50.0	10.0	86	wnw.	.....	.....	1	.....	7	.....	.....	blank	blank	d. clouds	A. Collenette, F. M. S.
Kew, Observatory	29.88	758.9	29.92	760.0	48.6	9.2	42	wnw.	19	8.5	.....	.....	9	.....	.....	.....	.....	d. clouds	The Staff.
Leicester, Museum	29.62	752.3	29.88	758.9	46.0	7.8	92	nw.	.....	.....	1	.....	5	.....	.....	.....	.....	blue sky	J. C. Smith.
Malta, Mediterranean	29.53	750.0	29.60	751.8	58.6	14.8	74	sw.	.....	.....	3	.....	10	.....	.....	.....	.....	overcast	I. H. Whysall.
Nassau, Bahamas	30.21	767.3	30.25	768.3	72.2	22.3	75	ne.	.....	.....	1	.....	4	.....	.....	.....	.....	d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.38	746.2	29.91	759.7	44.0	6.7	60	w.	.....	.....	3	.....	7	.....	.....	.....	.....	d. clouds	John Mac Email.
Oxford, Radcliffe Obs'y	29.70	754.4	29.93	760.2	46.6	8.1	51	w.	.....	.....	5	.....	10	.....	.....	.....	.....	squally	The Staff.
Plymouth	29.95	760.7	30.03	762.7	51.3	10.7	72	nw.	.....	.....	2	.....	10	.....	.....	.....	.....	overcast	John Merrifield.
Sandwick Manse, Orkneys	.....	.....	29.57	751.1	30.3	— 0.9	100	nw.	40	17.9	.....	.....	6	.....	.....	.....	.....	rain & hail	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	30.06	763.5	30.13	765.3	57.4	14.1	69	sw.	.....	.....	1	.....	1	.....	.....	.....	.....	blue sky	W. H. Lyne.
Sheffield	29.58	751.3	29.86	758.4	46.1	7.8	64	w.	.....	.....	2	.....	8	.....	.....	0.01	0.3	overcast	W. F. Cooper.
Silloth Rectory	29.78	756.4	29.80	756.9	43.0	6.1	56	nw.	.....	.....	5	.....	5	.....	.....	0.115	2.9	squally	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	29.87	758.7	40.0	4.4	73	wnw.	21	9.4	.....	.....	7	.....	.....	.....	.....	squally	R. S. J. Perry.
Stratfield Turgiss	29.73	755.1	29.95	760.7	48.5	9.2	56	nw.	.....	.....	3	.....	4	.....	.....	.....	.....	squally	Rev. C. H. Griffiths, F.M.S.
Truro, Royal Institution	30.07	763.8	30.12	765.0	55	12.8	62	nw.	.....	.....	4	.....	4	.....	.....	.....	.....	d. clouds	W. Newcombe.
Valencia, Observatory	29.99	761.7	30.01	762.2	49.3	9.6	53	w.	9	4.0	.....	.....	6	.....	.....	blank	blank	misty	The Met'g'l Office.
CANADIAN.																			
Charlottetown, P. E. Island	30.00	762.0	30.05	763.3	24	— 4.4	89	n.	6	2.7	.....	2 cs	5 s	w.	w.	0	0	clearing	H. J. Cundall, C. E.
Chatham, N. B*	30.06	763.5	30.12	765.0	21	— 6.1	91	ne.	8	3.6	.....	8 ck	8 ks	ne.	ne.	0	0	cloudy	G. A. Blair.
Father Point, Quebec*	30.14	765.5	30.16	766.1	11	—11.7	91	ne.	18	8.0	.....	.....	8 s	.....	ne.	0	0	cloudy	J. McWilliams.
Fort Garry, Manitoba*	29.65	753.1	30.61	777.5	—12	—24.4	100	n.	18	8.0	.....	0	0	.....	.....	0.127	3.2	clear	James Stewart.
Halifax, N. S*	29.93	760 2	30.07	763.8	27	— 2.8	88	calm	0	0	.....	.....	10 ks	.....	.....	0	0	cloudy	A. Allison.
Kingston, Ontario*	29.44	747.8	29.79	756.7	36	2.2	96	sw.	6	2.7	.....	.....	fg	.....	.....	0.04	1.0	dense fog	A. P. Knight, M. A.
Montreal, Quebec*	29.60	751.8	29.81	757.2	32	0.0	96	e.	2	0.9	.....	.....	fg	.....	.....	0.02	0.5	foggy	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.09	738.9	29.80	756.9	33	0.6	88	nw.	6	2.7	.....	2 k	5 ks	nw.	nw.	0.01	0.3	fair	Rev. R. Mosley.
Port Dover, Ontario	29.15	740.4	29.86	758.4	38	3.3	91	calm	0	0	.....	10 k	0	sw.	.....	0.11	2.8	cloudy	H. Morgan.
Port Stanley, Ontario	29.21	741.9	29.87	758.7	36	2.2	89	n.	2	0.9	.....	.....	10 ks	.....	sw.	0.08	2.0	cloudy	M. Payne.
Quebec, Quebec*	29.60	751.8	29.94	760.5	21	— 6.1	100	ne.	.....	8	.....	.....	1c n	.....	ne.	0.127	3.0	light snow	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.31	744.5	29.78	756.4	30	— 1.1	88	calm	0	0	.....	.....	10 n	.....	.....	inap.	inap.	light snow	W. H. McIntyre.
Saugeen, Ontario*	29.10	739.1	29.84	757.9	34	1.1	85	sw.	1	0.4	.....	.....	10 ks	.....	.....	0.12	3.0	cloudy	
St. Andrews, N. B	29.94	760.5	29.99	761.7	34	1.1	89	s.	1	0.4	.....	.....	10 n	.....	.....	0.04	1.0	light snow	
Sydney, C. B*	29.96	761.0	30.02	762.5	25	— 3.9	84	calm	0	0	.....	10 k	0	nw.	.....	0	0	cloudy	G. Murdock, C. E.
Toronto, Ontario*	29.48	748.8	29.87	758.7	34	1.1	96	w.	4	1.8	.....	.....	10 s	.....	w.	0.06	1.5	cloudy	Magnetic Observatory.
Yarmouth, N. S*	29.95	760.7	30.02	762.5	31	— 0.6	92	se.	1	0.4	.....	10 k	0	w.	.....	0	0	cloudy	Lt. F. E. Wilmot, R. N.
Sub-series.																			
St. Johns, Newfoundland	29.63	752.6	29.90	759.4	18	— 7.8	.....	w.	3	1.3	.....	0	0	.....	.....	0.50	12.7	.....	John Delany.
CAPE COLONY.																			
Cape St. Francis Lt. House	30.02	762.5	30.05	763.3	67.5	19.7	85	sw.	6.5	2.9	.....	0	3 s	.....	.....	0	0	hazy	John Duthie.
Cape Town, C. G. H. Obs'y	30.03	762.7	30.07	763.8	84.5	29.2	45	se.	5	2.2	.....	2	2	.....	.....	0	0	.....	The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
CHINESE (*Sub-series*).																			
Hankow	30.30	769.6	30.58	776.7	44.9	7.2	80	ese.			2		10			0	0		N. Titoushkin.
Zi-Ka-Wei, near Shanghai.	30.40	772.2	30.43	772.8	35.8	2.1	79	e.	2.7	1.2		6 ck	0			0	0	cloudy	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	29.30	744.1	29.34	745.3	43.3	6.3	79	wnw.	26.8	12			9					raining	Oversergent Fischer.
Fanöe	29.40	746.8	29.42	747.3	43.3	6.3	75	wnw.			6		2						Overloerer Lauridsen.
Godthaab, Greenland	29.24	742.6	29.28	743.7	12.6	—10.8		n.			4		1c					snowing	S. Kleinschmidt.
Stykkisholm, Iceland	29.50	749.2	29.54	750.3	6.4	—14.2	92	e.			6		2						A. O. Thoriacius
Thorshavn	29.59	751.5	29.62	752.4	17.6	— 8.0	77	nw.	21.3	9.5			7					snowing	Overloerer Bergh.
Vestervig	29.15	740.5	29.24	742.8	40.3	4.6	71	wnw.			7		1						Loerer Oesterbol.
FRENCH.																			
Agen, Normal School	29.54	750.3	30.20	767.1	54.0	12.2	90	calm			0		k, kn			0.035	0.9		M. Labroue, Director.
Alençon, Normal School	29.52	749.9	30.08	763.9	55.0	12.8	70	sw.			2		n		ne.	0.016	0.4		M. Nicot, Director.
Arras, Engineer School	29.63	752.7	29.89	759.3	51.6	10.9	75	nw.			4		10		nw.	0.091	2.3	covered	M. Klein, Commandant.
Avignon, Normal School	30.00	762.0	30.08	764.0	59.0	15	48	n.			2		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.43	747.6	29.99	761.8	53.6	12.0	65	w.			1		8			0.059	1.5	very cloudy	M. Saillard, Director.
Beauvais, Normal School	29.70	754.3	29.96	761.0	54.7	12.6	63	w.			4		8		wnw.	0.028	0.7	very cloudy	M. Frère Eugène Marl.
Besançon, Normal School	29.28	743.8	30.19	766.8	49.1	9.5	79	s.			1		n		se.	0.047	1.2		M. Gobin, Director.
Bordeaux, Observatory	29.91	759.8	30.18	766.5	57.4	14.1	57	nw.			1		10			0.055	1.4	covered	M. Rayet, Director.
Bourges, Normal School	29.50	749.2	30.05	763.3	53.6	12	76	w.			2		kn		w.	0.122	3.1		M. Postel, Director.
Brest, Naval Observatory	29.86	758.5	30.10	764.6	55.0	12.8	79	nne.			1		6		nne.	0.047	1.2		M. de Kermaree, Dir.
Caen, Normal School	29.90	759.5	29.98	761.5	56.8	13.8	69	w.			2		1c		w.	0.020	0.5	covered	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.60	751.7	29.92	759.9	50.7	10.4	86	sw.			2		8	s.	w.	0.016	0.4	very cloudy	M. Jadot, Director.
Charleville, Normal School	29.39	746.5	29.90	759 5	48.9	9.4	73	w.			3		10		e.	0,138	3.5	raining	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.73	729 8	30.08	764.0	57.9	14.4	57	w.			2		5		wsw.	0	0	½ covered	M. Alluard, Director.
Cluny, Normal School	29.23	742.5	30.08	764.1	51.8	11	80	s.			2		2		s.	0	0		M. de Villemontée, Dir.
Commercy, Normal School.	29.11	739.4	29.99	761.7	53.8	12.1	70	w.			1	c	n	w.	w.	0.04	1	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.43	696.7	29.98	761.4	50.5	10.3	48									0	0		M. Jeangirard, Director.
Grèasque, du. Rhone	28.88	733.5	30.01	762.2	54.5	12.5	54	nw.			2		1		nw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.31	744.4	30.08	764.0	55.0	12.8	57	e.			1	0	2 s			0	0	slightly cl'dy	M. Ablard, Director.
Guéret, Normal School	28.52	724.4	30.12	765.0	47.8	8.8	66	w.			2		10 n		w.	0.063	1.6	raining	M. Rivoire, Director.
Lambalie, Normal School	29.83	757.7	30.11	764.7	52.7	11.5	78	nw.			2		8		nw.	0	0	very cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.60	751.9	30.17	766.4	49.1	9.5	80	w.			1		10			0.043	1.1	covered	M. Chauvin, Director.
Lorient, Naval Observatory	30.03	762.7	30.13	765.3	56.3	13.5	93	w.			4		5		w.	0.047	1.2	½ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.06	738.2	30.13	765.3	49.6	9.8	61	se.			1		8		nw.	0.004	0.1	hazy	M. André, Director.
Mans, Normal School	29.76	756.0	30.08	763.9	52.7	11.5	74	nw.			1		8		nw.	0.047	1.2	very cloudy	M. Piboen, Director.
Marseille, Observatory	29.75	755.6	30.02	762.5	58.8	14.9	47	nw.			1		3		nw.	0	0		M. Stephan, Director.
Montlouis l'Instituteur	24.88	632.0	29.72	755.0	41.0	5.0	71	wnw.	5.6	2.5	2.3		0			0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.94	760.4	30.07	763.8	61.9	16.6	47	nne.			4		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.18	741.2	29.97	761.3	48.9	9.4	81	wsw.			1		1c kn			0	0	covered	M. Hasse, Director
Nantes, Observatory	29.97	761.2	30.13	765.2	58.8	14.9	76	wnw.			2-3		[1 o kn; n		wsw.	0.098	2.5		M. Larocque, Director.
Perpignan, Observatory	30.02	762.6	30.14	765.5	61.2	16.2	55	ne.	28.0	12.5			3		nw.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.25	539.7			24.3	— 4.3		n.			1		10		n.	0.583	14.8	snowy	Gen'l de Nansouty, Dir.
Privas, Normal School	29.02	737.1	30.09	764.2	56.5	13.6	43	s.			1		5	sw.	s.	0	0	cloudy	M. Taillieu.
Puy de Dôme Obs'y, Summit	25.12	638.1			32.9	0.5	100	w.			8		10			0.059	1.5	foggy	M. Alluard, Director.
Rochefort, Naval Obs'y	30.11	764.8	30.14	765.6	57.2	14.0	84	w.			2		8		w.	0.004	0.1	¾ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.92	759.9	30.13	765.4	54.7	12.6	83	nw.			1		5		w.	0	0	cloudy	M. Mouillot, Director.
Rodez, Normal School	28.00	711.2	30.19	766.9	44.2	6.8	91	nw.			1		10			0	0	covered	M. Serger, Director.
Rouen, Normal School	29.94	760.4	29.98	761.6	50.4	10.2	69	sw.			1		8			0	0	very cloudy	M. Platrier, Director.
Saint Maur, Observatory	29.83	757.6	29.99	761.8	54.3	12.4	64	w.			3		10		wnw.	0.020	0.5		M. Renou, Director.
Toulouse, Observatory	29.50	749.3	30.23	767.8	53.6	12.0	85	w.			3		10		nw.	0.217	5.5	covered	M. Bailland, Director.
Versailles, Observatory	29.50	749.3	29.99	761.8	53.2	11.8	63	nw.			3					0.031	0.8		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.70	754.4	29.99	761.8	54.0	12.2	68	w.			2		9		nw.	0.012	0.3		M. Marié Davy, Director
GERMAN.																			
Bamberg	29.06	738.0	29.91	759.6	45.1	7.3	60	wsw.			4	0	8 n		sw.	0.031	0.8	raining	Prof. Dr. Hoh.
Berlin	29.45	748.1	29.63	752.6	49.6	9.8	59	nw.			5		1c			0	0		Prof. Dr. Arndt.
Breslau	29.30	744.1	29.82	757.5	51.4	10.8	42	sw.			4		1			0	0		Royal University Obs'y.
Carlsruhe	29.51	749.5	29.95	760.7	48.9	9.4	74	sw.			3		10	sw.		0.024	0.6	raining	Albert Senz.
Cassel	28.99	736.3	29.70	754.4	51.4	10.8	64	sw.			6		8	w.		0.024	0.6		Dr. H. Möhl.
Frankfort on the Main	29.49	749.0	29.85	758.3	51.4	10.8	72	ssw.			3		7			0.004	0.1		Physical Society.
Friedrichshafen	28.58	725.8	30.02	762.6	50.5	10.3	64	wsw.			5		8	w.		0	0		Wilhelm, Chief Tel.
Hamburg	29.47	748.4	29.56	750.8	46.9	8.3	78	wnw.			7		10			0.063	1.6	stormy	E. Preller.
Kiel	29.46	748.3	29.48	748.7	45.3	7.4	71	w.			8		7			0.087	2.2		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.35	745.5	29.77	756.2	48.6	9.2	65	sw.			4		9	sw.		0	0	stormy	H. Leppig, Asst.
Magdeburg	29.48	748.8	29.67	753.6	49.6	9.8	74	sw.			5	0	9 ks		sw.	0.043	1.1		Dr. Assmann.
Memel	29.48	748.7	29.52	749.8	41.7	5.4	80	sw.			6		10 s						Issermann.
Munich	28.15	715.1	30.02	762.4	50.9	10.5	46	nw.			2		6	sw.		0	0		Central Station
Neufahrwasser	29.54	750.2	29.55	750.6	50.5	10.3	60	ssw.			6		9			0.024	0.6		A. Lothes.
Neustadt, Palatinate	29.36	745.8	29.89	759.1	50.5	10.3	73	sw.			4		9	sw.		0	0		Dicknether.
Stuttgart	29.00	736.7	29.91	759.6	50.5	10.3	63	w.			4		10			0.043	1.1	sprinkling	Prof. Dr. Schoder.
Wustrow	29.47	748.5	29.49	749.1	43.0	6.1	86	wsw.			4		10 s			0	0		Profs. Brandes & Reimer.
GREEK.																			
Athens	29.75	755.6	30.14	765.5	64.8	18.2		sw.			1.0		4			0	0	misty	Schmidt & Wourlisch.
INDIAN.																			
Bellary	28.42	721.9			91.2	32.9	11	se.	5.8	2.6		3 ck	3	sw.		0	0	d. clouds	
Kurrachee	30.01	762.1	30.06	763.4	85.0	29.4	50	nne.	16	7.2			0			0	0	blue sky	
Deesa								wnw.	7.2	3.2						0	0		
Bombay	29.88	759.0	29.92	759.9	78.5	25.8	66	nw.	17	7.6			0			0	0	blue sky	
Poona, Yarrowda	28.01	711.5	29.82	757.5	92.0	33.3	15	nne.	17	7.6			0			0	0	blue sky	
Belgaum	27.35	694.7	29.83	757.6	89.5	31.9	15	e.	9	4.0			0			0	0	blue sky	
Lahore	29.30	744.1	30.05	763.4	74.6	23.7	26	n.	2.0	0.9			0			0	0	blue sky	
Roorkee	29.01	736.7	29.91	759.6	80.2	26.8	20	nw.	1.5	0.7			1			0	0		
Agra	29.34	745.1	29.89	759.3	87.2	30.7	22	nw.	1.9	0.8			0			0	0		
Nagpur	28.85	732.8	29.87	758.7	93.0	33.9	26	calm	4.0	1.8			0			0	0	blue sky	
Jubbulpore	28.54	725.0	29.87	758.7	93.2	34.0	21	s.	3.5	1.6			3		se.	0	0	d. clouds	
Lucknow	29.54	750.4	29.91	759.8	91.1	32.8	18	wsw.	1.8	0.8			0			0	0	blue sky	
Allahabad	29.56	750.8	29.87	758.6	88.5	31.4	32	ne.	1.1	0.5			1			0	0	d. clouds	
Patna	29.69	754.2	29.88	758.9	86.6	30.3	39	nw.	3.3	1.5			0			0	0	blue sky	
Hazaribagh	27.88	708.2	29.88	758.8	83.8	28.8	35	w.	8.2	3.7			0			0	0	blue sky	
Cuttack	29.81	757.2	29.89	759.3	90.4	32.4	30	ssw.	0.6	0.3			2			0	0	d. clouds	
Calcutta, Alipore	29.85	758.2	29.87	758.7	86.5	30.3	45	sw.	1	0.4			0			0	0	blue sky	
Dhubri	29.74	755.4	29.86	758.5	77.6	25.3	46	calm	1.1	0.5			0			0	0	blue sky	
Chittagong	29.84	758.0	29.94	760.4	78.9	26.1	74	wsw.	2.1	0.9			0			0	0	blue sky	
Sibsagar	29.58	751.2	29.92	759.9	71.4	21.9	73	ne.	2.4	1.1			6	w.	w.	0	0	d. clouds	
Jeypore	28.49	723.5	29.92	760.0	84.3	29.1	23	ese.	9.3	4.2			5	ese		0	0	d. clouds	
Zanzibar, Africa	29.84	757.9			82.2	27.9	81	n.	8.8	3.9			4			0	0	d. clouds	
Trichinopoly	29.70	754.4			88.7	31.5	39	ese.	2	0.9			0			0	0	blue sky	
ITALIAN.																			
Udine	29.61	752.0	30.02	762.5	55.8	13.2	41	calm	0	0			0			0	0		Prof. Giovanni Clodig.
Milan	29.54	750.3	30.06	763.6	52.9	11.6	55	w.	3.1	1.4			3	wsw.		0	0		Prof. Schiaparelli.
Padua	29.90	759.5	30.01	762.3	54.0	12.2	52	ene.	0.7	0.3			0			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.13	740.0	30.06	763.4	50.9	10.5	52	ese.	1.3	0.6			5	e.		0	0		Prof. P. F. Denza.
Genoa	29.79	756.7	29.98	761.6	50.4	10.2	66	n.	11.2	5.0			0			0	0		Prof. G. M. Garibaldi.
Mondovi	28.12	714.3	30.06	763.6	45.1	7.3	57	w.			6		1	nw.		0	0		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
ITALIAN.—Continued.																			
Pesaro	29.90	759.5	29.95	760.7	51.3	10.7	90	n.	12.5	5.6			10			0.264	6.7		Prof. Luigi Guidi.
Florence	29.63	752.5	29.88	759.0	54.5	12.5	56	ne.			6		3			0	0		Prof. Costantino Pitter.
Leghorn	29.75	755.6	29.84	757.8	57.9	14.4	48	n.	5.6	2.5			4			0	0		Prof. P. Monte.
Rome	29.54	750.2	29.71	754.6	64.6	18.1	40	sse.	8.1	3.6			10			0.098	2.5		Prof. P. S. Ferrari.
Lecce	29.56	750.7	29.81	757.2	62.2	16.8	53	s.	42.3	18.9			10	s.		0	0		Prof. C. de Giorgi.
Cosenza	28.84	732.4	29.74	755.3	55.8	13.2	75	ssw.	3.1	1.4			10	sw.		0.244	6.2		Prof. D. Conti.
Cagliari	29.53	750.1	29.72	755.0	54.7	12.6	79	nw.			6		10			0.209	5.3		Prof. A. Pacinotti.
Palermo	29.35	745.6	29.61	752.0	52.3	11.3	74	se.	18.6	8.3			10			0.209	5.3		Prof. G. Ciaccialatore.
Syracuse	29.61	752.0	29.65	753.1	62.1	16.7	60	ssw.	18.6	8.3			10	e.		0	0		Prof. Vincenzo Guiliano.
Sub-series.																			
Naples, S. R	29.20	741.7	29.72	755.0	52.2	11.2	80	ne.	12.5	5.6			10	ne.		0.406	10.3		Prof. T. Brioschi.
Stelvio	22.07	560.5			25.9	— 3.4	50	se.			2		0			0	0	clear	Prof. P. F. Denza.
Valdobbia	22.10	561.3			27.9	— 2.3	70	n.			2		0			0	0	clear	Prof. P. F. Denza.
JAPANESE.																			
Aomori	30.13	765.3	30.17	766.3	30.1	— 1.1	95	w.	2.4	1.1			10 n			0.070	1.8	snowing	K. Ogawa.
Hakodate	30.12	765.0	30.13	765.3	29.8	— 1.2	54	ne.	1.8	0.8			10			0	0	overcast	
Hiroshima, I. M. Obs'y	30.25	768.3	30.27	768.8	34.8	1.6	78	nne.	5.3	2.4		0	0			0	0	clear	K. Sasaki.
Kanazawa	30.19	766.8	30.30	769.6	32.9	0.5	71	se.	7.9	3.5		ck	10 ks		w.	0.010	0.3		S. Endo.
Kioto	30.09	764.3	30.28	769.1	36.4	2.4	70	nw.	2.5	1.1		ck	8 s			0	0	cloudy	M. Tojima.
Kochi	30.24	768.1	30.26	768.6	41.1	5.1	62	e.	5.2	2.3		0	0			0	0	clear	
Nagasaki, I. M. Obs'y	30.07	763.8	30.28	769.1	42.1	5.6	69	n.	0.4	0.2		0	0			0	0	clear	S. Takehayashi.
Niigata	30.21	767.3	30.25	768.3	32.5	0.3	96	sw.	4.2	1.9		ck	9 ks	sw.	sw.	0.250	6.4	cloudy	
Nobiru	30.16	766.0	30.18	766.6	31.1	— 0.5	66	nnw.	6.9	3.1		0	0			0	0	clear	H. Midzushima.
Supporo					21.9	— 5.6	84	se.	6.0	2.7			5			0.110	2.8	fair	
Tokei Obs'y, Yeddo	30.12	765.0	30.19	766.8	36.0	2.2	52	nw.	6.3	2.8		0	0			0	0	clear	The Staff.
Wakayama	30.22	767.6	30.27	768.8	34.8	1.6	65	ne.	1.0	0.4		0	0			0	0	clear	Y. Kuwamura.
MAURITIUS.																			
Mauritius Observatory	29.66	753.4	29.85	758.2	77.5	25.3	94	ene.	9.5	4.2			toks;n			2.42	61.5	thud'rstorm	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.68	601.5	29.90	759.5	56.3	13.5	90	sw.				0	0			0	0	clear	Vicente Fernandez.
Leon	24.36	618.6	30.19	766.8	54.7	12.6	75	nne.			1	0	5		sw.	0	0	⅛ clouded	Prof. M. Leal.
Mazatlan	29.70	754.4	29.96	761.1	61.8	16.6	91	n;nw.	0.9	0.4		3 c	0	sw.		0	0	hazy	F. Quijano, C. E.
Mexico, Central Obs'y	23.04	585.3	30.13	765.2	50.0	10.0	62	calm	0	0		0	0			1.06	27.0	fine	M. Tena, M. D.
Morelia	24.22	615.1	30.36	771.1	56.5	13.6	65	se.			3	1	2	s.	se.	0	0	clear	The Staff.
Pabellon, Aguascalientes	23.99	609.1	30.09	764.2	48.7	9.3	64	calm	0	0		0	0			0	0		M. V. de Leon, M. E.
Puebla, Catholic Institute	23.39	594.1	30.24	768.1	47.9	8.5	77	calm	0	0		0	0			0	0	clear	Prof. P. Spina.
San Luis Potosi	24.18	614.0	30.05	763.4	63.8	17.7	67	e.			1	0	0			0	0	clear	G. Barroeta, M. D.
Vera Cruz																			
Zacatecas	22.54	572.3	30.18	766.5	51.7	11.0	43					6	0	sw.		0	0	⅛ clouded	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.85	758.3	29.85	758.3	48.6	9.2		w.			4					0.110	2.8		
Groningen	29.63	752.5	29.68	753.9	46.0	7.8		wnw.			6					0.055	1.4		
Helder	29.69	754.2	29.69	754.2	44.6	7.0		w.			5					0	0		
Hellevoetsluis	29.79	756.6	29.79	756.6	47.3	8.5	78	w.			4					0.020	0.5		
Utrecht	29.74	755.3	29.78	756.5	50.5	10.3	55	w.			5		5			0.016	0.4	cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.09	738.9	29.15	740.5	32.7	0.4	61	nw.	29	13			8			0.031	0.8	snowing	
Brono	28.61	726.8	28.65	727.8	25.9	— 3.4	60	wnw.	27	12			10			0.016	0.4	snowing	
Christiania	28.71	729.2	28.85	732.9	39.0	3.9	64	w.	4	2			10			0	0		
Gjesvær	28.37	720.5	28.39	721.1	26.2	— 3.2		sse.			6–7		10						
Lodingen	28.32	719.3	28.37	720.5	27.9	— 2.3	83	sw.			6–7		10			0.236	6.0		
PORTUGUESE.																			
Angra, Azores					59.7	15.4	89	w.	11.2	5.0			4			0	0		Dr. J. A. Sampaio.
Campo Major	29.32	744.6	30.33	770.3	60.4	15.8	53	wsw.	1.8	0.8			3			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.28	769.0	30.37	771.3	64.4	18.0	53	ssw.	2.5	1.1			2			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	30.05	763.2	30.42	772.6	55.0	12.8	76	n.	6.9	3.1			9			0	0		The Staff.
Ponta Delgada, Azores	30.32	770.0	30.39	771.8	62.6	17.0	73	sw.	9.8	4.4			4			0	0		
Saint Paul de Loando	29.67	753.7	29.87	758.7	82.4	28.0	85	w.	1.8	0 8			1	s.		0	0		
Serra da Estrella	25.53	648.5	30.43	772.9	37.4	3.0	96	wsw.	8.1	3.6			8			2.335*	59.3*		(* Total for 5 days.)
RUSSIAN.																			
Akmolinski	29.35	745.4	30.55	776.0	5.4	—14.8	96	ssw.	4	2		2 ck	0			0	0		Major K. Lasarew.
Archangel	29.26	743.1	29.28	743.6	22.6	— 5.2	83	se.	9	4			10			0	0		Capt. Sselliwerstow.
Astrakhan	30.26	768.6	30.18	766.5	53.2	11.8	61	s.	11	5			10 s			0.067	1.7	light clouds	Capt. Wisganow.
Barnaul	30.08	763.9	30.62	777.7	20.8	— 6.2	90	sw.	9	4			10			0	0		Meteorological Obs'y.
Dorpat	29.11	739.4	29.35	745.6	40.5	4.8	36	ssw.	16	7			10 n			0.126	3.2		Observatory.
Ekaterinburg	29.34	745.3	30.34	770.6	39.4	4.1	42	sw.	18	8			10			0	0	light clouds	Meteorological Obs'y.
Kasan	29.56	750.9	29.84	758.0	35.4	1.9	91	ssw.	9	4			10			0	0		Observatory.
Kertch	30.12	765.1	30.14	765.6	54.5	12.5	63	nnw.	4	2		1 c	0			0	0		Lagorio & Saatyres.
Kieff	29.35	745.6	30.00	762.0	45.5	7.5	62	wsw.	11	5		c	5 ks			0	0		Observatory.
Lugan	29.83	757.7	30.04	763.0	41.9	5.5	69	wnw.	34	15			9			0.008	0.2		Meteorological Obs'y
Moscow	29.21	741.9	29.69	754.2	37.8	3.2	68	ssw.	7.8	3.5		0	6 ks			0	0		Meteorological Obs'y.
Nikolaiev	30.10	764.4	30.17	766.2	54.1	12.3	56	calm	0	0		0	0			c	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor	29.72	755.0	29.81	757.2	2.8	—16.2	72	calm	0	0			1			0	0		Lieut. Iwanow.
Pekin, China	30.26	768.6	30.40	772.2	44.1	6.7	19	ne.	20	9		0	0			0	0		Physical Observatory.
St. Petersburg	29.27	743.5	29.29	743.9	37.8	3.2	88	ssw.	22	10			10 n			0.047	1.2	light rain	Central Physical Obs'y.
Tashkend, Laboratory	28.76	730.5	30.40	772.1	40.8	4.9	64	calm	0	0			0			0	0		Teich, A. M.
Tiflis	28.83	732.2	30.24	768.1	60.8	16.0	33	w.	2	1		1 c	0			0	0		Physical Observatory.
Vladivostok	29.98	761.6	30.05	763.3	25.7	— 3.5	60	calm	0	0			0						
Warsaw	29.36	745.7	29.78	756.4	50.7	10.4	47	ssw.	29	13		1 ck	0					light clouds	Astronomical Obs'y.
Wilna	29.28	743.6	29.70	754.3	46.4	8.0	65	sw.	4	2			8			0	0		Berg, Assistant.
Yeniseisk	30.17	766.2	30.47	774.0	24.4	— 4.2	78	w.	4	2			10			0.031	0.8	snowing	M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	30.01	762.2	30.11	764.9	58.3	14.6	58	w.	2.9	1.3			1			0	0	clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.23	767.8	30.29	769.3	55.6	13.1	84	e.	0.9	0.4			10			0.035	0.9	covered	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.30	693.3	30.34	770.6	47.5	8.6	78	s.	2.0	0.9			9			0	0	almost cov	Domingo Martin.
Madrid, Royal Obs'y	28.02	711.6	30.30	769.5	54.1	12.3	47	sw.	4.5	2.0		3	0	nw.		0	0	light clouds	The Staff.
Murcia, Met. Obs'y	30.06	763.4	30.21	767.2	65.5	18.6	44	nw.	6.5	2.9		0	0			0	0	clear	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.38	746.3	30.30	769.5	54.0	12.2	98	sw.	4.3	1.9			10			0.039	1.0	sprinkling	R. Gil Vallanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I	30.05	763.1	30.11	764.8	69.5	20.8	86	ese.	3.6	1.6		0	0			0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.88	759.0	29.94	760.5	78.8	26.0	69	se.	6.6	3.0		1 c	3 ck		nne.	0	0		P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.41	772.3	30.51	774.8	58.8	14.9	68	w.	10.8	4.8		0	0			0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	30.04	763.0	30.13	765.3	73.0	22.8	94	se.	4.9	2.2		2 c	4 kn	se.	se.	0.079	2.0	cloudy	Manuel Mueu.
Tuguegarao, Philippine Id's	29.90	759.4	30.03	762.7	68.8	20.4	92	nnw	9.6	4.3		1 ck	8 kn	ese.	nnw.	0.14	3.6	covered	José L. Yrastorza.
SWEDISH.																			
Haparanda	28.41	721.7	28.45	722.7	32.4	0.2	100	s.			4		10			0.457	11.6	snowing	
Umea	28.46	722.8	28.51	724.1	32.0	0.0	100	n.			6		10			0.189	4.8		
Hernosand	28.55	725.2	28.60	726.5	33.6	0.9	84	nnw.			4		10			0.008	0.2		
Stockholm	28.65	727.8	28.83	732.3	41.9	5.5	74	sw.			7		10			0	0		
Wisby	29.05	737.9	29.11	739.4	42.1	5.6	91	w.			7		10			0.031	0.8		
Sub-series.																			
Upsala	28.67	728.2	28.76	730.4	42.1	5.6	77	ssw.	4.8	10.7			9		ssw.	0.130	3.3		S. G. Fineman.
SWISS.																			
Geneva	28.67	728.2	30.11	764.7	52.2	11.2	56	ene.			1					0	0	cloudy	The Observatory.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lowe 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
TURKISH.																			
Constantinople	.....	.....	30.17	766.4	61.3	16.3	50	e.	6	2.5	.....	.....	1	.....	sw.	0	0	.....	The Observatory.
Valona	.....	.....	29.97	761.1	68.2	20.1	.....	s.	.....	.....	1	.....	10	.....	.....	0	0	covered	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	30.12	765.0	64.0	17.8	78	n.	.....	.....	2	0	0	.....	.....	0	0	.....	Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	29.79	756.7	29.88	758.9	48	8.9	63	sw.	1	0.4	.....	.....	10 s	.....	.....	0.02	0.5	cloudy	J. O. Barnes.
Alpena, Michigan	29.18	741.2	29.88	758.9	33.5	0.8	78	w.	5	2.2	.....	8 k	2 s	w.	.....	0	0	cloudy	Jas. J. Fitzgerald.
Atlanta, Georgia	28.89	733.8	30.09	764.3	61.5	16.4	87	s.	11	4.9	.....	2 cs	0	calm	.....	0	0	clear	H. Hall.
Atlantic City, New Jersey	29.86	758.4	29.87	758.7	44	6.7	93	se.	5	2.2	.....	.....	10 n	.....	.....	0.06	1.5	light rain	Jas. M. Watson.
Augusta, Georgia	29.94	760.5	30.14	765.5	57.2	14.0	80	s.	3	1.3	.....	0	hz.	.....	.....	0	0	clear	John Healy.
Baltimore, Maryland	29.84	757.9	29.89	759.2	46	7.8	93	s.	1	0.4	.....	.....	10s;fg	.....	sw.	0.18	4.6	cloudy	Robert Seyboth.
Barnegat, New Jersey	29.86	758.4	29.88	758.9	43.0	6.1	96	se	10	4.5	.....	.....	10 n	.....	.....	inap.	inap.	light rain	Chas. F. Merritt.
Bismarck, Dakota	28.60	726.4	30.52	775.2	— 3	—19.4	68	nw.	24	10.7	.....	.....	10 n	.....	.....	0.08	2.0	light snow.	Cyrus Cramer.
Boise City, Idaho	27.63	701.8	30.55	776.0	11	—11.7	91	se.	2	0.9	.....	0	3 s	.....	calm	0	0	fair	B. E. Light.
Boston, Massachusetts	29.76	755.9	29.92	760.0	41.0	5.0	82	s.	8	3.6	.....	.....	10 s	.....	w.	0.02	0.5	cloudy	O. B. Cole.
Brownsville, Texas	29.85	758.2	29.90	759.4	69	20.6	100	e.	4	1.8	.....	5 c	0	.....	.....	0	0	fair	J. C. Galloway.
Buffalo, New York	29.12	739.6	29.91	759.7	39.5	4.2	82	w.	7	3.1	.....	.....	10 s	.....	w.	0.11	2.8	cloudy	Wm. Finn.
Burlington, Vermont	29.52	749.8	29.83	757.7	38.5	3.6	81	s.	15	6.7	.....	.....	10 s	.....	w.	0.03	0.8	cloudy	G. C. Schaeffer.
Cairo, Illinois	29.74	755.4	30.16	766.1	44.8	7.1	78	nw.	14	6.3	.....	.....	10 s	.....	nw.	0.76	19.3	cloudy	W. H. Ray.
Campo, California	27.46	697.5	30.06	763.5	38.6	3.7	41	e.	10	4.5	.....	0	0	.....	.....	0	0	clear	W. H. Clendenon.
Camp Thomas, Arizona	27.24	691.9	30.02	762.5	31	— 0.6	76	calm	.....	.....	0	0	0	.....	.....	0	0	clear	J. T. Fitzgerald.
Cape Henry, Virginia	29.93	760.2	29.95	760.7	62	16.7	72	sw.	20	8.9	.....	2 k	8 s	sw.	sw.	0	0	cloudy	J. E. Lanouette.
Cape May, New Jersey	29.84	757.9	29.87	758.7	48	8.9	93	se.	7	3.1	.....	.....	10 n	.....	se.	0.02	0.5	light rain	W. Bolten.
Castroville, Texas	29.25	742.9	30.08	764.0	51	10.6	66	n.	6	2.7	.....	.....	10 s	.....	.....	0	0	cloudy	T. Jones.
Cedar Keys, Florida	30.15	765.8	30.17	766.3	66	18.9	84	s.	13	5.8	.....	0	0	.....	.....	0	0	clear	F. W. Mixer.
Champaign, Illinois	29.23	742.4	30.09	764.3	31.0	— 0.6	88	nw.	8	3.6	.....	0	3 s	.....	nw.	0	0	clear	L. A. Welsh.
Charleston, S. Carolina	30.06	763.5	30.12	765.0	61	16.1	93	sw.	6	2.7	.....	0	fg.	.....	.....	0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.12	739.6	30.00	762.0	58.0	14.4	81	sw.	4	1.8	.....	10 ks	fg.	.....	.....	0	0	cloudy	D. O. Donoghue.
Chattanooga, Tennessee	29.15	740.4	30.00	762.0	64.0	17.8	84	sw.	19	8.5	.....	.....	10 n	.....	sw.	0.57	14.5	light rain	B. L. Goulding.
Cheyenne, Wyoming	24.09	611.9	30.27	768.8	5.8	—14.6	76	n.	12	5.4	.....	.....	10 n	.....	.....	inap.	inap.	light snow	E. McGovern.
Chicago, Illinois	29.30	744.2	30.04	763.0	30.8	— 0.7	82	nw.	10	4.5	.....	.....	10 s	.....	.....	0	0	cloudy	J. Mitchell.
Chincoteague, Virginia	29.90	759.4	29.92	760.0	49	9.4	100	s.	10	4.5	.....	.....	10 s	.....	w.	0.13	3.3	cloudy	F. C. Pratz.
Cincinnati, Ohio	29.29	744.0	29.98	761.5	48	8.9	77	nw.	10	4.5	.....	.....	10 s	.....	n.	0.29	7.4	cloudy	R. B. Watkins.
Cleveland, Ohio	29.15	740.4	29.93	760.2	38	3.3	89	nw.	6	2.7	.....	.....	10 s	.....	.....	0.12	3.0	cloudy	J. B. Newlin.
Coleman City, Texas	28.30	718.8	30.15	765.8	38	3.3	72	n.	14	6.3	.....	.....	10 s	.....	n.	0	0	cloudy	L. Dorman.
Columbus, Ohio	29.03	737.3	29.92	760.0	46	7.8	83	nw.	8	3.6	.....	.....	10 n	.....	sw.	0.20	5.1	light rain	D. Cuthbertson.
Concho, Texas	28.17	715.5	30.14	765.5	41	5.0	92	n.	12	5.4	.....	.....	10 s	.....	.....	0	0	cloudy	W. W. McConihe.
Davenport, Iowa	29.47	748.5	30.16	766.1	25	— 3.9	73	nw.	14	6.3	.....	.....	10 s	.....	nw.	0	0	cloudy	R. R. Martin.
Dayton, Washington T'y	28.78	731.0	30.59	777.0	24.8	— 4.0	81	se.	5	2.2	.....	0	0	.....	.....	0	0	clear	H. Clifford.
Deadwood, Dakota	25.58	649.7	30.42	772.7	4.5	—15.3	79	nw.	2	0.9	.....	.....	10 n	.....	w.	0.04	1.0	light snow	G. W. Scott.
Decatur, Texas	.....	.....	.....	.....	38	3.3	79	n.	8	3.6	.....	.....	10 s	.....	.....	0.50	12.7	cloudy	D. J. Carr.
Delaware Breakwater, Del.	29.85	758.2	29.87	758.7	44	6.7	100	se.	6	2.7	.....	.....	10 ks	.....	sw.	0.03	0.8	cloudy	A. Schneider.
Denison, Texas	29.37	746.0	30.20	767.1	37.4	3.0	82	n.	12	5.4	.....	.....	10 s	.....	.....	0.37	9.4	cloudy	J. McGlone.
Denver, Colorado	24.89	632.2	30.33	770.4	13.5	—10.3	91	n.	7	3.1	.....	.....	10 n	.....	calm	0.18	4.6	light snow	F. M. Neal.
Des Moines, Iowa	29.33	745.0	30.29	769.4	15	— 9.4	67	nw.	12	5.4	.....	0	3 s	.....	nw.	0	0	clear	F. W. Conrad.
Detroit, Michigan	29.21	741.9	29.96	761.0	42.0	5.6	72	nw.	9	4.0	.....	.....	10 s	.....	w.	inap.	inap.	cloudy	C. F. R. Wappenhans.
Dodge City, Kansas	27.70	703.6	30.43	772.9	20	— 6.7	87	ne.	12	5.4	.....	.....	10 s	.....	.....	0	0	cloudy	E. A. Thomas.
Dubuque, Iowa	29.36	745.7	30.11	764.8	21.2	— 6.0	70	nw.	12	5.4	.....	.....	10 s	.....	calm	0	0	threatening	J. Harvey Smith.
Duluth, Minnesota	29.46	748.3	30.20	767.1	10	—12.2	100	nw.	13	5.8	.....	.....	10 s	.....	nw.	0.10	2.5	threatening	N. B. Conger.
Eagle Pass, Texas	29.27	743.4	30.09	764.3	57.2	14.0	57	n.	5	2.2	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	F. Belford.
Eagle Rock, Idaho	25.47	646.9	30.34	770.6	—14	—25.6	75	n.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. M. Clifford.
Eastport, Maine	29.94	760.5	30.01	762.2	35	1.7	84	s.	5	2.2	.....	.....	10 s	.....	.....	0.01	0.3	cloudy	J. H. Melton.
El Paso, Texas	26.26	667.0	30.06	763.5	39	3.9	36	w.	6	2.7	.....	0	0	.....	.....	0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.13	739.9	29.90	759.4	43	6.1	93	calm	0	0	.....	.....	10 n	.....	.....	0.18	4.6	light rain	R. H. Paxton.
Escanaba, Michigan	29.24	742.7	29.95	760.7	25	— 3.9	80	nw.	13	5.8	.....	.....	10 s	.....	nw.	0.08	2.0	cloudy	C. Dill.
Florence, Arizona	28.53	724.6	30.10	764.5	32.2	0.1	74	n.	1	0.4	.....	0	0	.....	.....	0	0	clear	R. R. Herman.
Fort Apache, Arizona	25.00	635.0	30.02	762.5	24	— 4.4	56	ne.	4	1.8	.....	0	0	.....	.....	0	0	clear	W. C. Barnes.
Fort Assinnaboine, Montana	27.66	702.6	30.68	779.3	— 9	—22.8	61	se.	4	1.8	.....	0	0	.....	.....	0.01	0.3	clear	B. O. Lenoir.
Fort Bennett, Dakota	28.81	731.8	30.51	774.9	4	—15.6	76	nw.	13	5.8	.....	0	8 s	.....	nw.	0.10	2.5	cloudy	T. Gibson.
Fort Benton, Montana	27.69	703.3	30.67	779.0	— 6	—21.1	65	calm	0	0	.....	0	0	.....	.....	0.02	0.5	clear	S. Wheaton.
Fort Buford, Dakota	28.59	726.2	30.73	780.5	1	—17.2	72	n.	8	3.6	.....	.....	10 s	.....	calm	0.20	5.1	cloudy	A. H. Bell.
Fort Custer, Montana	27.29	693.2	30.62	777.7	10	—12.2	66	calm	0	0	.....	.....	10 n	.....	calm	0.05	1.3	light snow	V. Verge.
Fort Davis, Texas	25.14	638.5	30.02	762.5	42	5.6	76	calm	0	0	.....	.....	10 s	.....	calm	0	0	cloudy	J. Williams.
Fort Elliott, Texas	27.40	695.9	30.24	768.1	25	— 3.9	64	ne.	16	7.2	.....	.....	10 s	.....	ne.	0	0	cloudy	W. J. Cundall.
Fort Gibson, Indian T'y	29.67	753.6	30.26	768.6	33.5	0.8	71	n.	8	3.6	.....	0	0	.....	.....	0.29	7.4	clear	J. B. Campbell.
Fort Grant, Arizona	25.19	639.8	30.02	762.5	30	— 1.1	45	sw.	6	2.7	.....	0	0	.....	.....	0	0	clear	T. J. Macgowan.
Fort Griffin, Texas	28.88	733.5	30.23	767.8	37	2.8	61	n.	5	2.2	.....	.....	10 k	.....	n.	0.12	3.0	cloudy	G. H. Hayne.
Fort Keogh, Montana	28.00	711.2	30.65	778.5	10	—12.2	60	nw.	6	2.7	.....	.....	10 s	.....	nw.	0.19	4.8	cloudy	W. B. Stockman.
Fort Macon, North Carolina	30.07	763.8	30.08	764.0	59	15.0	100	sw.	12	5.4	.....	hz.	hz.	calm	calm	0.02	0.5	light haze	L. Leonardy.
Fort McKavett, Texas	27.87	707.9	30.19	766.8	38.8	3.8	89	ne.	10	4.5	.....	9 ck	0	.....	.....	0	0	cloudy	J. E. Thatcher.
Fort Missoula, Montana	27.13	689.1	30.51	774.9	13	—10.6	66	nw.	1	0.4	.....	.....	10 ks	.....	nw.	0	0	cloudy	J. H. Jones.
Fort St. Michaels, Alaska	30.10	764.5	30.14	765.5	18	— 7.8	100	se.	18	8.0	.....	.....	10 s	.....	se.	0	0	cloudy	A. P. Leavitt.
Fort Shaw, Montana	26.76	679.7	30.56	776.2	— 4	—20.0	69	w.	1	0.4	.....	9 k	0	w.	.....	0	0	cloudy	A. L. Mathews.
Fort Sill, Indian Territory	28.99	736.3	30.28	769.1	31.8	— 0.1	68	n.	24	10.7	.....	10 cs	0	.....	.....	0.05	1.3	cloudy	T. Cleary.
Fort Stevenson, Dakota	28.66	728.0	30.64	778.2	— 3	—19 4	68	n.	20	8.9	.....	.....	10 s	.....	n.	0.45	11.4	cloudy	W. Burrows.
Fort Verde, Arizona	.....	.....	.....	.....	35.9	2.2	49	nw.	.....	.....	1	0	0	.....	.....	0	0	clear	D. Brooks.
Fort Washakie, Wyoming	24.66	626.4	.....	.....	8.1	—13.3	55	e.	7	3.1	.....	10 k	0	e.	.....	inap.	inap.	cloudy	T. M. Ambler.
Fredericksburg, Texas	28.33	719.6	30.09	764.3	45	7.2	76	n.	5	2.2	.....	.....	10 ks	.....	n.	0	0	cloudy	H. S. Miles.
Galveston, Texas	29.99	761.7	30.03	762.7	64	17.8	94	n.	17	7.6	.....	.....	10 n	.....	n.	0.04	1.0	light rain	E. O'C. MacInerney.
Grand Haven, Michigan	29.27	743.4	29.97	761.2	35.5	1.9	79	w.	12	5.4	.....	.....	10 s	.....	w.	0	0	cloudy	W. A. Reid.
Hatteras, North Carolina	30.03	762.7	30.05	763.3	57	13.9	100	sw.	18	8.0	.....	3 c	fg.	.....	.....	0	0	clear	R. M. Crawford.
Helena, Montana	26.14	663.9	30.50	774.7	13	—10.6	66	nw.	2	0.9	.....	10 k	0	.....	.....	0.01	0.3	cloudy	N. C. Smith.
Henrietta, Texas	29.24	742.7	30.28	769.1	44	6.7	30	n.	10	4.5	.....	.....	10 s	.....	.....	0.27	6.9	cloudy	J. W. Byram.
Huron, Dakota	28.91	734.3	30.39	771.9	5	—15.0	76	nw.	23	10.3	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.18	741.2	30.02	762.5	39	3.9	73	nw.	10	4.5	.....	5 cs	5 s	nw.	nw.	0.02	0.5	cloudy	O. Schutze.
Indianola, Texas	30.00	762.0	30.03	762.7	58.4	14.7	81	n.	23	10.3	.....	0	8 ks	.....	n.	0	0	cloudy	I. A. Reed.
Jacksboro, Texas	29.02	737.1	30.23	767.8	36	2.2	79	n.	5	2.2	.....	.....	10 ks	.....	.....	0.24	6.1	cloudy	J. P. Sherry.
Jacksonville, Florida	30.13	765.3	30.18	766.6	65	18.3	78	s.	10	4.5	.....	0	0	.....	.....	0	0	clear	J. W. Smith.
Keokuk, Iowa	29.50	749.3	30.18	766.6	24.0	— 4.4	67	w.	8	3.6	.....	2 k	0	w.	.....	0	0	clear	F. Z. Gosewisch.
Key West, Florida	30.12	765.0	30.14	765.5	72.0	22.2	82	e.	7	3.1	.....	0	1 k	e.	.....	0	0	clear	L. M. Melbourne.
Kittyhawk, North Carolina	30.00	762.0	30.02	762.5	59	15.0	90	sw.	16	7.2	.....	3ck;hs	0	.....	.....	0	0	fair	E. A. Beals.
Knoxville, Tennessee	28.91	734.3	29.97	761.2	63	17.2	87	sw.	12	5.4	.....	.....	10 s	.....	w.	0.24	6.1	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.25	742.9	30.07	763.8	24	— 4.4	88	w.	8	3.6	.....	.....	10 s	.....	.....	0	0	threatening	S. C. Emery.
La Mesilla, New Mexico	26.08	662.4	30.03	762.7	28.3	— 2.1	58	calm	0	0	.....	0	0	.....	.....	0	0	clear	N. D. Lane.
Leavenworth, Kansas	29.41	747.0	30.35	770.9	19	— 7.2	70	nw.	18	8.0	.....	2 cs	0	w.	.....	0	0	clear	A. W. Browne.
Lewiston, Idaho	29.76	755.9	30.62	777.7	26	— 3.3	45	e.	1	0.4	.....	0	0	.....	.....	0	0	clear	W. Blake.
Little Rock, Arkansas	29.79	756.7	30.12	765.0	49	9.4	77	n.	8	3.6	.....	.....	10 s	.....	.....	1.68	42.7	cloudy	M. F. Burrows.
Los Angeles, California	29.69	754.1	30.09	764.3	43.2	6.2	68	n.	5	2.2	.....	0	0	.....	.....	0	0	clear	E. F. Kubel.
Louisville, Kentucky	29.39	746.5	29.98	761.5	46	7.8	93	nw.	8	3.6	.....	.....	10 s	.....	nw.	0.50	12.7	cloudy	H. C. Smith.
Lynchburg, Virginia	29.20	741.7	29.92	760.0	48.2	9.0	86	sw.	3	1.3	.....	.....	10 s	.....	w.	0.15	3.8	cloudy	T. H. Breen.
Madison, Wisconsin	28.97	735.8	30.04	763.0	25	— 3.9	73	w.	17	7.6	.....	.....	10 s	.....	w.	c	0	cloudy	C. A. Shaw.
Marquette, Michigan	29.24	742.7	30.01	762.2	22	— 5.6	88	n.	11	4.9	.....	.....	10 n	.....	nw.	0.21	5.3	light snow	I. Gilligan.
Mason, Texas	28.45	722.6	30.14	765.5	43	6.1	68	n.	6	2.7	.....	.....	8 ks	.....	n.	0	0	cloudy	A. M. Wilson.
Memphis, Tennessee	29.79	756.7	30.14	765.5	48	8.9	86	nw.	13	5.8	.....	.....	10 s	.....	.....	3.84	97.5	cloudy	D. T. Flannery.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–01	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Milwaukee, Wisconsin	29.22	742.2	30.01	762.2	31.0	— 0.6	88	w.	12	5.4	.....	.....	10 s	.....	w.	0	0	cloudy	W. Line.
Mobile, Alabama	30.05	763.3	30.09	764.3	64	17.8	97	s.	3	1.3	.....	2 k	0	sw.	.....	0	0	clear	J. D. Paxton.
Montgomery, Alabama	29.82	757.4	30.06	763.5	64.5	18.1	91	s.	7	3.1	.....	6 cs	2 k	w.	sw.	0	0	cloudy	J. B. McLaughlin.
Moorhead, Minnesota	29.28	743.7	30.36	771.1	3	—16.1	100	n.	16	7.2	.....	.....	10 n	.....	n.	0.30	7.6	light snow	H. Bessant.
Morgantown, W. Virginia	28.81	731.8	29.87	758.7	50.5	10.3	91	ne.	14	6.3	.....	.....	10 n	.....	ne.	1.04	26.4	light rain	J. Sprigg, jr.
Mt. Washington, N. H.	23.52	597.4	30.04	763.0	27.0	— 2.8	90	nw.	40	17.9	.....	.....	fg.	.....	nw	0.35	8.9	light fog	J. G. Linsley.
Nashville, Tennessee	29.44	747.8	30.00	762.0	51.5	10.8	90	nw.	8	3.6	.....	.....	10 n	.....	nw.	3.00	76.2	light rain	L. A. Josunofsky.
New Haven, Connecticut	29.79	756.7	29.91	759.7	41	5.0	92	calm	0	0	.....	.....	10s;fg	.....	.....	inap.	inap.	cloudy	J. H. Sherman.
New London, Connecticut	29.91	759.7	29.96	761.0	43	6.1	74	sw.	1	0.4	.....	.....	10 s	.....	calm	0	0	cloudy	J. G. Lynch.
New Orleans, Louisiana	29.98	761.5	30.04	763.0	68.0	20.0	87	s.	9	4.0	.....	0	1 s	.....	s.	0	0	clear	A. J. Armstrong.
Newport, Rhode Island	29.90	759.4	29.95	760.7	41.3	5.2	95	s.	8	3.6	.....	.....	10 s	.....	w.	0	0	cloudy	W. McGillivray.
New River, N. Carolina	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	C. C. Corbin.
New Shoreham, Rhode I'd.	29.91	759.7	29.94	760.5	44.0	6.7	74	sw.	5	2.2	.....	9 cs	0	sw.	.....	0	0	cloudy	W. Davis.
New York, New York	29.74	755.4	29.92	760.0	43	6.1	93	s.	2	0.9	.....	.....	10 n	.....	s.	0.04	1.0	light rain	E. B. Garriott.
Norfolk, Virginia	29.92	760.0	29.95	760.7	59	15.0	75	sw.	12	5.4	.....	3 ck	7 s	w.	w.	inap.	inap.	cloudy	J. T. Eiker.
North Platte, Nebraska	27.35	694.7	30.41	772.4	13.6	—10.2	68	n.	12	5.4	.....	0	0	.....	.....	0	0	clear	E. F. Brady.
Olympia, Washington T'y	30.53	775.4	30.57	776.5	29.5	— 1.4	82	ne.	2	0.9	.....	2 c	0	calm	.....	0	0	clear	J. Dascomb.
Omaha, Nebraska	29.15	740.4	30.40	772.1	12.8	—10.7	70	nw.	28	12.5	.....	0	0	.....	.....	0	0	clear	A. Pollak.
Ogiaamie, Pt. Barrow, Alas.	30.00	762.0	30.02	762.5	— 7.2	—21.8	85	ese.	11	4.9	.....	2 c	2 s	.....	.....	0	0	fair	P. H. Ray.
Oswego, New York	29.47	748.5	29.81	757.2	45.0	7.2	76	sw.	4	1.8	.....	.....	10 s	.....	w.	0.04	1.0	cloudy	S. W. Beall.
Palestine, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.03	0.8	.....	L. M. Pindell.
Pensacola, Florida	30.08	764.0	30.11	764.8	62.3	16.8	96	calm	0	0	.....	0	0	.....	.....	inap.	inap.	clear	M. McGauran,
Philadelphia, Pa	29.79	756.7	29.89	759.2	47	8.3	86	se.	4	1.8	.....	.....	10 n	.....	se.	0.07	1.8	light rain	T. F. Townsend.
Pike's Peak, Colorado	17.30	439.4	29.89	759.2	—19	—28.3	100	se.	28	12.5	.....	.....	10 n	.....	se.	0.07	1.8	light snow	L. M. Dey.
Ploche, Nevada	24.12	612.6	30.26	768.6	14	—10.0	70	n.	8	3.6	.....	0	0	.....	.....	0	0	clear	C. K. Kitchel.
Pittsburg, Pennsylvania	29.02	737.1	29.87	758.7	53.0	11.7	86	nw.	4	1.8	.....	.....	10n;fg	.....	nw.	0.38	9.7	light rain	J. H. Bryce.
Port Eads, Louisiana	30.08	764.0	30.09	764.3	63.7	17.6	100	se.	8	3.6	.....	0	hz.	.....	.....	inap.	inap.	clear	H. G. Christian.
Port Huron, Michigan	29.21	741.9	29.93	760.2	35.8	2.1	79	w.	5	2.2	.....	.....	10 s	.....	calm	0	0	cloudy	W. O. Bailey.
Portland, Maine	29.86	758.4	29.91	759.7	41.0	5.0	82	s.	5	2.2	.....	.....	10 s	.....	s.	0	0	cloudy	D. C. Murphy.
Portland, Oregon	30.46	773.7	30.53	775.4	33.2	0.7	88	nw.	3	1.3	.....	1 c	0	.....	.....	0	0	clear	M. L. Hearne.
Portsmouth, N. Carolina	.....	.....	.....	.....	58	14.4	87	sw.	19	8.5	.....	hz.	hz.	calm	calm	0	0	dense haze	F. P. Chaffee.
Prescott, Arizona	24.76	628.9	30.10	764.5	25	— 3.9	67	s.	8	3.6	.....	6 cs	0	s.	.....	0	0	fair	J. Mc N. Wright.
Provincetown, Mass.	29.94	760.5	29.96	761.0	38	3.3	89	s.	13	5.8	.....	.....	10 s	.....	.....	0	0	cloudy	P. T. Jenkins.
Punta Rassa, Florida	30.13	765.3	30.14	765.5	63	17.2	84	e.	9	4.0	.....	3 ck	0	se.	.....	0	0	clear	W. J. Evans.
Red Bluff, California	30.04	763.0	30.42	772.7	37.2	2.9	61	n.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.68	753.9	29.92	760.0	73	22.8	84	se.	2	0.9	.....	.....	10 s	.....	se.	0	0	cloudy	W. H. Taylor.
Rochester, New York	29.16	740.7	29.86	758.4	41	5.0	92	w.	6	2.7	.....	.....	10s;fg	.....	w.	0.06	1.5	cloudy	A. T. Sherwood.
Roseburg, Oregon	29.95	760.7	30.51	774.9	29.2	— 1.6	88	calm	0	0	.....	2 c	0	nw.	.....	0	0	clear	J. J. Nanry.
Sacramento, California	30.24	768.1	30.32	770.1	42.6	5.9	36	n.	18	8.0	.....	0	0	.....	.....	0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.58	751.3	30.21	767.3	32.8	0.4	68	nw.	12	5.4	.....	1 c	0	.....	.....	0	0	clear	J. H. Webber.
St. Paul, Minnesota	29.15	740.4	30.07	763.8	24.0	— 4.4	92	n.	3	1.3	.....	.....	10 s	.....	.....	0.02	0.5	clear	O. S. M. Cone.
St. Vincent, Minnesota	29.57	751.1	30.31	774.9	— 6	—21.1	100	n.	22	9.8	.....	.....	10 s	.....	n.	0.49	12.4	cloudy	G. Kingsbury.
Salt Lake City, Utah	25.82	655.8	30.34	770.6	13	—10.6	48	ne.	5	2.2	.....	0	0	.....	.....	0.22	5.6	cloudy	J. Craig.
San Antonio, Texas	29.43	747.5	30.14	765.5	49.0	9.4	63	n.	12	5.4	.....	.....	10 s	.....	n.	0.11	2.8	clear	E. Lane.
San Diego, California	30.01	762.2	30.08	764.0	46.5	8.1	91	e.	5	2.2	.....	0	0	.....	.....	0	0	cloudy	A. C. Dobbins.
Sandusky, Ohio	29.24	742.7	29.96	761.0	41	5.0	73	nw.	15	6.7	.....	.....	10 s	.....	w.	0.04	1.0	clear	M. H. Perry.
Sandy Hook, New Jersey	29.87	758.7	29.91	759.7	45.0	7.2	93	s.	7	3.1	.....	.....	10 n	.....	calm	0.02	0.5	cloudy	B. A. Blundon.
San Francisco, California	30.25	768.3	30.32	770.1	47	8.3	42	sw.	13	5.8	.....	0	0	.....	.....	0	0	light rain	N. Gorom.
Santa Fé, New Mexico	23.13	587.5	30.11	764.8	27.5	— 2.5	46	s.	5	2.2	.....	4 c	0	sw.	.....	0	0	clear	H. N. Jones.
Savannah, Georgia	30.06	763.5	30.15	765.8	62	16.7	78	sw.	8	3.6	.....	0	hz.	.....	.....	0	0	fair	H. M. Ford.
Shreveport, Louisiana	29.84	757.9	30.10	764.5	52	11.1	93	n.	6	2.7	.....	.....	10 s	.....	n.	0.03	0.8	clear	E. N. Meekins.
Silver City, New Mexico	24.19	614.4	29.97	761.2	28	— 2.2	43	calm	0	0	.....	0	0	.....	.....	0	0	threatening	J. B. Wallace.
Sitka, Alaska	29.60	751.8	29.67	753.6	41.7	5.4	70	e.	34	15.2	.....	.....	10 n	.....	e.	0.18	4.6	clear	J. J. McLean.
Smithville, North Carolina	30.06	763.5	30.10	764.5	59	15.0	93	w.	9	4.0	.....	0	0	.....	.....	0	0	light rain	J. C. Rickli.
Spokane Falls, Wash. Ter.	28.47	723.1	30.60	777.2	16	— 8.9	76	sw.	5	2.2	.....	0	0	.....	.....	0	0	clear	D. Moore.
Springfield, Illinois	29.47	748.5	30.19	766.8	31	— 0.6	63	nw.	9	4.0	.....	0	4 s	.....	nw.	0	0	fair	T. B. Jennings.
Springfield, Massachusetts	29.76	755.9	29.90	759.4	42.3	5.7	83	s.	3	1.3	.....	.....	10s;fg	.....	sw.	0.03	0.8	cloudy	T. S. Outram.
Springfield, Mo	28.74	730.0	30.30	769.6	28	— 2.2	82	n.	11	4.9	.....	9 cs	1 ks	.....	.....	0.14	3.6	cloudy	J. B. Marbury.
Thatcher's Island, Mass	29.89	759.2	29.95	760.7	38.0	3.3	89	sw.	19	8.5	.....	.....	10 s	.....	.....	0	0	cloudy	G. Liebmann.
Toledo, Ohio	29.24	742.7	29.97	761.2	42	5.6	76	w.	5	2.2	.....	.....	10 s	.....	sw.	0.01	0.3	threatening	A. Buell.
Tucson, Arizona	27.58	700.5	30.04	763.0	36	2.2	72	se.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. L. Whiteside.
Umatilla, Oregon	30.29	769.4	30.67	779.0	23.5	— 4.7	90	se.	1	0.4	.....	0	0	.....	.....	0	0	clear	R. P. Sibley.
Uvalde, Texas	29.06	738.1	30.04	763.0	53	11.7	66	se.	3	1.3	.....	.....	10 ks	.....	sw.	0	0	cloudy	E. C. Imlay.
Vicksburg, Mississippi	29.79	756.7	30.05	763.3	63	17.2	90	nw.	13	5.8	.....	.....	10 s	.....	w.	0.43	10.9	threatening	T. J. Kenan.
Visalia, California	29.83	757.7	30.21	767.3	37	2.8	77	w.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. T. Cochran.
Washington, D. C.	29.76	755.9	29.88	758.9	46	7.8	100	se.	1	0.4	.....	.....	10 s	.....	s.	0.19	4.8	cloudy	B. M. Purssell.
West Los Animas, Colorado	26.25	666.7	30.33	770.4	17	— 8.3	83	ne.	5	2.2	.....	0	9 s	.....	calm	0	0	cloudy	J. Grover.
Wickenburg, Arizona	.....	.....	.....	.....	40.0	4.4	36	w.	.....	.....	1	0	9 k	.....	w.	0	0	cloudy	H. A. Kremp.
Williamsport, Pa	29.26	743.2	29.89	759.2	43.5	6.4	79	e.	1	0.4	.....	.....	10 n	.....	calm	inap.	inap.	light rain	B. F. Hough.
Wilmington, N. Carolina	30.01	762.2	30.07	763.8	63	17.2	84	sw.	16	7.2	.....	.....	10 s	.....	w.	0	0	cloudy	S. A. Haney.
Winnemucca, Nevada	25.89	657.6	30.39	771.9	20	— 6.7	73	ne.	6	2.7	.....	0	0	.....	.....	0	0	clear	J. R. Williams.
Yankton, Dakota	29.00	736.6	30.39	771.9	8	—13.3	76	nw.	18	8.0	.....	.....	10 ks	.....	nw.	inap.	inap.	cloudy	J. H. Atfield.
Yuma, Arizona	29.97	761.2	30.13	765.3	51.6	10.9	39	n.	14	6.3	.....	0	0	.....	.....	0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	21.98	558.3	.....	.....	54.5	12.5	72	calm	0	0	.....	.....	10 ks	.....	.....	0	0	cloudy	Joaquin Gomez.
Bridgetown, Barbados, W.I.	30.06	763.5	30.07	763.8	77	25.0	81	e.	.....	.....	.....	5 k	5 ks	e.	e.	0	0	fair	J. A. Racker.
Buenaventura, U. S. C.	29.89	759.2	29.91	759.7	78	25.6	86	sw.	4	1.8	.....	.....	10 ks	.....	s.	0.20	5.1	cloudy	J. I. Plume.
Guadeloupe, W. I.	29.94	760.5	29.96	761.0	76	24.4	87	e.	.....	.....	.....	0	2 ks	.....	.....	0.039	1.0	clear	B. Bigar.
Havana, Cuba, W. I.	30.11	764.8	30.16	766.1	73	22.8	76	se.	1.2	0.5	.....	0	1 ks	.....	calm	0	0	clear	A. Van Caneghem.
Kingston, Jamaica, W. I.	30.05	763.3	30.06	763.5	69.4	20.8	78	n.	1	0.4	.....	0	1 s	.....	.....	0.11	2.8	.....	Robert Johnston.
Navassa	30.10	764.5	30.18	766.6	77	25.0	78	e.	13	5.8	.....	5 ck	2 s	se.	e.	0	0	.....	F. M. Everett.
Paramaribo, S. A.	30.02	762.5	30.02	762.5	78	25.6	86	e.	.....	.....	2	5 ck	6 k	e.	.....	0	0	.....	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.45	748.0	29.91	759.7	78	25.6	90	calm	.....	.....	0	.....	10 s	.....	calm	0	0	foggy	Miss Flora A. Nichols.
Rivas	.....	.....	.....	.....	.....	.....	96	ne.	.....	.....	4	0	ks	.....	ne.	0	0	clear	Robert Mason.
Santiago de Cuba, W. I.	30.04	763.0	30.06	763.5	72	22.2	81	n.	6	2.7	.....	3 cs	2 s	.....	.....	0	0	fair	
York Factory, B. A.	30.78	781.8	30.84	783.3	—29.0	—33.9	.....	w.	6	2.7	.....	0	0	.....	.....	0	0	clear	W. Wood.

STATIONS AND VESSELS.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.			Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Amount and kind.		Direction.						
								Force.	Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	From.	From.	Inch.	Mill.			
BRITISH NAVAL.																	
H. M. S. Agincourt, N. 36° 07′, W. 5° 21′	30.32	770.1	52	11.1	86	calm			0		0						blue sky.
H. M. S. Alert, Mahi, Seychelles Id's	29.88	758.9	83	28.3	78	nne.			2		7						showery.
H. M. S. Alexandra, Malta, Mediterranean	29.63	752.6	58.8	14.9	74	ssw.			4–6		5	sw.					squally.
H. M. S. Bacchante, Alexandria, Egypt	30.06	763.5	64	17.8	78	calm			0		4	nnw.					d. clouds.
H. M. S. Boadicea, S. 33° 10′. E. 17° 48′	29.97	761.2	65.5	18.6	61	s.			1–2		2	calm			2	s.	d. clouds.
S. S. Champion, S. 32° 15′ W. 91° 55′	29.90	759.4	69	20.6	90	calm			0		9				4	sse.	d. clouds.
H. M. S. Cleopatra, Suez, Egypt	30.06	763.5	72	22.2	58	calm			0		0						blue sky.
H. M. S. Comus, Singapore, Malay Peninsula	29.95	760.7	80	26.7	95	ne.			2		4						d. clouds.
H. M. S. Diamond, S 39° 32′, E. 72° 00′	30.03	762.7	62.5	16.9	80	nnw.			2–3		9				1	nnw.	d. clouds.
H. M. S. Dido, N. 13° 05′, W. 59° 36′	30.06	763.5	78	25.6	..	ene.			2		2	ene.					d. clouds.
H. M. Dock-Yard, Bermuda, W. I.	30.21	767.3	60	15.6	76	nnw.			1		3	nnw.					d. clouds.
H. M. S. Dwarf, S. 34° 35′, W. 58° 19′	30.01	762.2	68	20.0	84	nw.			1–2		0				1	nnw.	blue sky.
H. M. S. Eclipse, S. 15° 01′, E. 40° 45′	29.83	757.7	84	28.9	.. ..	ese.			2		4						d. clouds.
H. M. S. Espiegle, S. 39° 34′, E. 47° 44′	30.00	762.0	64	17.8	89	sse.			2		9				3	s.	d. clouds.
H. M. S. Fawn, Zebayer Island, Red Sea	29.87	758.7	81	27.2	72	s.			3		2				4	s.	d. clouds.
H. M. S. Flying Fish, N. 34° 41′, E. 135° 12′	30.25	768.3	39	3.9	71	nne.			1		3	ne.			1	ne.	d. clouds.
H. M. S. Gannet, S. 32° 00′, W. 92° 40′	30.22	767.6	69	20.6	60	e.			1		10	sw.			2	e.	d. clouds.
H. M. S. Garnet, Keppel Sound, Faulkland Isld.	29.59	751.6	47	8.3	77	ssw.			7		4						showery.
H. M. S. Inconstant, Anjer Java, Oceania	29.85	758.2	83	28.3	83	n.			2–3		8	ne.			1	ne.	d. clouds.
H. M. S. Iris, N. 31° 22′, E. 280 50′	30.10	764.5	64	17.8	83	ne.			2–3		5	nne.			1	nne.	d. clouds.
H. M. S. Iron Duke, N. 22° 16′, E. 114° 10′	30.21	767.3	57	13.9	81	calm			0		4						d. clouds.
H. M. S. Liffey, Coquimbo, Chili	29.93	760.2	62	16.7		calm			0		10						overcast.
H. M. S. Magpie, N. 23° 46′, E. 117° 35′	30.23	767.8	52.3	11.3	81	ene.			3–5		0				2	ene.	h'v'y squalls
H. M. S. Malabar, N. 36° 07′, W. 5° 20	30.28	769.1	58	14.4	87	wsw.			3		1	w.			3	wnw.	blue sky.
H. M. S. Rambler, Gaboon, Lower Guinea	29.84	757.9	85	29.4		wsw.			1		5	calm					d. clouds.
H. M. S. Rocket, Vancouver Island, British Columbia	30.49	774.4	33	0.6	89	wsw.			1		2						d. clouds.
H. M. S. Sea Gull, S. 2° 13′, E. 40° 59′	29.30	744.2	81	27.2	82	e.			3–4		3	ene.					d. clouds.
H. M. S. Thalia, N. 7° 16′, W. 26° 12′	29.95	760.7	80	26.7		nne.			2–3		2				1	nne.	blue sky.
H. M. S. Triumph, S. 32° 01′, W. 92° 42′	30.23	767.8	69	20.6	65	ese.			2		8	se.			6	e.	d. clouds.
H. M. S. Tyne, N. 8° 31′, E. 109° 23′	29.98	761.5	78.5	25.8	97	nne.			6		3	ne.			6	nne.	d. clouds.
H. M. S. Woodlark, Bombay, India	29.87	758.7	77.5	25.3	73	wnw.			2		0						misty.
PORTUGUESE NAVAL.																	
Quanza, Boavista, Cape Verd Islands	30.04	763.0	72.5	22.5	78	ne.			3		2	sw.			2	ne.	blue sky.
UNITED STATES NAVAL.																	
Navy Yard, Pensacola, Fla	30.08	764.0	69	20.6	90	sse.	2	0.9			0		0	0			clear.
Naval Hospital, Portsmouth, N. H	29.91	759.7	38	3.3	81	calm	0	0			10		0	0			cloudy.
Naval Hospital, Yokohama, Japan	29.98	761.5	38.5	3.6	41	nw.			1		1	w.	0	0			clear.
Adams, Callao, Peru	29.68	753.9	66	18.6	100	sse.			1		10				gr'd		foggy.
Alaska, Valparaiso, Chili	29.85	758.2	59	15.0	82	calm			0		0		0	0	sm'h		clear.
Alert, N. 60° 12′, E. 116° 01′*	29.78	756.4	81	27.2	87	n.			3		5	n.	0	0	sm'h		fair.
Alliance, N. 17° 30′, W. 63° 10′	30.00	762.0	75	23.9	86	e.			2		8		light	light	sm'h		cloudy.
Ashuelot, Tientsin, China	30.35	770.9	40	4.4	56	sse.			2		0						clear.
Brooklyn, Falkland Islands	29.41	747.0	49	9.4	93	ssw.	20	8.9			8	sw.	0.02	0.5	mod.		raining.
Colorado, N. Y.	29.92	760.0	43	6.1	92	calm	0	0			10	calm	0.03	0.8			raining.
Enterprise, N. 29° 10′, W. 71° 07′*	30.20	767.1	64	17.8	83	e.			2		0				long	ne.	clear.
Essex, Porto Grande, Cape Verd Islands	30.10	764.5	71	21.7	66	ne.			4		2				long	ne.	clear.
Franklin, Norfolk, Va.	29.96	761.0	60	15.6	94	ssw.	13	5.8			8	nnw.	0	0			fair.
Galena, Villafranca, France	29.96	761.0	62	16.7	50	ssw.			2		0				sm'h		clear.
Independence, Mare Island, Cal.	30.16	766.1	43	6.1	51	wnw.			2		0		0	0			clear.
Kearsage, New Orleans, La	30.02	762.5	67	19.4	89	sse.			2		2						fair.
Lackawanna, Valparaiso, Chili†	30.02	762.5	58	14.4	100	calm			0		10						foggy.
Lancaster, Smyrna, Turkey *	30.13	765.3	64	17.8	73	w.			1–2		0						clear.
Marion, S. 33° 54′, E. 18° 24′*	29.77	756.1	70	21.1	80	w.			3		0		0	0	sm'h		clear.
Michigan, Erie, Pa	29.79	756.7	41	5.0	100	s.			1		10	s.			sm'h		raining.
Minnesota, Newport, R. I.	29.94	760.5	45	7.2	84	ssw.	4	1.8			10						hazy.
Monocacy, Yokohama, Japan	30.21	767.3	47	8.3	85	e.			2		0						clear.
New Hampshire, Newport, R. I.	29.91	759.7	45	7.2	84	ssw.			2		10	s.					cloudy.
Nipsic, Libson, Portugal	30.39	771.9	60	15.6	76	w.			2		10				sm'h		cloudy.
Onward, Callao, Peru†	30.03	762.7	65	18.3	100	se.			3		10	nnw.			long	w.	foggy.
Palos, Toug Sang Harbor, China	30.26	768.6	51	10.6	86	ene.			5		5						fair.
Passaic, Washington, D. C.	29.92	760.0	46	7.8	92	calm			0		10						cloudy.
Pensacola, S. 25° 03′, W. 70° 53′	29.97	761.2	65	18.3	68	wnw.			1		10	n.	0	0	long	n.	cloudy.
Powhatan, N. 15° 22′, W. 61° 30′*	30.11	764.8	78	25.6	78	ene.			2		2				sm'h		clear.
Quinnebaug, Smyrna, Turkey	30.17	766.3	63	17.2	67	wsw.			3		0		0	0	sm'h		clear.
Ranger, Acapulco, Mexico *	29.85	758.2	75	23.9	86	calm			0		0		0	0	sm'h		clear.
Richmond, Yokohama, Japan *	30.11	764.8	42	5.6	50	nw.			3		8	wnw.	0	0			fair.
Shenandoah, S. 5° 16′, W. 31° 42′ *	30.02	762.5	82	27.8	79	se.			4		2	se.			sm'h		clear.
St. Louis, League Island, Pa	30.13	765.3	45	7.2	84	se.	2	0.9			10		0.06	1.5			raining.
Swatara, Yokohama, Japan *	29.99	761.7	43	6.1	83	nw.			2		2	w.			sm'h		fair.
Tennessee, N. 29° 30′, W. 80° 25′	30.17	766.3	70	21.1	85	ssw.	22	9.8			2		0	0	mod.	sw.	fair.
Vandalia, Havana, Cuba*†	30.24	768.1	69	20.6	95	calm			0		0						clear.
Wabash, Boston, Mass.	29.95	760.7	42	5.6	83	ssw.	6	2.7			10	s.	0.12	3.0			foggy.
Wachusetts, Sitka, Alaska	29.56	750.8	41	5.0	91	e.			6		10	se.			sm'h		squally.
Wyoming, Port Royal, S. C.	30.13	765.3	59	15.0	100	ssw.	10	4.5			5	w.	0	0			fair.
Yantic, Pensacola, Florida*	30.03	762.7	69	20.6	95	e.			1		2						clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.			Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Amount and kind.		Direction.						
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.	Character.	Direction from.	
ALLAN LINE.																	
S. S. Circassian, N 56° 15′, W. 9° 10′	30.19	766.8	45	7.2	45	nw.			6	6		nw.	1 h'r	1 h'r	6	nw.	d. clouds.
S. S. Nova Scotian, N. 42° 47′, W. 53° 53′	29.82	757.4	31	—0.6		nne.			4	10		nnw.			long	nw.	cloudy.
S. S. Peruvian, Liverpool, Eng*.	29.30	744.2	40	4.4		w.			6	5?		w.	0	0			clear.?
S. S. Prussian, Boston, Mass*	29.91	759.7	42	5.6		e.			1	8?		se.					clear.?
S. S. Scandinavian, N. 54° 12′ W. 15° 45′*	29.93	760.2	44	6.7		se.			6	10		wsw.	2 h'r	light	high	of'd	hailing.
S. S. Waldensian, N. 47° 09′, W. 40° 50′*	29.20	741.7	52	11.1		wsw.			4	2?		w.	4 h'r	4 h'r	long	sw.	cloudy.?
AMERICAN STEAMSHIP COMPANY.																	
S. S. Illinois, N. 39° 05′, W. 69° 53′	29.93	760.2	41	5 0	91	e.			3	10		e.			sm'h	s.	overcast.
S. S. Indiana, N. 38° 51′, W. 74° 10′†	29.83	757.7	47	8.3	85	sw.			4	2		sw.	light	light	sm'h		hazy.
S. S. Ohio, N. 48° 40′, W. 32° 00′*†	29.24	742.7	46	7.8	92	sw.			8	10		w.			h'vy	nw.	overcast.
ANCHOR LINE.																	
S. S. Devonia, N. 54° 36′ W. 180 00′*†	29.78	756.4	43	6.1		ese.			3	10					hv'y	w.	rainy.
S. S. Galatia, N. 46° 58′, W. 36° 37′†	29.38	746.2				s;sw.			6	9		sse.	18 h'r	18 h'r	mod.	s.	heavy rain.
ATLAS LINE.																	
S. S. Ailsa, Crooked Island Passage, W. I.	30.17	766.3	75	23.9	76	ene.			2	5		ese.	o	o	sm'h		fine.
S. S. Alvo, Savanilla, U. S. C.	29.95	760.7	79	26.1		nne.			6	2		nne.	o	o			fine.
BOSTON AND HALIFAX LINE.																	
S. S. Carroll, N. 44° 12′, W. 64° 37′†	30.06	763 5				se.							o	o	long		cloudy.
BRITISH METEOROLOGICAL OFFICE.																	
S. Auckland, S. 12° 01′, W. 31° 35′	30.01	762.2	81	27.2		ene.			3	4							blue sky.
S. Baroda, S. 44° 52′, E. 1° 35′	29.81	757.2	51.3	10.7	86	wsw.			6	6							d. clouds.
Bk. Caldew, S. 9° 50′, W. 27° 52′	30.03	762.7	81	27.2		e.			6	4							d. clouds.
S. S. Cipero, N. 48° 27′, W. 9° 55′	30.14	765.5	55.2	12.9	84	w.			1	10					1	wnw.	misty.
Bk. Coppename, N. 31° 55′, W. 50° 10′	29.95	760 7	64.5	18.1	60	nw.			4	5							blue sky.
S. S. Gordon Castle, N. 12° 18′, E. 51° 24′	30.04	763.0	80.8	27.1	62	ene.			5	1							blue sky.
Bg. Hermine, S. 28° 05′, W. 27° 41′	30.12	765.0	76.8	24.9	88	n.			3	0							blue sky.
S. Lochee, N. 9° 00′, W. 32° 48′	30.01	762.2	76.5	24.7	75	ne.			5	6							misty.
S. S. Minho, S. 11° 54.′ W. 37° 16′	30.01	762.2	84.8	29.3	72	ne.			3	3							d. clouds.
Queen of Cambria, N. 7° 38′, E. 82° 26′	29.89	759.2	77.8	25.4	90	ene.			5	10							thnd'r st orm
BRISTOL LINE.																	
S. S. Brooklyn City, N. 41° 22′, W. 51° 00′*†	30.00	762.0	46	7.8		n.			6	8		n.	o	o	high	n.	cloudy.
CROMWELL LINE.																	
S. S. Hudson, N. 36° 10′, W. 73° 40′*†	29.95	760.7	54	12.2		sw.			4	8		w.	o	o	mod.	ne.	overcast.
S. S. New Orleans, N. 34° 22′ W. 76° 35′*	30.15	765.8	52	11.1		sw.				2		nnw.			r'gh	sw.	smoky.
GENERAL TRANS-ATLANTIC COMPANY.																	
S. S. Canada, Havre, France	29.96	761.0	46.4	8.0		sw.			2	8		sw.	1 h'r	1 h'r			
St. Laurent, N. 49° 30′, W. 14° 20′*†	30.08	764.0	53.6	12.0		sw.			6				o	o	h'vy	sw.	hazy.
HAMBURG AMERICAN PACKET COMPANY.																	
S. S. Gellert, N. 41° 35′ W. 61° 25′*	30.09	764.3	37	2.8		nnw.			3	10			2 h'r	snow	mod.	nw.	hazy.
S. S. Lessing, N. 49° 29′, W. 8° 33′*†	29.73?	755.1?	58	14.4		w.			5	5		nw.	o	o	long	w.	fair.
JOHNSTON LINE.																	
S. S. Thanemore, Off South Stack, Wales	30.03	762.7				n.			4	1		n.	o	o			clear.
LEYLAND LINE.																	
S. S. Iberian, N. 51° 38′, W. 25° 18′						sw.			3	10		w.	6 h'r	6 h'r	mod.	sw.	
MALLORY LINE.																	
S. S. Colorado, N. 31° 36′, W. 79° 19′†	30.12	765.0	69	20.6		sw.			2	1		wsw.	o	o	mod.	sw.	clear.
MERCHANTS' EXPRESS LINE.																	
S. S. Freja, New York, N. Y.*†	29.88	758.9	47	8.3	85	calm			0				rain	rain			
S. S. Hermod, N. 40° 22′, W. 71° —′ *†	29.72	754 9	41.0	5.0		s.			2	10		sw.	6 h'r	light	sm'h	sw.	drizzling.
MERCHANTS STEAMSHIP LINE.																	
S. S. Glenfyne, N. 25° 00′, W. 59° 00′	29.78	756.4	76	24.4		n.			5	0					long	n.	clear.
NATIONAL LINE.																	
S. S. Erin, N. 49° 41′, W. 15° 31′	30.00	762.0	52	11.1		ssw.			4	8		w.	6 h'r	driz	long	w.	overcast.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																	
S. S. Niagara, N. 38° 21′, W. 74° 53′*†	30.01	762.2	54	12.2		sw.			2	8		sw tow.					drizzling.
NEW YORK HERALD WEATHER SERVICE.																	
S. S. Alvena, N. 19° 42′, W. 74° 35′*†	29.94	760.5	78	25.6		ne.			4							ene.	showery.
S. S. City of Washington, N. 31° 00′ W. 79° 30′*†	30.20	767.1	75	23.9		sw.			3							ne.	fine.
S. S. Olbers, N. 47° 11′ W. 80 00*†	30.20	767.1	60	15.6		sw.			5-6							nw.	
S. S. P. Caland, N. 39° 30′, W. 51° 10′	29.85	758.2	50.0	10.0		nnw.			6						6	nnw.	squally.
NORTH GERMAN LLOYD																	
S. S. Hermann, N. 44° 57′, W. 47° 49′*†	29.56	750.8	34.7	1.5		nnw.			6	5		nnw.	o	o	r'gh	n.	clearing.
S. S. Hohenzollern, S. 16° 15′, W. 37° 09′*	30.00	762.0	84.9	29.4		ese.			3	1		ese.	o	o	3	se.	clear.
S. S. Kronprinz F. Wilhelm, N. 49° 50′, W. 14° 10′	29.99	761.7	52.7	11.5		wsw.			4-5	10		sw.	o	o	4-5	wsw.	foggy.
S. S. Neckar, N. 46° 13′ W. 62° 54′	30.12	765.0	48.2	9.0		wnw.			2	10		wnw.	o	o	light	n.	cloudy.
S. S. Oder, N. 48° 09′, W. 37° 34′*	29.18	741.2	54.5	12.5		w.			3	4		w.	rain	rain	r'gh	wnw.	misty.
S. S. Ohio, N 48° 50′, W 23° 15′	29.86	758.4				ssw.			6	10		sw.	8 h'r	8 h'r	mod.	wnw.	raining.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																	
S. S. Belgic, Hong-Kong, China†	30.19	766.8	56	13.3	93	ese.			2	8		ne.	o	o			cloudy.
S. S. Gaelic, N. 35° 27′, E. 166° 00′†	29.86	758.4	62	16.7	66	nw.			4	4		w.			mod.	w.	clear.
OCEAN STEAMSHIP COMPANY.																	
S. S. City of Augusta, N. 37° 14′ W. 74° 49′†	30.05	763 3				sw.			4	3					sm'h		smoky.
S. S. Seminole, Boston, Mass†	29.92	760.0	48	8.9		sse.			1	10		se.	o	o			threatening
OREGON RAILWAY AND NAVIGATION COMPANY.																	
S. S. City of Chester, N. 45° 29′ W. 124° 17′*†	30.51	774.9	45	7.2	61	calm			0	2		nw.			sm'h		fair.
S. S. Oregon, N. 39° 52′ W. 124° 41†	30.33	770.4	50	10.0	58	n.			4	0					light	nw.	clear.
PACIFIC COAST STEAMSHIP COMPANY.																	
S. S. Ancon, San Francisco, Cal†	30.27	768,8	48	8.9	56	ne.			4	0							clear.
S. S. Geo. W. Elder, New Tacoma, W. T.†	30.43	772.9	40	4.4		e.			4	6		se.	o	o			cloudy.
S. S. Idaho, San Francisco, Cal†	30.29	769.4	50	10.0	37	sw.			4	0							clear.
S. S. Orizaba, N. 34° 27′ W. 120° 25′†	30.12	765.0	52	11.1	73	nw.			2			nw.	o	o	light	nw.	clear.
S. S. State of California, San Francisco, Cal.†	30.29	769.4	48	8.9	70	nne.			4	0							clear.
S. S. Victoria, San Francisco, Cal†	30.31	769.8	46	7.8	69	sw.			4	0							clear.
PACIFIC MAIL STEAMSHIP CO.																	
S. S. Australia, S. 23° 56′, W. 177° 06′†	29.75	755.6	76	24.4	100	se.			1	10			3 h'r	3 h'r	sm'h	se.	hazy.
S. S. City of Rio de Janeiro, N. 8° 05′, W. 83° 14′†	30.12	765.0	79	26.1	74	ese.			2	8		e.	o	o	sm'h		clearing.
S. S. City of Sydney, Sydney, N. S. W†	30.08	764.0	72	22.2	67	s.			5	2		sw.	o	o	sm'h		fair.
S. S. City of Tokio, N. 31° 50′ E. 133° 18′†	30.20	767.1	55	12.8	62	nne.			5	5		ne.	o	o	sm'h		fair.
S. S. Colima, N. 11° 20′ W. 87° 20′†	29.90	759.4	76	24.4	77	ne.			5	1		nw.	o	o	large	ene.	clear.
S. S. Colon, N. 22° 45′ W. 74′ 24′†	30.20	767.1	76	24.4		ene.			2	2		e.			sm'h	e.	fair.
S. S. Granada, N. 34° 25′ W. 120° 24′†	30.13	765 3	55	12.8	93	nw.			4	0			o	o	mod	wsw.	clear.
S. S. South Carolina, Acajutla, San Salvador.†	29.97	761.2	79	26.1	74	var.			1	5		var.	o	o	sm'h		smoky.
S. S. Zelandia, S. 12° 16′ W. 169° 34′	29.85	758.2	77	25.0	79	e.			2	5		e.			sm'h		fine.
QUEBEC STEAMSHIP CO.																	
S. S. Muriel, Martinique, W I.						ene.			3	0			o	o	sm'h		fair.
S. S. Bermuda, Arroyo, W. I.†	30.12	765.0	72	22.2		ene.			2	9		e.	1 h'r	1 h'r			raining.
RED STAR LINE.																	
S. S. Belgenland, N. 45° 29′, W. 38° 35′†	29.32	744.7	62	16.7	56	ssw.			5	9		ssw.	16 h'r	h'vy	r'gh	ssw.	heavy rain.
S. S. Rhynland, N. 49° 38′ W. 7° 50′	30.14	765.5	53	11.7	73	w.			2	5		w.	0.1	3.	long	wnw.	fair.
S. S. Switzerland, N. 47° 59′ W. 26° 43′†	29.79	756.7				ssw.			5	10		sw.	o	o	h'vy	wsw.	misty.
S. S. Vaderland, Antwerp, Belgium*†	29.70	754.4	40	4.4		ssw.			6	10			o	o			overcast.
S. S. Waesland, N. 40° 21′ W. 68° 05′	30.13	765.3	37	2.8		sse.			4	10		sw.	6 h'r	6 h'r	sm'h		cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch	Mill.			
ROTTERDAM LINE.																		
S. S. Schiedam, N. 49° 12′ W. 23° 13′*..	29.77	756.1	55.8	13.2	98	sw.			6		9		wsw.	4 h'r	light	r'gh	sw.	fair.
S. S. W A. Scholten, Rotterdam, Netherlands*..	29.38	746 2	50.4	10.2	93	ssw.			7		5		sw.	1 h'r	1 h'r			
THINGVALLA LINE.																		
S. S. Thingvalla, N. 40° 21′ W. 65° 43′†	30.17	766 3	41.9	5.5		e.			2		10		e.	o	o	sm'h	e.	covered.
WARREN LINE.																		
S. S. Iowa, N. 42° 00′ W. 59° 43′*†	30.15	765.8	34	1.1		nnw.			3		10		nnw.	o	o	light	nne.	cloudy.
WHITE STAR LINE.																		
S. S. Celtic, Liverpool, Eng.*†	29.75	755.6	44	6.7	84	nw.			5		5		nw.	o	o			fair.
S. S. Republic, N. 45° 49′, W. 41° 49′†	29.31	744.5	52	11.1	86	wnw.			6		8		wsw.	o	o	mod.	wnw.	cloudy.
WILSON LINE.																		
S. S. Salerno, N. 40° 37′ W. 74° 03′†	29.91	759.7				se.			1		10							drizzling
MISCELLANEOUS.																		
Sch. Addie Fuller, Cedar Keys, Florida†	30.26	768.6	67	19.4	84	ssw.			3	0	0			o	o			clear.
Bk. Adelaide, N. 1° 48′, W. 31° 02°/*†	30.01	762.2	80	26.7		ese.			2		2		se.	3 h'r	h'vy	mod.	cross	fair.
Bk. Alpha, N 27° 35′, W. 73° 05′.*†	30.22	767.6	70	21.1		ne.			3		10			o	o	long	ne.	fair.
Sch. Annie M. Law, N. 44° 31′, W. 51° 40′*†	29.70	754.4	34	1.1	62	nw.			4		10			6 h'r	sleet	mod.	nnw.	sleeting
Schr Annie R. Lewis, N 35° 07′, W. 72° 30′*†	30.13	765.3	66	18.9		sw.			4		1		nw.	o	o	rg'h	sw.	clear.
Schr. Annie M. Smull, N. 3° 06′, W. 27° 25′*†	29.90	759.4	89	31.7		w.								o	o	mod.	se.	clear.
Bk. Bergenseren, N. 33° 43′, W. 51° 50′†..	29.94	760.5				nnw.			5				nw.	rain	rain	5	nw.	gloomy.
Bk. Celestina, N. 32° 55′, W. 39° 38′*†	30.05	763.3				sse.			5		8		sw.	o	o	con.	sw.	cloudy.
Bk. E. L. Pettengill, S. 44° 11′ W 79° 21′†	30.30	769.6				nnw.			3		10		nw.	o	o	long	r'gh	cloudy.
S. Enoch Train, Bremerhaven, Germany*	29.53	750.0				w.			9		6		w.	shr's	shr's			squally.
U. S. F. C. S. FishHawk, Yorktown, Va.†	30.07	763.8	59	15.0	88	ssw.			3		10		ssw.	0.04	0.1			cloudy.
Bk. Freya, N. 25° 31′, W. 68° 49′			70	21.1		ne.			3		5		ne.	o	o	mod.	nw.	fair.
S. Grecian, N. 32° 17′, W. 160° 16′*†	30.35	770.9	61	16.1		nne;			4		0			o	o	mod.	nw.	clear.
Bk. Geo. Booth, S. 29° 49′, W. 25° 20′*†	29.90	759.4				ene.			4					o	o	sm'h	w.	clear.
Bk. Granville, N. 2° 40′, W. 27° 34′*†	30.11	764.8				calm			0				ese.	rain	rain	sm'h		cloudy.
Schr Henry Denison, N. 21° 40′, W. 61° 19′†	30.14	765.5				nne.			3		2		e.	o	o	mod.	se.	fair.
Bk. Johanne Auguste, S. 28° 42′, E. 84° 15′*†	29.94	760.5				e.			3		3		ese.	2 h'r	light	sm'h		fair.
Bk. Kate Cann, N. 41° 20′, W. 48° 50′						se.			2		10		nne.	1 h'r	light	long	n.	light rain.
Bkt. Kryolith, N. 38° 18′, W. 48° 03′*†	29.64	752.8				nw.			6		5		nne.	o	o	cross	var.	clearing.
S. S. Lamperts, N. 38° 21′, W. 57° 50′*	29.97	761.2	51.5	10.8	79	n.			6		10					5		overcast.
Schr. Maggie Abbot, N. 30° —′ W. 72° —′*†	30.18	766.6				e.			3					o	o	mod.	n.	clear.
S. S. Malabar, N. 37° 04′ W. 70° 05′*†	29.82	757.4				sw.			6		8		ssw.	o	o	r'gh	sw.	hazy.
Bk. Pawashick, N. 160° 07′ W. 57° 56′*†	30.35	770.9	75	23.9	81	e.			4		1		e.			mod.		clear.
Bk. Peppina, N. 40°, 34′ E. 18° 52′†	29.90	759.4	63	17.2	72	se.			6		10					r'gh	se.	drizzling.
Bk. Pilgrim, S. 44° 38′, E. 21° 20′*†	29.40	746.7				w.			6		5		w.	o	o	long	w.	fair.
Bk. Stella, S. 44° 36′, W. 52° 48′*	29.52	749.8	59.0	15.0	92	sw.			8		9		sw.			r'gh	sw.	raining.
Bk. Sunbeam, N. 21° 27′, W. 53° 48′*†	30.11	764.8	76	24.4	82	calm			0		0			o	o	sm'h		clear.
S. Wm. Woodbury, Bremerhaven, Germany*†	29.20	741.7	47	8.3	55	w.			4		1		w.					

Data, as appearing in the International Bulletin of similar date.

Isobars in *black* exhibit atmospheric pressure at sea-level, and are charted from data as reported by the several observers.

Isotherms in *red* exhibit temperature of air, similarly charted.

Broken or dotted lines indicate that the lines so broken are doubtful.

Arrows, when charted, fly with the wind and exhibit wind-direction and force.

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W. B. Hazen

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

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INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON MARCH 7, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
ALGERIAN.																			
Nemours	.....	.....	30.32	770.1	66.6	19.2	79	sw.	.....	.....	3	.....	0	.....	.....	c	0	clear	Moiroud.
Algiers	.....	.....	30.32	770.1	59.7	15.4	70	nw.	.....	.....	2	.....	5	.....	.....	inap.	inap.	cloudy	Nicolas.
La Calle	.....	.....	30.17	766.2	60.1	15.6	73	nw.	.....	.....	5	.....	4	.....	.....	1.181	30.0	cloudy	Fonfrède.
Tunis	.....	.....	30.07	763.8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.33	770.3	54.0	12.2	94	n.	.....	.....	2	.....	2	.....	.....	0	0	fair	Dumas.
Tebessa	.....	.....	30.18	766.5	45.0	7.2	91	nw.	.....	.....	5	.....	7	.....	.....	inap.	inap.	very cloudy	Derché.
Geriville	.....	.....	.....	.....	50.7	10.4	33	n.	.....	.....	3	.....	8	.....	.....	0	0	very cloudy	Lonchamp.
Laghouat	.....	.....	30.36	771.1	57.2	14.0	55	n.	.....	.....	1	.....	1	.....	.....	0	0	very fair	Herbin.
Biskra	.....	.....	30.24	768.0	68.4	20.2	27	nw.	.....	.....	6	.....	5	.....	.....	0	0	cloudy	Malau.
AUSTRALIAN.																			
Melbourne, Victoria	29.80	756.9	29.89	759.2	71.2	21.8	57	ne.	4	1.8	.....	.....	2	.....	.....	0	0	fine	R. L. J. Ellery.
AUSTRO-HUNGARIAN.																			
Agram	29.69	754.0	30.24	768.1	54.7	12.6	55	calm	.....	.....	0	.....	3	.....	.....	0	0	.....	Prof. Ivan Stozir
Cracow, I. R Observatory	29.46	748.3	30.25	768.4	41.7	5.4	52	w.	16.8	7.5	.....	.....	9	.....	.....	0	0	.....	Dr. Wierzbiski.
Eperies	29.25	743.0	30.15	765.8	46.0	7.8	48	n.	.....	.....	3	0	2 s	.....	.....	0	0	.....	Julius Mikolik.
Gratz	28.95	735.4	30.22	767.6	50.7	10.4	64	s.	.....	.....	2	.....	3	.....	.....	0	0	.....	Andreas Rospini.
Hermannstadt	28.62	727.0	30.05	763.3	51.8	11.0	85	sw.	.....	.....	1	.....	10	.....	.....	0	0	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.98	736.2	30.37	771.3	45.0	7.2	69	wnw.	.....	.....	2	.....	8	.....	.....	0.051	1.3	cloudy	The Staff.
Lemberg	29.09	738.8	30.10	764.6	41.2	5.1	58	nw.	.....	.....	3	.....	10	.....	.....	0	0	.....	Dr. T. Stanecki.
Pola	30.05	763 2	30.16	766.0	60.4	15.8	43	ene.	.....	.....	3	.....	4	.....	.....	0	0	.....	I. R. Hydrographic Office.
Szathmar	29.57	751.1	30.04	762.9	50.7	10.4	71	nw.	.....	.....	2	.....	8	.....	.....	0	0	.....	Joseph Midlinszky, S. J.
Szegedin	29.85	758 3	30.14	765.5	54.5	12.5	76	w.	.....	.....	5	.....	10	.....	.....	0	0	.....	Karl Stancel.
Trieste	30.09	764.3	30.19	766.9	61.9	16.6	35	ne.	.....	.....	2	.....	2	.....	.....	0	0	.....	Rieder.
Vienna	29.56	750.8	30.29	769.3	50.0	10.0	37	nw.	.....	.....	4	.....	2	.....	.....	0	0	.....	I. R. Central Met. Obs'y.
BRITISH.																			
Aberdeen	29.55	750.6	29.65	753.1	40.5	4.7	93	s.	13	5.8	.....	.....	9	.....	.....	blank	blank	misty	W. Boswell.
Armagh, Observatory	29.59	751.6	29.84	757.9	53.9	12.2	85	sw.	34	15.2	.....	.....	10	.....	.....	.....	.....	squally	S. Call.
Bidston, Liverpool Obs'y	.....	.....	29.98	761.5	55.9	13.3	74	sw.	35	15.6	.....	.....	6	.....	.....	.....	.....	d. clouds	John Hartnup.
Bolton, Sharples	29.44	747.8	29.98	761.5	53.3	11.8	84	sw.	18	8.0	.....	.....	9	.....	.....	.....	.....	overcast	Thomas Mackereth. [A.S.
Bradford, Yorkshire	29.56	750.8	29.96	761.0	52.1	11.2	87	sw.	.....	.....	4	.....	10	.....	.....	0.10	2.5	overcast	J. McLandsborough, F. R
Bridgetown, Barbadoes	30.02	762.5	30.04	763.0	80.0	26.7	74	ne.	.....	.....	2	.....	3	.....	.....	.....	.....	d. clouds	Pvt. J. Surgenor, A. H.C.
Cardington	.....	.....	30.12	765.0	53.6	12.0	90	sw.	.....	.....	2.0	.....	10	.....	.....	.....	.....	overcast	John McLaren.
Chatham, School M. E.	30.11	764.8	30.24	768.1	50.6	10.3	89	sw.	.....	.....	4	.....	10	.....	.....	.....	.....	overcast	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	30.05	763.3	30.28	769.1	52.6	11.4	93	sw.	.....	.....	5	.....	7	.....	.....	.....	.....	foggy	The Staff.
Fort Napier, Natal	27.55	699.8	29.76	755.9	92.0	33.3	29	ne.	.....	.....	1	.....	0	.....	.....	.....	.....	blue sky	Pvt. E. K. Annis, A. H.C.
Free Town, Sierra Leone	29.60	751.8	29.82	757.4	86.0	30.0	61	w.	.....	.....	1	.....	7	.....	.....	.....	.....	blue sky	Sergt. John Robinson.
Galway, Queen's College	.....	.....	29.84	757.9	.....	.....	.....	sw.	.....	.....	5	.....	7	.....	.....	0.51	13.0	d clouds	J. O'Donaghue.
Gibraltar, Mediterranean	30.25	768 3	30.31	769.9	66.3	19.1	73	w.	.....	.....	2	.....	0	.....	.....	.....	.....	blue sky	Cpl. O. Baldwin.
Glasgow, Observatory	29.55	750.6	29.75	755.6	50.2	10.1	90	ssw.	.....	.....	7	.....	10	.....	.....	.....	.....	raining	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	30.05	763.3	30.22	767.6	49.9	9.9	93	sw.	.....	.....	4	.....	10	.....	.....	.....	.....	overcast	The Staff.
Guernsey	30.05	763.3	30.35	770.9	51.0	10.6	100	sw.	.....	.....	1	.....	9	.....	.....	.....	.....	rain & mist	A. Collenette, F. M. S.
Kew, Observatory	30.19	766.8	30.23	767.8	51.7	10.9	86	sw.	22	9.8	.....	.....	10	.....	.....	.....	.....	threatening	The Staff.
Leicester, Museum	29.88	758.9	30.13	765.3	55.6	13.1	80	sw.	.....	.....	2	.....	8	.....	.....	.....	.....	d. clouds	J. C. Smith.
Malta, Mediterranean	29.77	756.1	29.84	757.9	61.6	16.4	77	nw.	.....	.....	3	.....	7	.....	.....	.....	.....	d. clouds	I. H. Whysall.
Nassau, Bahamas	30.23	767.8	30.27	768.8	74.0	23.3	71	e.	.....	.....	2	.....	4	.....	.....	.....	.....	d. clouds	U. S. Duncombe.
Oscott, St. Mary's College	29.58	751.3	30.10	764.5	54.3	12.4	86	ssw.	.....	.....	3	.....	10	.....	.....	.....	.....	overcast	John Mac Email.
Oxford, Radcliffe Obs'y	29.94	760.5	30.17	766.3	53.3	11.8	90	s.	.....	.....	5	.....	10	.....	.....	.....	.....	squally	The Staff.
Plymouth	30.19	766.8	30.27	768.8	52.1	11.2	96	wsw.	.....	.....	1	.....	10	.....	.....	.....	.....	rain & fog	John Merrifield.
Sandwick Manse, Orkneys	.....	.....	29.39	746.5	38.3	3.5	99	sse.	25	11.2	.....	.....	10	.....	.....	.....	.....	raining	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.87	758.7	29.94	760.5	58.6	14.8	53	nne.	.....	.....	1	.....	10	.....	.....	.....	.....	gloomy	W. H. Lyne.
Sheffield	29.73	755.1	30.01	762.2	55.9	13.3	84	sw.	.....	.....	1	.....	3	.....	.....	0.07	1.8	d. clouds	W. F. Cooper.
Silloth Rectory	29.84	757.9	29.87	758.7	49.9	9.9	92	sw.	.....	.....	6	.....	10	.....	.....	0.095	2.4	overcast	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	29.99	761.7	51.4	10.9	90	sw.	14	6.3	.....	.....	10	.....	.....	blank	blank	overcast	R. S. J. Perry.
Straifield Turgise	30.01	762.2	30.23	767.8	51.6	10.9	93	sw.	.....	.....	3	.....	9	.....	.....	.....	.....	squally	Rev. C. H. Griffiths, F. M.S.
Truro, Royal Institution	30.23	767.8	30.27	768.8	60	15.6	76	sw.	.....	.....	4	.....	3	.....	.....	.....	.....	d. clouds	W. Newcombe.
Valencia, Observatory	29.98	761.5	30.00	762.0	44.5	6.9	84	ssw.	40	17.9	.....	.....	7	.....	.....	blank	blank	misty	The Met'g'l Office.
CANADIAN.																			
Charlottetown, P. E. Island	29.88	758.9	29.92	760.0	12	—11.1	100	n.	10	4.5	.....	.....	10 n	.....	calm	0.030	0.8	light snow	H. J. Cundall, C. E.
Chatham, N. B*	30.00	762.0	30.07	763.8	12	—11.1	87	n.	11	4.9	.....	2 c	8 s	n.	n.	0.22	5.6	cloudy	G. A. Blair.
Father Point, Quebec*	30.11	764.8	30.13	765.3	7	—13.9	83	n.	25	11.2	.....	8 c	o	calm	.....	0.10	2.5	fair	J. McWilliams.
Fort Garry, Manitoba*	29.79	756.7	30.78	781.8	—20	—28.9	100	calm	o	o	.....	o	o	.....	.....	o	o	clear	James Stewart.
Halifax, N. S*	29.70	754.4	29.84	757.9	20	— 6.7	96	n.	8	3.6	.....	.....	10 n	.....	.....	0.170	4.3	light snow	A. Allison.
Kingston, Ontario*	29.92	760.0	30.28	769.1	21	— 6.1	80	nw.	15	6.7	.....	.....	10 ks	.....	nw.	inap.	inap.	light snow	A. P. Knight, M. A.
Montreal, Quebec*	29.95	760.7	30.17	766.3	17	— 8.3	73	n.	10	4.5	.....	.....	10 s	.....	.....	0.09	2.3	cloudy	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.70	754.4	30.47	773.9	8	—13.3	76	n.	10	4.5	.....	o	o	.....	.....	0.08	2.0	clear	Rev. R. Mosley.
Port Dover, Ontario	29.64	752.8	30.38	771.6	26	— 3.3	100	nw.	10	4.5	.....	5 k	o	w.	.....	0.02	0.5	fair	H. Morgan.
Port Stanley, Ontario	29.68	753.9	30.37	771.4	26	— 3.3	92	nw.	10	4.5	.....	.....	10 n	.....	nw.	0.05	1.3	light snow	M. Payne.
Quebec, Quebec*	29.78	756.4	30.13	765.3	14	—10.0	91	ne.	.....	.....	3	o	5 s	.....	ne.	0.65	16.5	fair	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.91	759.7	30.42	772 7	8	—13.3	76	nw.	5	2.2	.....	10 c	o	w.	.....	0.05	1.3	fair	W. H. McIntyre.
Saugeen, Ontario*	29.68	753.9	30.46	773.7	17	— 8.3	80	n.	10	4.5	.....	.....	10 s	.....	.....	0.03	0.8	light snow	
St. Andrews, N. B	29.85	758.2	29.90	759.4	16	— 8.9	97	ne.	14	6.3	.....	.....	10 n	.....	.....	0.35	8.9	heavy snow	
Sydney, C. B*	29.81	757.2	29.87	758.7	16	— 8.9	96	n.	10	4.5	.....	.....	10 n	.....	.....	o	o	cloudy	G. Murdock, C. E.
Toronto, Ontario*	29.98	761.5	30.39	771.9	22	— 5.6	73	nw.	23	10.3	.....	.....	10 ks	.....	w.	0.01	0.3	light snow	Magnetic Observatory.
Yarmouth, N. S*	29.75	755.6	29.82	757.4	29	— 1.7	92	calm	o	o	.....	.....	10 s	.....	s.	0.59	15.0	light snow	Lt. F. E. Wilmot, R. N.
Sub-series.																			
St. Johns, Newfoundland	29.77	756.1	30.05	763.3	5	—15.0	.....	calm	o	o	.....	o	o	.....	.....	inap.	inap.	.....	John Delany.
CAPE COLONY.																			
Cape St. Francis Lt. House	29.93	760.2	29.96	761.0	69.0	20.6	78	w.	11.7	5.2	.....	o	2 s	.....	.....	o	o	hazy	John Duthie.
Cape Town, O. G. H. Obs'y	29.98	761.5	30.02	762.5	76.8	24.9	67	s.	20	8.9	.....	10	10	.....	.....	o	o	.....	The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	OBSERVERS.
Chinese (Sub-stertes).																			
Hankow																			
Zi-Ka-Wei, near Shanghai.	30.37	771.5	30.40	772.2	40.1	4.5	87	ene.	1.1	0.5			10 k						N. Titoushkin.
Danish.																			
Copenhagen	30.12	765.1	30.17	766.3	35.2	1.8	73	nw.	24.6	11			8						
Fanöe	30.16	766.0	30.18	766.5	39.6	4.2	92	wsw.			4		10						Oversergent Fischer.
Godthaab, Greenland	29.18	741.2	29.22	742.3	— 6.9	—21.6		n.			4		10						Overloerer Lauridsen.
Stykkisholm, Iceland	28.68	728.5	28.73	729.6	32.4	0.2	96	se.			6		8						S. Kleinschmidt.
Thorshavn	29.09	738.9	29.13	739.8	37.2	2.9	93	sw.	25.7	11.5			10						A. O. Thorlacius.
Vestervig	30.02	762.4	30.11	764.7	36.7	2.6	96	wsw.			2		9					raining	Overloerer Bergh.
French.																			Loearer Oesterbol.
Agen, Normal School	29.77	756.2	30.44	773.1	57.4	12.6	79	nw.			1		kn		w.	0	0		M. Labroue, Director.
Alençon, Normal School	29.86	758.4	30.41	772.4	54.0	12.2	63	sw.			1	c	0	e.		0.08	2.		M. Nicot, Director.
Arras, Engineer School	30.10	764.4	30.35	771.0	53.1	11.7	67	sw.			3	5 ck	0	sw.		0	0	¼ covered	M. Klein, Commandant.
Avignon, Normal School	30.21	767.3	30.29	769.3	59.0	15	48	n.			4		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.89	759.2	30.46	773.7	51.3	10.7	53	e.			1		2			0.016	0.4	slightly cl'dy	M. Saillard, Director.
Beauvais, Normal School	30.18	766.6	30.46	773.6	50.4	10.2	60	ssw.			1		0			0.020	0.5	clear	M. Frère Eugène Mari.
Besançon, Normal School	29.44	747.7	30.34	770.5	52.7	11.5	83	n.			1	c	0	s.		0	0		M. Gobin, Director.
Bordeaux, Observatory	30.23	767.9	30.50	774.7	51.8	11.0	86	wnw.			1		8			0.051	1.3	very cloudy	M. Rayet, Director.
Bourges, Normal School	29.83	757.6	30.39	772.0	51.8	11	43	w.			1	cs	0			0.122	3.1		M. Postel, Director.
Brest, Naval Observatory	30.16	766.0	30.40	772.2	53.2	11.8	95	sw.			2		1c		sw.	0.008	0.2	raining	M. de Kermaree, Dir.
Caen, Normal School	30.30	769.5	30.37	771.4	56.8	13.8	75	sw.			3		8		w.	0.004	0.1	very cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	30.04	763.0	30.37	771.3	52.0	11.1	63	s.			1		0			0.016	0.4	clear	M. Jadot, Director.
Charleville, Normal School	29.90	759.5	30.43	772.8	50.7	10.4	46	w.			1		0			0	0	clear	M. Grimard, Director.
Clermont-Ferrand Obs'y	29.06	738.2	30.45	773.5	50.0	10.0	65	nne.			1		0			0.094	2.4	clear	M. Alluard, Director.
Cluny, Normal School	29.56	750.9	30.42	772.7	50.0	10	74	nw.			2		6		wnw.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.59	751.5	30.48	774.2	49.5	9.7	52	nw.			1	2 c		nw.	nw.	0.047	1.2	slightly cl'dy	Dr. Coulet, Director.
Gap, Normal School	27.62	701.6	30.17	766.2	53.6	12	54	n.			2					0	0		M. Jeangirard, Director.
Gréasque, du. Rhone	29.08	738.7	30.21	767.2	60.3	15.7	41	n.			1		2		sw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.54	750.4	30.32	770.2	54.1	12.3	56	nw.			3		kn		ne.	0	0		M. Ablard, Director.
Guéret, Normal School	28.90	734.1	30.52	775.3	47.3	8.5	65	n.			1		0			0.012	0.3	clear	M. Rivoire, Director.
Lamballe, Normal School	30.13	765.3	30.41	772.3	53.6	12	87	wsw.			2		5		wsw.	0	0	cloudy	M. Oillitrault, Director.
Lescar, Normal School	29.87	758.8	30.45	773.4	57.2	14.0	78	nw.			1		5			0.31	8.	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	30.36	771.1	30.46	773.7	55.4	13.0	88	sw.			4		10			0	0	covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.33	745.0	30.41	772.4	52.5	11.4	62	n.			2	0	2 n		n.	0	0	slightly cl'dy	M. André, Director.
Mans, Normal School	30.16	766.1	30.48	774.2	49.1	9.5	70	w.			1		5		nw.	0	0	cloudy	M. Piboen, Director.
Marseille, Observatory	29.95	760.6	30.22	767.5	64.0	17.8	61	nnw.			2		2		nw.	0	0		M. Stephan, Director.
Montlouis l'instituteur	25.05	636.3	29.89	759.3	41.0	5.0	48	nw.	18.6	8.3			3		wsw.	0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	30.15	765.7	30.28	769.1	63.1	17.3	47	nne.			3		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.63	752.6	30.43	773.0	47.5	8.6	48	wnw.			1	2 c	0			0	0	slightly cl'dy	M. Husse, Director
Nantes, Observatory	30.34	770.6	30.50	774.7	57.0	13.9	77	sw.			0–2		10 kn		wsw.	0.055	1.4		M. Larocque, Director.
Perpignan, Observatory	30.21	767.4	30.33	770.3	60.3	15.7	43	n.	29.8	13.3			1			0.016	0.4		Dr. Fines, Director.
Pic-du-Midi, Summit	21.41	543.9			18.3	— 7.6		ne.			2		1		ne.	0.181	4.6	clear	Gen'l de Nansouty, Dir.
Privas, Normal School	29.26	743.3	30.35	770.8	53.8	12.1	54	n.			1		5	s.	s.	0	0	cloudy	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.43	645.9			32.7	0.4	87	sw.			1		0			0.217	5.5	clear	M. Alluard, Director.
Rochefort, Naval Obs'y	30.46	773.6	30.49	774.4	58.3	14.6	72	calm			0		2		nw.	0	0	¼ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	30.25	768.4	30.51	774.9	55.9	13.3	73	nw.			1		5		nw.	0.012	0.3	cloudy	M. Mouillot, Director.
Rodez, Normal School	28.22	716.8	30.41	772.3	48.2	9	61	nw.			1		1		nw.	0	0	clear	M. Serger, Director.
Rouen, Normal School	30.37	771.5	30.42	772.7	57.2	14	58	sw.			1		8			0.075	1.9	very cloudy	M. Platrier, Director.
Saint Maur, Observatory	30.29	769.4	30.46	773.6	52.3	11.3	58	ssw.			1		1		sw.	0.024	0.6		M. Renou, Director.
Toulouse, Observatory	29.78	756.3	30.51	774.9	54.7	12.6	69	w.			2		5		nw.	0	0	cloudy	M. Bailland, Director.
Versailles, Observatory	29.94	760.5	30.43	773.0	51.8	11.0	52	w.			1					0	0		Dr. A. Bérigny, Director.
Sub-stertes.																			
Paris, Montsouris Obs'y	30.17	766.3	30.46	773.7	52.7	11.5	49	s.			1		0			0.008	0.2		M. Marié Davy, Director
German.																			
Bamberg	29.53	750.0	30.39	772.0	44.6	7.0	44	nw.			3	0	1 s			0	0		Prof. Dr. Hoh.
Berlin	30.12	765.1	30.31	769.8	39.4	4.1	54	sw.			3		1c			0.094	2.4		Prof. Dr. Arndt.
Breslau	29.76	755.9	30.30	769.5	40.8	4.9	37	wnw.			4		8			0.024	0.6		Royal University Obs'y.
Carlsruhe	30.00	761.9	30.45	773.4	48.6	9.2	47	nw.			2		0			0	0		Albert Senz.
Cassel	29.61	752.0	30.32	770.1	46.2	7.9	41	w.			4		5	sw.		0	0		Dr. H. Möhl.
Frankfort on the Main	30.04	762.9	30.41	772.4	48.9	9.4	50	sw.			1		2			0.039	1.0		Physical Society.
Friedrichshafen	28.94	735.0	30.41	772.3	48.4	9.1	71	ne.			3		4	wnw.		0	0		Wilhelm, Chief Tel.
Hamburg	30.21	767.4	30.31	769.8	41.7	5.4	65	w.			3		9			0	0		E. Preller.
Kiel	30.20	767.0	30.21	767.4	40.1	4.5	57	w.			4		7			0.020	0.5		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.95	760 6	30.38	771.7	43.2	6.2	48	w.			2		8	wnw.		0.020	0.5		H. Leppig, Asst.
Magdeburg	30.16	766.0	30.36	771.1	41.4	5.2	56	w.			3	0	6 ks		nw.	0.016	0.4		Dr. Assmann.
Memel	29.91	759.7	29.96	760 9	33.1	0.6	100	nw.			7	0	2 k						Issermann.
Munich	28 53	724.7	30.42	772.6	45.3	7.4	59	nw.			2		4	sw.		0.012	0.3		Central Station.
Neufahrwasser	30.08	764.0	30.10	764.4	35.8	2.1	62	nw.			5		10			0.020	0.5		A. Lothes.
Neustadt, Palatinate	29.89	759.2	30.43	772.8	48.2	9.0	60	calm			0		2	w.		0	0		Dicknether.
Stuttgart	29.46	748.2	30.37	771.5	47.3	8.5	48	n.			1		2	w.		0	0		Prof. Dr. Schoder.
Wustrow	30.24	768.0	30.26	768.6	39.4	4.1	66	wnw.			4	0	3 s			0	0		Profs. Brandes & Reimer.
Greek.																			
Athens	29.54	750.3	29.93	760.2	61.7	16.5		e.			0.5		10			0.343	8.7	covered	Schmidt & Wourlisch.
Indian.																			
Bellary	28.40	721.3			93.0	33.9	17	e.	3.8	1.7		3 ck	4	sw.		0	0	d. clouds	
Kurrachee	29.99	761.6	30.04	762.9	81.8	27.7	71	w.	23	10.3			0			0	0	misty	
Deesa	29.42	747.4	29.89	759.2	90.5	32.5	11	nnw.	10.3	4.6			4	nw.		0	0	d. clouds	
Bombay	29.86	758.5	29.90	759.5	79.7	26.5	69	nw.	16	7.2			5	w.		0	0	d. clouds	
Poona, Yarrowda	28.01	711.3	29.83	757.6	88.3	31.3	24	w.	21	9.4			5	wsw.		0	0	d. clouds	
Belgaum	27.34	694.4	29.83	757.6	86.7	30.4	38	sw.	6	2.7			0			0	0	blue sky	
Lahore	29.23	742.5	29.99	761.6	75.9	24.4	17	n.	2.8	1.2			0			0	0	blue sky	
Roorkee	29.00	736.6	29.91	759.6	77.4	25.2	21	nw.	4.4	2.0			0			0	0		
Agra	29.32	744.8	29.89	759.2	78.2	25.7	17	calm	4.6	2.1			0			0	0		
Nagpur	28.82	731.9	29.83	757.7	93.9	34.4	28	calm	3.7	1.6			2	sw.		0	0	d. clouds	
Jubbulpore	28.53	724.6	29.86	758.4	90.9	32.7	18	nw.	3.2	1.4			0			0	0	blue sky	
Lucknow	29.57	751.2	29.94	760.5	93.0	33.9	13	wnw.	3.8	1.7			3	w.		0	0	blue sky	
Allahabad	29.53	750.1	29.84	757.9	89.5	31.9	26	nw.	2.1	0.9			0			0	0	blue sky	
Patna	29.63	752.5	29.81	757.2	88.2	31.2	31	w.	6.4	2.9			0			0	0	blue sky	
Hazaribagh	27.84	707.2	29.83	757.6	85.8	29.9	31	nw.	9.1	4.1			0			0	0	blue sky	
Cuttack	29.78	756.3	29.86	758.4	90.1	32.3	24	ssw.	1.5	0.7			0			0	0	blue sky	
Calcutta, Allpore	29.78	756.3	29.80	756.9	88.2	31.2	42	s.	4.0	1.8			2			0	0	d. clouds	
Dhubri	29.74	755.3	29.86	758.4	79.8	26.6	47	calm	3.0	1.3			3	sw.		0	0	d. clouds	
Chittagong	29.78	756.5	29.87	758.8	78.7	25.9	75	ese.	3.8	1.7			0			0	0	blue sky	
Sibsagar	29.50	749.4	29.85	758.1	72.0	22.2	78	ne.	2.5	1.1			0			0	0	blue sky	
Jeypore	28.50	723.8	29.94	760.4	82.9	28.3	21	ne.	6.3	2.8			6	w.	w.	0	0	d. clouds	
Zanzibar, Africa	29.82	757.4			84.7	29.3	63	ne.	10.0	4.5			2			0	0	d. clouds	
Trichinopoly	29.66	753.4			88.0	31.1	46	e.	1	0.4			8		ene.	0	0	d. clouds	
Italian.																			
Udine	29.79	756.7	30.21	767.2	60.3	15.7	36	s.	1.3	0.6			2			0	0	d. clouds	
Milan	29.74	755.3	30.26	768.6	58.5	14.7	47	s.	2.5	1.1			1			0	0		Prof. Giovanni Clodig.
Padua	30.11	764.7	30.22	767.5	60.6	15.9	44	ese.	12.5	5.6			1			0	0		Prof. Schiaparelli.
Moncalieri	29.33	745.0	30.25	768.4	56.3	13.5	56	e.	3.1	1.4			0			0	0		Prof. Dott. Lorenzoni.
Genoa	29.98	761.6	30.18	766.5	60.4	15.8	40	n.	8.1	3.6			1			0	0		Prof. P. F. Denza.
Mondovi	28.33	719.5	30.27	768.8	55.2	12.9	35	w.			4		2			0	0		Prof. G. M. Garibaldi.
													0			0	0		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
ITALIAN.—Continued.																			
Pesaro	30.13	765.3	30.18	766.5	52.9	11.6	79	n.	18.1	8.1	.....	.....	7	.....	.....	0.283	7.2	.....	Prof. Luigi Guidi.
Florence	29.90	759.5	30.16	766.0	60.1	15.6	42	ne.	.....	.....	6	.....	5	.....	.....	0	0	.....	Prof. Costantino Pitter.
Leghorn	30.04	762.9	30.12	765.1	61.9	16.6	42	ne.	3.8	1.7	.....	.....	4	ene.	.....	0	0	.....	Prof. P. Monte.
Rome	29.81	757.2	29.98	761.6	64.8	18.2	43	n.	12.5	5.6	.....	.....	10	.....	.....	0.157	4.0	.....	Prof. P. S. Ferrari.
Lecce	29.66	753.3	29.91	759.8	57.0	13.9	77	se.	12.5	5.6	.....	.....	8	.....	.....	1.177	29.9	.....	Prof. C. de Giorgi.
Cosenza	28.94	735.0	29.84	757.9	52.2	-11.2	73	nw.	3.1	1.4	.....	.....	10	n.	.....	0.067	1.7	.....	Prof. D. Conti.
Cagliari	29.82	757.3	30.01	762.2	61.3	16.3	54	nnw.	.....	.....	2	.....	6	e.	.....	0.004	0.1	.....	Prof. A. Pacinotti.
Palermo	29.64	752.8	29.89	759.2	61.0	16.1	59	n.	12.5	5.6	.....	.....	10	nnw.	.....	0.598	15.2	.....	Prof. G. Ciacciatore.
Syracuse	29.72	754.9	29.76	756.0	58.3	14.6	67	e.	9.8	4.4	.....	.....	9	nne.	.....	0.354	9.0	.....	Prof. Vincenzo Guiliano.
Sub-series.																			
Naples, S. R	29.39	746.4	29.91	759.6	59.4	15.2	60	ne.	15.4	6.9	.....	.....	5	ne.	.....	0.106	2.7	.....	Prof. T. Brioschi.
Stelvio	22.30	566.5	.....	.....	28.0	— 2.2	61	ne.	.....	.....	2	.....	1	.....	.....	0	0	clear	Prof. P. F. Denza.
Valdobbia	22.34	567.5	.....	.....	32.2	0.1	62	e.	.....	.....	2	.....	0	.....	.....	0	0	clear	Prof. P. F. Denza.
JAPANESE.																			
Aomori	30.10	764.5	30.13	765.3	30.4	— 0.9	96	ssw.	14.9	6.7	.....	.....	9 ks;s	.....	.....	0.145	3.7	cloudy	K. Ogawa.
Hakodate	30.10	764.5	30.11	764.8	33.0	0.6	75	nnw.	7.2	3.2	.....	.....	0	.....	.....	0.065	1.6	clear	
Hiroshima, I. M. Obs'y†	30.25	768.3	30.27	768.8	40.4	4.7	72	wnw.	3.1	1.4	.....	ck	10 s	.....	.....	0	0	overcast	K. Sasaki.
Kanazawa	30.14	765.5	30.25	768.3	40.7	4.8	70	w.	6.3	2.8	.....	ck	10ks;n	.....	.....	0.095	2.4	.....	S. Endo.
Kioto	30.08	764.0	30.26	768.6	39.5	4.2	77	ssw.	0.8	0.4	.....	ck	8s	.....	.....	0	0	cloudy	M. Tojima.
Kochi	30.24	768.1	30.26	768.6	48.6	9.2	74	nw.	2.1	0.9	.....	cs	10 s	.....	s.	0	0	cloudy	
Nagasaki, I. M. Obs'y	30.10	764.5	30.31	769.9	43.7	6.5	65	sw.	0.7	0.3	.....	.....	10 s	.....	.....	0	0	overcast	S. Takehayashi.
Nilgata	30.22	767.6	30.25	768.3	34.6	1.4	78	sse.	3.1	1.4	.....	0	0	.....	.....	0.055	1.4	clear	
Nobiru	30.20	767.1	30.22	767.6	33.3	0.7	90	sw.	7.5	3.3	.....	0	0	.....	.....	0	0	clear	H. Midzushina.
Supporo	.....	.....	.....	.....	29.6	— 1.3	62	nw.	15.0	6.7	.....	.....	6	.....	.....	0.010	0.3	overcast	
Tokei Obs'y, Yeddo	30.13	765.3	30.20	767.1	39.6	4.2	82	e.	3.5	1.6	.....	ck	2 ks	.....	w.	0	0	clear	The Staff.
Wakayama	30.21	767.3	30.27	768.8	38.7	3.7	73	nne.	5.0	2.2	.....	0	0	.....	.....	0	0	clear	Y. Kuwamura.
MAURITIUS.																			
Mauritius Observatory	29.64	752.8	29.83	757.7	79.0	26.1	88	ene.	7.0	3.1	.....	.....	10ks;n	.....	nne.	0.52	13.2	overcast	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.65	600 7	29.87	758.7	58.1	14.5	73	w.	.....	.....	.....	0	0	.....	.....	0	0	foggy	Vicente Fernandez.
Leon	24.36	618.7	30.06	763.6	55.8	13.2	74	nw.	.....	.....	1	0	0	.....	.....	0	0	foggy	Prof. M. Leal.
Mazatlan	29.67	753.7	29.94	760.3	62.0	16.7	97	e.	.....	.....	.....	1 cs	0	.....	.....	0	0	misty	F. Quijano, C. E.
Mexico, Central Obs'y	23.06	585.8	30.16	765.9	49.8	9.9	76	calm	0	0	.....	0	0	.....	.....	0	0	fine	M. Tena, M. D.
Morelia	24.23	615.3	30.37	771.3	55.9	13.3	71	sw.	.....	.....	2	3	2	s.	s.	0	0	½ clouded	The Staff.
Pabellon, Aguascalientes	23.98	609.1	30.09	764.2	43.5	6.4	83	sw.	.....	.....	1	.....	.....	.....	.....	0	0	.....	M. V. de Leon, M. E.
Puebla, Catholic Institute	23.38	593.9	30.20	767.1	49.1	9.5	89	calm	.....	.....	0	0	0	.....	.....	0	0	clear	Prof. P. Spina.
San Luis Potosi	24.22	615.1	30.10	764.5	61.8	16.6	69	se.	.....	.....	1	0	0	.....	.....	0	0	clear	G. Barroeta, M. D.
Vera Cruz	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Zacatecas	22.50	571.6	29.94	760.5	51.3	10.9	48	wsw.	7.1	3.1	.....	0	0	.....	.....	0	0	fine	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.33	770.3	30.33	770.3	50.4	10.2	.....	sw.	.....	.....	5	.....	.....	.....	.....	0.012	0.3	.....	
Groningen	30.22	767.5	30.27	768.9	43.9	6.6	.....	s.	.....	.....	2	.....	.....	.....	.....	0	0	.....	
Helder	30.23	767.8	30.23	767.8	44.2	6.8	.....	s.	.....	.....	5	.....	.....	.....	.....	0.028	0.7	.....	
Hellevoetsluis	30.29	769.3	30.29	769.3	50.0	10.0	62	sw.	.....	.....	4	.....	.....	.....	.....	0	0	.....	
Utrecht	30.27	768.9	30.32	770.1	50.7	10.4	59	ssw.	.....	.....	4	.....	2	.....	.....	0	0	lightly cl'dy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.87	758.7	29.93	760.3	31.3	— 0.4	63	sse.	9	4	.....	.....	10	.....	.....	0.606	15.4	.....	
Brono	29.56	750.8	29.60	751.8	24.8	— 4.0	50	nw.	27	12	.....	.....	10	.....	.....	0.024	0.6	snowing	
Christiania	29.78	756.3	29.93	760.2	30.7	— 0.7	34	wsw.	7	3	.....	.....	10	.....	.....	0	0	.....	
Gjæsvær	28.41	721.5	28.43	722.1	33.1	0.6	.....	nw.	.....	.....	8	.....	10	.....	.....	.....	.....	hailing	
Lodingen	29.07	738.3	29.11	739.5	23.4	— 4.8	78	nw.	.....	.....	2	.....	10	.....	.....	0.118	3.0	snowing	
PORTUGUESE.																			
Angra, Azores	.....	.....	.....	.....	61.3	16.3	69	s.	15.4	6.9	.....	.....	3	.....	.....	0	0	.....	Dr. J. A. Sampaio.
Campo Major	29.37	746.1	30.37	771.4	66.2	19.0	47	ese.	3.1	1.4	.....	.....	1	.....	.....	0	0	.....	Dr. A. M. R. dos Santos.
Funchal, Maderia	30.24	768.0	30.32	770.2	63.9	17.7	66	e.	3.8	1.7	.....	.....	2	.....	.....	0	0	.....	Capt. D. A. de Cunha.
Lisbon, Observatory	30.08	764.1	30.45	773.4	59.2	15.1	71	nne.	8.7	3.9	.....	.....	3	wnw.	.....	0	0	.....	The Staff.
Ponta Delgada, Azores	30.24	768.0	30.31	769.8	62.2	16.8	75	s.	15.0	6.7	.....	.....	3	.....	.....	0.063	1.6	.....	
Saint Paul de Loando	29.65	753.1	29.85	758.1	82.4	28.0	87	wsw.	1.3	0.6	.....	.....	2	e.	.....	0	0	.....	
Serra da Estrella	25.63	650.9	30.44	773.2	46.8	8.2	61	se.	12.5	5.6	.....	.....	0	.....	.....	0	0	.....	(* Total for 5 days.)
RUSSIAN.																			
Akmolinski	29.22	742.1	30.41	772.3	9.1	—12.7	96	sse.	2	1	.....	0	0	.....	.....	0	0	.....	Major K. Lasarew.
Archangel	28.88	733.6	28.90	734.1	28.0	— 2.2	96	wnw.	22	10	.....	.....	10	.....	.....	0.098	2.5	snow & hail	Capt. Sseliwerstow.
Astrakhan	30.26	768.7	30.18	766.6	40.3	4.6	81	w.	2	1	.....	.....	10 s	.....	.....	blank	blank	.....	Capt. Wisganow.
Barnaul	29.99	761.7	30.54	775.6	17.1	— 8.3	88	sw.	9	4	.....	.....	10	.....	.....	0	0	.....	Meteorological Obs'y.
Dorpat	29.34	745.1	29.59	751.5	28.2	— 2.1	51	w.	16	7	.....	.....	9 ks	.....	.....	0.020	0.5	light snow	Observatory.
Ekaterinburg	28.99	736.4	29.98	761.4	38.1	3.4	70	wsw.	4	2	.....	ck	7 s	.....	.....	0	0	light clouds	Meteorological Obs'y.
Kasan	29.56	750.9	29.84	758.0	31.6	— 0.2	99	s.	4	2	.....	.....	10	.....	.....	0.059	1.5	foggy	Observatory.
Kertch	30.02	762.6	30.04	763.1	45.5	7.5	90	s.	2	1	.....	.....	9 n	.....	.....	0	0	.....	Lagorio & Sastyres.
Kieff	29.17	740.8	29.80	757.0	48.6	9.2	51	wsw.	27	12	.....	cs;ck	7 ks	.....	.....	0.004	0.1	.....	Observatory.
Lugan	29.78	756.3	29.98	761.5	49.6	9.9	62	ssw.	9	4	.....	.....	7	.....	.....	0.020	0.5	light clouds	Meteorological Obs'y
Moscow	28.93	734.8	29.41	747.1	36.3	2.4	89	s.	4	2	.....	.....	10 s	.....	.....	0.087	2.2	raining	Meteorological Obs'y.
Nikolaiev	29.97	761.1	30.04	762.9	50.7	10.4	76	s.	13	6	.....	.....	10 n	.....	.....	0	0	light clouds	Capt. Kurdakow.
Nikolaievsk, on the Amoor	29.81	757.1	29.89	759.3	10.4	—12.0	99	calm	0	0	.....	.....	10	.....	.....	0.016	0.4	snowing	Lieut. Iwanow.
Pekin, China	30.15	765.7	30.29	769.3	38.5	3.6	44	calm	0	0	.....	0	0	.....	.....	0	0	.....	Physical Observatory.
St. Petersburg	29.35	745.6	29.37	746.0	28.4	— 2.0	62	wnw.	25	11	.....	cs	3 kn	.....	.....	0	0	.....	Central Physical Obs'y.
Tashkend, Laboratory	28.73	729.7	30.35	770.8	46.6	8.1	39	n.	2	1	.....	.....	0	.....	.....	0	0	.....	Teich, A. M.
Tiflis	28.72	729.5	30.12	765.1	63.7	17.6	25	n.	9	4	.....	0	0	.....	.....	0	0	.....	Physical Observatory.
Vladivostok	30.14	765.5	30.21	767.2	17.1	— 8.3	60	calm	0	0	.....	0	0	.....	.....	0	0	.....	
Warsaw	29.69	754.1	30.13	765.3	37.4	3.0	50	nw.	22	10	.....	.....	10 ks	.....	.....	.....	.....	.....	Astronomical Obs'y.
Wilna	29.41	747.0	29.85	758.1	31.6	— 0.2	50	nw.	13	6	.....	.....	7	.....	.....	0	0	heavy cl'ds	Berg, Assistant.
Yeniseisk	29.93	760.1	30.23	767.9	20.8	— 6.2	81	sw.	7	3	.....	.....	8	.....	.....	0.028	0.7	.....	M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	30.15	765.8	30.25	768.4	59.9	15.5	68	se.	3.4	1.5	.....	.....	0	.....	.....	0	0	clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.46	773.6	30.52	775.1	57.9	14.4	77	nw.	1.6	0.7	.....	.....	10	.....	.....	0.058	1.5	covered	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.48	698.0	30.52	775.1	50.4	10.2	66	n.	2.5	1.1	.....	0	1	.....	.....	0.063	1.6	almost clear	Domingo Martin.
Madrid, Royal Obs'y	28.16	715.2	30.41	772.3	59.7	15.4	48	ne.	4.9	2.2	.....	0	0	.....	.....	0	0	clear	The Staff.
Murcia, Met. Obs'y	30.17	766.3	30.32	770.1	68.0	20.0	49	ssw.	2.5	1.1	.....	0	1	.....	.....	0	0	almost clear	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.51	749.5	30.41	772.5	59.5	15.3	72	ne.	5.6	2.5	.....	.....	0	.....	.....	0.008	0.2	clear	R. Gil Vallanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I	30.07	763.6	30.13	765.3	71.1	21.7	81	e.	7.6	3.4	.....	0	0	.....	.....	0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.87	758.8	29.93	760.2	79.1	26.2	73	se.	6.2	2.8	.....	1 c	2 ks	.....	ene.	0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.27	768.8	30.37	771.3	69.4	20.8	39	w.	7.0	3.1	.....	0	1	.....	ne.	0	0	.....	Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	30.04	763.0	30.13	765.3	75.2	24.0	81	e.	13.2	5.9	.....	2 c	4 kn	e.	e.	0.165	4.2	cloudy	Manuel Maeu.
Tuguegarao, Philippine Id's	29.84	757.9	29.97	761.2	73.9	23.3	83	nw.	6.3	2.8	.....	0	7 ck	.....	se.	0	0	cloudy	José L. Yrastorza.
SWEDISH																			
Haparanda	28.91	734.3	28.95	735.3	27.0	— 2.8	74	nw.	.....	.....	4	.....	2	.....	.....	0	0	.....	
Umea	29.15	740.4	29.20	741.7	31.5	— 0.3	83	nw.	.....	.....	8	.....	0	.....	.....	0	0	.....	
Hernosand	29.45	748.1	29.50	749.4	30.0	— 1.1	41	nw.	.....	.....	8	.....	5	.....	.....	0.047	1.2	.....	
Stockholm	29.60	751.8	29.78	756.3	25.5	— 3.6	39	wnw.	.....	.....	7	.....	0	.....	.....	0.173	4.4	.....	
Wisby	29.78	756.3	29.84	757.8	29.1	— 1.6	88	nnw.	.....	.....	7	.....	5	.....	.....	0	0	.....	
Sub-series.																			
Upsala	29.65	753.1	29.74	755.3	25.2	— 3.8	55	wnw.	14.3	6.4	0	.....	0	.....	.....	0.008	0.2	.....	S. G. Fineman.
SWISS.																			
Geneva	28.91	734.3	30.34	770.7	52.7	11.5	51	nne.	.....	.....	4	.....	.....	.....	.....	0.004	0.1	clear	The Observatory.

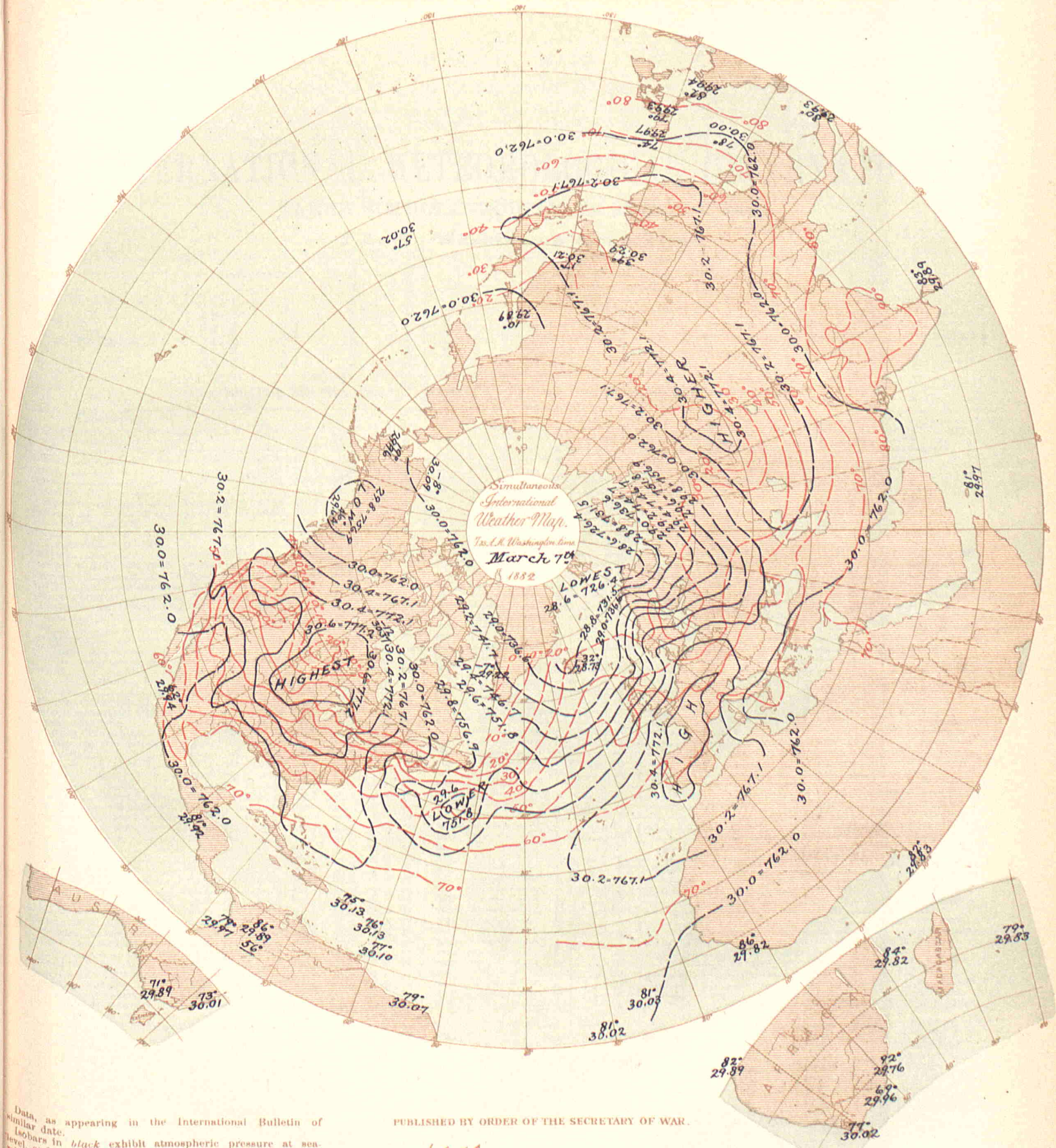
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
TURKISH.																			
Constantinople	.....	.....	29.99	761.7	58.5	14.7	57	n.	13	6.0	.....	.....	10	.....	sw.	0	0	.....	The Observatory.
Valona	.....	.....	29.96	760.9	59.2	15.1	.....	se.	.....	1	.....	.....	10	.....	.....	0	0	covered	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	29.93	760.1	75.0	23.9	45	ne.	.....	1	0	0	.....	.....	.....	0	0	.....	Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	30.03	762.7	30.12	765.0	40.2	4.6	73	w.	8	3.6	.....	.....	10 n	.....	w.	0.17	4.3	light snow	J. O. Barnes.
Alpena, Michigan	29.86	758.4	30.56	776.2	12	—11.1	80	n.	10	4.5	.....	.....	10 n	.....	.....	0.13	3.3	light snow	Jas. J. Fitzgerald.
Atlanta, Georgia	29.08	738.6	30.29	769.4	51.5	10.8	83	nw.	11	4.9	.....	.....	10 s	.....	calm	0.11	2.8	cloudy	H. Hall.
Atlantic City, New Jersey	30.22	767.6	30.23	767.8	40	4.4	73	nw.	3	1.3	.....	8 cs	hz.	.....	.....	0.01	0.3	cloudy	Jas. M. Watson.
Augusta, Georgia	30.08	764.0	30.28	769.1	64.0	17.8	68	n.	9	4.0	.....	5 c	5 s	.....	n.	0	0	cloudy	John Healy.
Baltimore, Maryland	30.27	768.8	30.32	770.1	44	6.7	51	n.	8	3.6	.....	.....	10 s	.....	.....	0	0	cloudy	Robert Seyboth.
Barnegat, New Jersey	30.20	767.1	30.22	767.6	40.5	4.7	69	w.	7	3.1	.....	7 cs	0	sw.	.....	0.11	2.8	fair	Chas. F. Merritt.
Bismarck, Dakota	28.73	729.7	30.65	778.5	—20	—28.9	100	calm	0	0	.....	0	0	.....	.....	0.01	0.3	clear	Cyrus Cramer.
Boise City, Idaho	27.56	700.0	30.48	774.2	9.5	—12.5	91	w.	2	0.9	.....	0	0	.....	.....	0	0	clear	B. E. Light.
Boston, Massachusetts	29.83	757.7	29.99	761.7	38.0	3.3	61	w.	14	6.3	.....	3 k	0	nw.	.....	0.12	3.0	clear	O. B. Cole.
Brownsville, Texas	29.99	761.7	30.04	763.0	59	15.0	93	nw.	8	3.6	.....	.....	10 s	.....	.....	0.02	0.5	cloudy	J. C. Galloway.
Buffalo, New York	29.58	751.3	30.37	771.4	26	— 3.3	76	w	17	7.6	.....	.....	10 ks	w.	0	0.01	0.3	cloudy	Wm. Finn.
Burlington, Vermont	29.82	757.4	30.14	765.5	21.7	— 5.7	77	n.	12	5.4	.....	.....	10 n	n.	.....	0.13	3.3	light snow	G. C. Schaeffer.
Cairo, Illinois	30.10	764.5	30.52	775.2	34.8	1.6	76	n.	16	7.2	.....	.....	10 s	n.	.....	0	0	cloudy	W. H. Ray.
Campo, California	27.46	697.5	30.07	763.8	28.5	— 1.9	74	e.	2	0.9	.....	0	0	.....	.....	0	0	clear	W. H. Clendenon.
Camp Thomas, Arizona	27.12	688.8	29.90	759.4	29.5	— 1.4	66	nw.	.....	.....	1	0	0	.....	.....	0	0	clear	J. T. Fitzgerald.
Cape Henry, Virginia	30.27	768.8	30.29	769.4	50	10.0	86	sw.	4	1.8	.....	3cs;ck	3 s	.....	.....	0.01	0.3	fair	J. E. Lanouette.
Cape May, New Jersey	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	inap.	inap.	.....	W. Bolten.
Castroville, Texas	29.27	743.4	30.10	764.5	51	10.6	93	e.	16	7.2	.....	.....	10 n	.....	.....	0.96	24.4	heavy rain	T. Jones.
Cedar Keys, Florida	30.20	767.1	30.22	767.6	65	18.3	84	e.	1	0.4	.....	3 ck	0	.....	.....	0	0	clear	F. W. Mixer.
Champaign, Illinois	29.67	753.6	30.53	775.4	31.2	— 0.4	62	ne.	5	2.2	.....	.....	10 s	ne.	0	0	0	cloudy	L. A. Welsh.
Charleston, S. Carolina	30.14	765.5	30.20	767.1	62	16.7	87	calm	0	0	.....	0	5 s;fg	calm	0	0	0	fair	J. H. Smith.
Charlotte, N. Carolina	29.42	747.3	30.30	769.6	52.0	11.1	59	ne.	5	2.2	.....	.....	10 s	w.	0	0	0	cloudy	D. O. Donoghue.
Chattanooga, Tennessee	29.52	749.8	30.37	771.4	50.0	10.0	77	ne.	5	2.2	.....	.....	10 n	w.	0.08	2.0	light rain	B. L. Goulding.
Cheyenne, Wyoming	24.17	613.9	30.35	770.9	9.5	—12.5	75	se.	8	3.6	.....	.....	10 s	.....	0.04	1.0	cloudy	E. McGovern.
Chicago, Illinois	29.78	756.4	30.52	775.2	28.3	— 2.1	83	n.	9	4.0	.....	.....	10 s	.....	inap.	inap.	cloudy	J. Mitchell.
Chincoteague, Virginia	30.22	767.6	30.24	768.1	47.5	8.6	77	nw.	8	3.6	.....	2 c	1 s	nw.	inap.	inap.	clear	F. C. Pratz.
Cincinnati, Ohio	29.83	757.7	30.52	775.2	35.1	1.7	69	n.	7	3.1	.....	0	0	.....	.....	0	0	clear	R. B. Watkins.
Cleveland, Ohio	29.66	753.4	30.44	773.2	30	— 1.1	69	nw.	15	6.7	.....	.....	9 s	nw.	0	0	0	cloudy	J. B. Newlin.
Coleman City, Texas	28.44	722.4	30.29	769.4	31	— 0.6	100	ne.	22	9.8	.....	.....	10 n	ne.	0.22	5.6	light rain	L. Dorman.
Columbus, Ohio	29.56	750.8	30.45	773.4	33	0.6	68	nw.	8	3.6	.....	.....	10 ks	w.	0.02	0.5	cloudy	D. Cuthbertson.
Concho, Texas	28.30	718.8	30.27	768.8	31	— 0.6	88	ne.	15	6.7	.....	.....	10 n	.....	0.02	0.5	light rain	W. W. McConihe.
Davenport, Iowa	29.87	758.7	30.56	776.2	31	— 0.6	68	w.	5	2.2	.....	.....	10 s	nw.	0	0	cloudy	R. R. Martin.
Dayton, Washington T'y	28.60	726.4	30.41	772.4	28.8	— 1.8	68	ne.	3	1.3	.....	8 ck	0	ne.	0	0	0	cloudy	H. Clifford.
Deadwood, Dakota	25.62	650.7	30.46	773.7	1	—17.2	75	sw.	1	0.4	.....	0	0	.....	0.01	0.3	clear	G. W. Scott.
Decatur, Texas	.....	.....	.....	.....	35	1.7	64	nw.	20	8.9	.....	.....	10 s	nw.	0	0	cloudy	D. J. Carr.
Delaware Breakwater, Del	30.24	768.1	30.26	768.6	43	6.1	83	n.	16	7.2	.....	5 c	0	w.	.....	inap.	inap.	fair	A. Schneider.
Denison, Texas	29.48	748.8	30.32	770.1	34.9	1.6	70	ne.	17	7.6	.....	.....	10 s	.....	0	0	0	cloudy	J. McGlone.
Denver, Colorado	24.96	634.0	30.40	772.1	17.0	— 8.3	65	se.	6	2.7	.....	4 cs	0	calm	0.02	0.5	0	fair	F. M. Neal.
Des Moines, Iowa	29.70	754.4	30.66	778.7	15	— 9.4	67	n.	7	3.1	.....	0	7 s	n.	inap.	inap.	0	fair	F. W. Conrad.
Detroit, Michigan	29.76	755.9	30.51	774.9	29.0	— 1.7	88	nw.	11	4.9	.....	.....	10 s	nw.	inap.	inap.	0	cloudy	C. F. R. Wappenhans.
Dodge City, Kansas	27.87	707.9	30.60	777.2	15	— 9.4	83	ne.	9	4.0	.....	.....	10 s	.....	0	0	0	cloudy	E. A. Thomas.
Dubuque, Iowa	29.80	756.9	30.55	776.0	25	— 3.9	88	ne.	7	3.1	.....	.....	10 s	.....	calm	inap.	inap.	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.96	761.0	30.70	779.8	13	—10.6	80	nw.	7	3.1	.....	.....	10 s	.....	nw.	0.03	0.8	cloudy	N. B. Conger.
Eagle Pass, Texas	29.43	747.5	30.25	768.3	43.4	6.3	100	n.	10	4.5	.....	.....	10 n	.....	.....	0.29	7.4	light rain	F. Belford.
Eagle Rock, Idaho	25.47	646.9	30.34	770.6	—16	—26.7	73	n.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. M. Clifford.
Eastport, Maine	29.84	757.9	29.92	760.0	18	— 7.8	91	n.	11	4.9	.....	.....	10 n	.....	.....	0.40	10.2	light snow	J. H. Melton.
El Paso, Texas	26.24	666.5	30.04	763.0	32	0.0	71	e.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.62	752.3	30.39	771.9	30	— 1.1	80	nw.	12	5.4	.....	.....	10 n	.....	.....	0.03	0.8	light snow	R. H. Paxton.
Escanaba, Michigan	29.89	759.2	30.60	777.2	16	— 8.9	91	ne.	13	5.8	.....	.....	10 n	n.	0.07	1.8	light snow	C. Dill.
Florence, Arizona	28.44	722.4	30.02	762.5	28.0	— 2.2	61	e.	4	1.8	.....	0	0	.....	.....	0	0	clear	R. R. Herman.
Fort Apache, Arizona	24.94	633.5	29.96	761.0	23	— 5.0	67	ne.	3	1.3	.....	0	0	.....	.....	0	0	clear	W. O. Barnes.
Fort Assinnaboine, Montana	27.40	695.9	30.41	772.4	— 5	—20.6	65	calm	0	0	.....	0	0	.....	.....	0	0	clear	B. O. Lenoir.
Fort Bennett, Dakota	28.99	736.3	30.69	779.5	— 6	—21.1	65	calm	0	0	.....	0	7 s	.....	0.04	1.0	fair	T. Gibson.
Fort Benton, Montana	27.44	697.0	30.42	772.7	0	—17.8	72	calm	0	0	.....	0	0	.....	0	0	clear	S. Wheaton.
Fort Buford, Dakota	28.46	722.9	30.60	777.2	—17	—27.2	100	ne.	6	2.7	.....	0	0	.....	0	0	clear	A. H. Bell.
Fort Custer, Montana	27.15	689.6	30.48	774.2	4	—15.6	52	se.	4	1.8	.....	0	0	.....	inap.	inap.	clear	V. Verge.
Fort Davis, Texas	25.18	639.6	30.06	763.5	21	— 6.1	76	ne.	8	3.6	.....	.....	10 n	ne.	inap.	inap.	light snow	J. Williams.
Fort Elliott, Texas	27.54	699.5	30.37	771.4	20	— 6.7	46	ne.	24	10.7	.....	.....	10 s	ne.	0	0	cloudy	W. J. Cundall.
Fort Gibson, Indian T'y	29.84	757.9	30.43	772.9	32.5	0.3	60	n.	12	5.4	.....	.....	10 s	n.	0	0	cloudy	J. B. Campbell.
Fort Grant, Arizona	25.08	637.0	29.91	759.7	22	— 5.6	53	calm	0	0	.....	0	0	.....	.....	0	0	clear	T. J. Macgowan.
Fort Griffin, Texas	29.03	737.3	30.38	771.6	32	0.0	88	ne.	14	6.3	.....	.....	10 n	n.	inap.	inap.	light rain	G. H. Hayne.
Fort Keogh, Montana	27.87	707.9	30.52	775.2	0	—17.8	71	e.	4	1.8	.....	0	0	.....	0	0	clear	W. B. Stockman.
Fort Macon, North Carolina	30.24	768.1	30.25	768.3	54	12.2	57	ne.	13	5.8	.....	9 k	0	ne.	.....	0	0	cloudy	L. Leonardy.
Fort McKavett, Texas	27.96	710.2	30.28	769.1	34.1	1.2	88	e.	12	5.4	.....	.....	fg.	.....	0.02	0.5	dense fog	J. E. Thatcher.
Fort Missoula, Montana	27.01	686.0	30.39	771.9	15	— 9.4	83	s.	5	2.2	.....	0	0	.....	0	0	clear	J. H. Jones.
Fort St. Michaels, Alaska	29.92	760.0	29.96	761.0	19	— 7.2	100	se.	15	6.7	.....	.....	10 s	se.	0	0	cloudy	A. P. Leavitt.
Fort Shaw, Montana	26.52	673.6	30.32	770.1	17	— 8.3	70	sw.	24	10.7	.....	0	0	.....	0	0	clear	A. L. Mathews.
Fort Sill, Indian Territory	29.11	739.4	30.40	772.1	28.5	— 1.9	69	n.	32	14.3	.....	.....	10 s	.....	0	0	cloudy	T. Cleary.
Fort Stevenson, Dakota	28.69	728.7	30.67	779.0	—23	—30.6	100	e.	3	1.3	.....	0	0	.....	0	0	clear	W. Burrows.
Fort Verde, Arizona	.....	.....	.....	.....	34	1.1	71	n.	.....	.....	4	2 cs	3 s	nw.	nw.	0	0	fair	D. Brooks.
Fort Washakie, Wyoming	24.64	625.8	.....	.....	— 0.4	—18.0	67	e.	3	1.3	.....	0	0	.....	.....	inap.	inap.	clear	T. M. Ambler.
Fredericksburg, Texas	28.36	720.3	30.12	765.0	40	4.4	100	ne.	.....	.....	.....	.....	10 n	.....	ne.	1.37	34.8	heavy rain	H. S. Miles.
Galveston, Texas	30.05	763.3	30.09	764.3	61	16.1	94	e.	20	8.9	.....	.....	10 s	.....	e.	0.10	2.5	cloudy	E. O'C. MacInerney.
Grand Haven, Michigan	29.79	756.7	30.49	774.4	26.0	— 3.3	82	nw.	8	3.6	.....	.....	10 s	.....	nw.	0.04	1.0	cloudy	W. A. Reid.
Hatteras, North Carolina	30.22	767.6	30.24	768.1	54	12.2	74	e.	12	5.4	.....	6 ck	3 k	e.	w.	0	0	cloudy	R. M. Crawford.
Helena, Montana	26.00	660.4	30.38	771.6	9	—12.8	41	calm	0	0	.....	4 c	0	.....	.....	0	0	fair	N. C. Smith.
Henrietta, Texas	29.42	747.3	30.46	773.7	29	— 1.7	88	ne.	24	10.7	.....	.....	10 s	.....	.....	0	0	cloudy	J. W. Byram.
Huron, Dakota	29.24	742.7	30.72	780.3	— 2.2	—19.0	58	n.	4	1.8	.....	5 cs	0	n.	.....	0.02	0.5	fair	S. W. Glenn.
Indianapolis, Indiana	29.68	753.9	30.52	775.2	31	— 0.6	85	n.	3	1.3	.....	.....	10 s	nw.	0	0	cloudy	O. Schutze
Indianola, Texas	30.01	762.2	30.04	763.0	63.4	17.4	93	e.	33	14.8	.....	.....	10 s	e.	0.01	0.3	cloudy	I. A. Reed.
Jacksboro, Texas	29.11	739.4	30.32	770.1	33	0.6	78	n.	18	8.0	.....	.....	10 ks	n.	0	0	cloudy	J. P. Sherry.
Jacksonville, Florida	30.18	766.6	30.23	767.8	60	15.6	87	calm	0	0	.....	4 cs	fg.	w.	.....	0	0	fair	J. W. Smith.
Keokuk, Iowa	29.86	758.4	30.55	776.0	26.0	— 3.3	67	nw.	6	2.7	.....	.....	10 s	.....	nw.	0	0	cloudy	F. Z. Gosewisch
Key West, Florida	30.15	765.8	30.17	766.3	73.0	22.8	76	e.	7	3.1	.....	0	3 k	e.	0	0	0	clear	L. M. Melbourne.
Kittyhawk, North Carolina	30.26	768.6	30.28	769.1	50	10.0	90	n.	5	2.2	.....	0	8 s	w.	0.01	0.3	cloudy	E. A. Beals.
Knoxville, Tennessee	29.33	745.0	30.39	771.9	48.2	9.0	68	ne.	4	1.8	.....	.....	10 s	.....	inap.	inap.	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.82	757.4	30.64	778.2	18	— 7.8	83	ne.	8	3.6	.....	.....	10 s	.....	inap.	inap.	cloudy	S. C. Emery.
La Mesilla, New Mexico	26.01	660.6	29.96	761.0	36.0	2.2	42	se.	12	5.4	.....	0	0	.....	0	0	clear	N. D. Lane.
Leavenworth, Kansas	29.68	753.9	30.62	777.7	16	— 8.9	67	n.	11	4.9	.....	1 cs	0	.....	0	0	clear	A. W. Browne.
Lewiston, Idaho	29.65	753.1	30.51	774.9	26.5	— 3.1	44	e.	5	2.2	.....	0	1 s	e.	0	0	clear	W. Blake.
Little Rock, Arkansas	30.05	763.3	30.38	771.6	46	7.8	60	ne.	14	6.3	.....	.....	10 s	.....	0	0	cloudy	M. F. Burrows.
Los Angeles, California	29.81	757.2	30.21	767.3	42.0	5.6	57	e.	3	1.3	.....	0	0	.....	0	0	clear	E. F. Kubel.
Louisville, Kentucky	29.87	758.7	30.46	773.7	34	1.1	71	nw.	9	4.0	.....	.....	10 s	.....	0	0	cloudy	H. C. Smith.
Lynchburg, Virginia	29.58	751.3	30.30	769.6	51.0	10.6	49	sw.	4	1.8	.....	.....	10 s	.....	0	0	cloudy	T. H. Breen.
Madison, Wisconsin	29.49	749.0	30.56	776.2	15	— 9.4	67	n.	12	5.4	.....	0	0	.....	.....	inap.	inap.	clear	C. A. Shaw.
Marquette, Michigan	29.88	758.9	30.64	778.2	17	— 8.3	83	e.	14	6.3	.....	.....	10 s	.....	calm	0.13	3.3	cloudy	I. Gilligan.
Mason, Texas	28.52	724.4	30.22	767.6	36.4	2.4	80	ne.	15	6.7	.....	.....	10 n	.....	ne.	0.09	2.3	light rain	A. M. Wilson.
Memphis, Tennessee	30.07	763.8	30.42	772.7	43	6.1	68	ne.	8	3.6	.....	10 cs	0	sw.	.....	0	0	cloudy	D. T. Flannery.

STATIONS.	BAROMETER. Corrected for instrumental error and for temperature.		BAROMETER. Reduced to sea-level.		Temperature of the air.		Relative humidity.	WIND. Direction.	WIND. Velocity.		WIND. Force.	CLOUDS. Amount and kind. Upper.	CLOUDS. Amount and kind. Lower.	CLOUDS. Direction. Upper.	CLOUDS. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–01	0–10	0–10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Milwaukee, Wisconsin	29.77	756.1	30.56	776.2	20	— 6.7	70	nw.	11	4.9		0	5 s		nw.	0	0	fair	W. Line.
Mobile, Alabama	30.16	766.1	30.20	767.1	59	15.0	93	n.	9	4.0			10 s			0	0	cloudy	J. D. Paxton.
Montgomery, Alabama	30.00	762.0	30.24	768.1	58	14.4	80	n.	6	2.7			10 s		n.	0.59	15.0	cloudy	J. B. McLaughlin.
Moorhead, Minnesota	29.64	752.8	30.72	780.3	—16	—26.7	100	calm	0	0		0	0			0.02	0.5	clear	H. Bessant.
Morgantown, W. Virginia	29.36	745.7	30.42	772.7	34.5	1.4	71	nw.	12	5.4			10 s		nw.	0.14	3.6	cloudy	J. Sprigg, jr.
Mt. Washington, N. H.	23.35	593.1	29.87	758.7	4.0	—15.6	91	nw.	69	30.8			10n;fg		nw.	0.37	9.4	light snow	J. G. Linsley.
Nashville, Tennessee	29.89	759.2	30.45	773.4	42.0	5.6	65	n.	8	3.6		10 cs	0	nw.		0.02	0.5	cloudy	L. A. Jesunofsky.
New Haven, Connecticut	29.99	761.7	30.11	764.8	39	3.9	62	w.	8	3.6		0	6 s		w.	0.29	7.4	fair	J. H. Sherman.
New London, Connecticut	30.06	763.5	30.11	764.8	41	5.0	73	sw.	12	5.4		4 c	0	w.		0.27	6.9	fair	J. G. Lynch.
New Orleans, Louisiana	30.08	764.0	30.14	765.5	64.0	17.8	90	n.	7	3.1			10 s		n.	0.01	0.3	cloudy	A. J. Armstrong.
Newport, Rhode Island	29.98	761.5	30.03	762.7	40.0	4.4	62	w.	18	8.0		0	0			0.35	8.9	clear	W. McGillivray.
New River, N. Carolina																			C. C. Corbin.
New Shoreham, Rhode I'd.	30.05	763.3	30.08	764.0	40.2	4.6	73	nw.	16	7.2		0	0			0.64	16.3	clear	W. Davis.
New York, New York	30.00	762.0	30.18	766.6	39	3.9	65	w.	13	5.8		4 cs	2 s	w.		0.16	4.1	fair	E. B. Garriott.
Norfolk, Virginia	30.24	768.1	30.28	769.1	53	11.7	80	nw.	2	0.9		3 cs	2s;hz	nw.		0	0	fair	J. T. Elker.
North Platte, Nebraska	27.56	700.0	30.62	777.7	9.6	—12.4	68	n.	6	2.7		0	4 s			0	0	fair	E. F. Brady.
Olympia, Washington T'y	30.31	769.9	30.35	770.9	40.4	4.7	79	s.	3	1.3			10 n		calm	0.01	0.3	light rain	J. Dascomb.
Omaha, Nebraska	29.44	747.8	30.69	779.5	7.0	—13.9	55	nw.	8	3.6		0	0			0	0	clear	A. Pollak.
Ooglaamie, Pt. Barrow, Alas.	30.07	763.8	30.09	764.3	— 8.2	—22.3	85	ese.	16	7.2		0	0			0	0	clear	P. H. Ray.
Oswego, New York	29.90	759.4	30.24	768.1	28.0	— 2.2	77	n.	15	6.7			10 s		n.	0	0	cloudy	S. W. Beall.
Palestine, Texas	29.70	754.4	30.27	768.8	46	7.8	100	n.	12	5.4			10 n			0.86	21.8	light rain	L. M. Pindell.
Pensacola, Florida	30.15	765.8	30.18	766.6	66.0	18.9	100	e.	4	1.8			10 s			0	0	cloudy	M. McGauran.
Philadelphia, Pa	30.15	765.8	30.25	768.3	43	6.1	51	w.	9	4.0		9 cs	hz.	w.		0.06	1.5	cloudy	T. F. Townsend.
Pike's Peak, Colorado	17.39	441.7	29.98	761.5	—20.5	—29.2	72	s.	20	8.9		0	4 s		s.	0.05	1.3	fair	L. M. Dey.
Ploche, Nevada	24.12	612.6	30.26	768.6	8	—13.3	76	n.	10	4.5		0	0			0	0	clear	C. K. Kitchel.
Pittsburg, Pennsylvania	29.56	750.8	30.41	772.4	34.0	1.1	65	w.	10	4.5			10 s		w.	0.02	0.5	cloudy	J. H. Bryce.
Port Eads, Louisiana	30.13	765.3	30.14	765.5	67.6	19.8	100	e.	4	1.8			10 s			0.01	0.3	cloudy	H. G. Christian.
Port Huron, Michigan	29.73	755.1	30.45	773.3	22.6	— 5.2	93	n.	11	4.9			10 n			0.07	1.8	light snow	W. O. Bailey.
Portland, Maine	29.87	758.7	29.92	760.0	39.0	3.9	65	nw.	10	4.5		1 ck	0	nw.		0.19	4.8	clear	D. C. Murphy.
Portland, Oregon	30.33	770.4	30.40	772.1	36.0	2.2	89	ne.	3	1.3			10 s		n.	0	0	cloudy	M. L. Hearne.
Portsmouth, N. Carolina					55	12.8	80	ne.	16	7.2		6 ck	0	sw.		0	0	fair	F. P. Chaffee.
Prescott, Arizona	24.63	625.6	29.97	761.2	24	— 4.4	76	n.	12	5.4		6 k	0	ne.		0	0	fair	J. McN. Wright.
Provincetown, Mass.	29.94	760.5	29.96	761.0	38	3.3	72	w.	16	7.2		2 k	0	nw.		0.09	2.3	clear	P. T. Jenkins.
Punta Rassa, Florida	30.17	766.3	30.18	766.6	63	17.2	87	e.	6	2.7		0	0			inap.	inap.	clear	W. J. Evans.
Red Bluff, California	30.01	762.2	30.39	771.9	39.2	4.0	54	n.	5	2.2		0	0			0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.84	757.9	30.08	764.0	54	12.2	86	nw.	6	2.7			10 s		nw.	0.08	2.0	cloudy	W. H. Taylor.
Rochester, New York	29.61	752.1	30.31	769.9	25	— 3.9	73	nw.	24	10.7			10 ks		nw	0	0	threatening	A. T. Sherwood.
Roseburg, Oregon	29.89	759.2	30.45	773.4	32.1	0.1	88	calm	0	0		0	0			0	0	clear	J. J. Nanry.
Sacramento, California	30.23	767.8	30.31	769.9	42.9	6.1	43	n.	17	7.6		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.92	760.0	30.56	776.2	29.9	— 1.2	67	n.	9	4.0			10 s			0	0	cloudy	J. H. Webber.
St. Paul, Minnesota	29.71	754.6	30.63	778.0	20.0	— 6.7	84	n.	9	4.0			10 s		n.	0.07	1.8	cloudy	O. S. M. Cone.
St. Vincent, Minnesota	29.80	756.9	30.74	780.8	—25	—31.7	100	nw.	9	4.0		0	0			0	0	clear	G. Kingsbury.
Salt Lake City, Utah	25.84	656.3	30.36	771.1	15	— 9.4	67	n.	6	2.7		0	0			0	0	clear	J. Craig.
San Antonio, Texas	29.40	746.7	30.11	764.8	49.6	9.8	100	ne.	20	8.9			10 n		n.	1.75	44.4	heavy rain	E. Lane.
San Diego, California	30.04	763.0	30.11	764.8	45.6	7.6	26	n.	11	4.9		0	0			0	0	clear	A. C. Dobbins.
Sandusky, Ohio	29.73	755.1	30.45	773.4	32	0.0	78	nw.	17	7.6			10 s		nw.	0	0	cloudy	M. H. Perry.
Sandy Hook, New Jersey	30.16	766.1	30.20	767.1	40.0	4.4	65	nw.	18	8.0		8 k	0	nw.		0.18	4.6	cloudy	B. A. Blundon.
San Francisco, California	30.23	767.8	30.30	769.6	48	8.9	42	n.	12	5.4		1 cs	0	nw.		0	0	clear	N. Gorom.
Santa Fé, New Mexico	23.13	587.5	30.11	764.8	18	— 7.8	35	ne.	20	8.9			10 s		ne.	0.01	0.3	cloudy	H. N. Jones.
Savannah, Georgia	30.12	765.0	30.21	767.3	62	16.7	81	w.	2	0.9		0	8 ks			0	0	cloudy	H. M. Ford.
Shreveport, Louisiana	29.99	761.7	30.24	768.1	50	10.0	86	ne.	9	4.0			10 s			0	0	threatening	E. N. Meekins.
Silver City, New Mexico	24.10	612.1	29.88	758.9	25	— 3.9	58	s.	1	0.4		3 k	0	s.		0	0	clear	J. B. Wallace.
Sitka, Alaska	29.57	751.1	29.64	752.8	42.7	5.9	64	s.	20	8.9			10 s		calm	0.99	25.1	cloudy	J. J. McLean.
Smithville, North Carolina	30.20	767.1	30.24	768.1	57	13.9	80	ne.	9	4.0		3 cs	4 s	w.		0	0	fair	J. C. Rickli.
Spokane Falls, Wash. Ter.	28.34	719.8	30.47	773.9	23	— 5.0	80	w.	2	0.9			10 s		w.	0	0	cloudy	D. Moore.
Springfield, Illinois	29.84	757.9	30.56	776.2	35	1.7	64	n.	2	0.9			10 s		n.	0	0	cloudy	T. B. Jennings.
Springfield, Massachusetts	29.95	760.7	30.09	764.3	41.0	5.0	57	w.	10	4.5		9 k	0	nw.		0.12	3.0	cloudy	T. S. Outram.
Springfield, Mo.	29.01	736.8	30.57	776.5	24	— 4.4	88	ne.	11	4.9		10 cs	0			0	0	cloudy	J. B. Marbury.
Stockton, Texas	27.15	689.6	30.23	767.8	27.8	— 2.3	100	n.	8	3.6			10 n		n.	inap.	inap.	light rain	J. O'Dowd.
Thatcher's Island, Mass.	29.96	761.0	30.02	762.5	38.0	3.3	72	nw.	20	8.9		0	0			0.06	1.5	clear	G. Liebmann.
Toledo, Ohio	29.72	754.9	30.45	773.4	31	— 0.6	88	nw.	10	4.5			10 s		nw.	inap.	inap.	cloudy	A. Buell.
Tucson, Arizona	27.50	698.5	29.96	761.0	31	— 0.6	81	sw.	4	1.8		0	0			0	0	clear	J. L. Whiteside.
Umatilla, Oregon	30.10	764.5	30.48	774.2	28.3	— 2.1	87	se.	5	2.2		8 cs	0	nw.		0	0	cloudy	R. P. Sibley.
Uvalde, Texas	29.12	739.6	30.10	764.5	48	8.9	100	w.	5	2.2			10 n		n.	0.60	15.2	light rain	E. C. Imlay.
Vicksburg, Mississippi	29.98	761.5	30.24	768.1	54	12.2	74	ne.	6	2.7			10 s		ne.	0.13	3.3	cloudy	T. J. Kenan.
Visalia, California	29.81	757.2	30.19	766.8	35	1.7	69	w.	2	0.9		0	0			0	0	clear	J. T. Cochran.
Washington, D. C.	30.20	767.1	30.32	770.1	43	6.1	68	n.	7	3.1			10 s		nw.	0	0	cloudy	B. M. Pursell.
West Los Animas, Colorado	26.39	670.3	30.47	773.9	15	— 9.4	91	e.	12	5.4			10 n		calm	0.02	0.5	light snow	J. Grover.
Wickenburg, Arizona					33.2	0.7	54	nw.			1	3 c	0			0	0	clear	H. A. Kremp.
Williamsport, Pa.	29.62	752.3	30.25	768.3	38	3.3	53	nw.	9	4.0			10 ks		nw.	0.24	6.1	cloudy	B. F. Hough.
Wilmington, N. Carolina	30.20	767.1	30.26	768.6	59	15.0	75	e.	5	2.2			10k;s		sw;c	0	0	cloudy	S. A. Haney.
Winnemucca, Nevada	25.90	657.8	30.40	772.1	14	—10.0	66	ne.	10	4.5		0	0			0	0	clear	J. R. Williams.
Yankton, Dakota	29.29	744.0	30.68	779.3	3	—16.1	72	nw.	5	2.2		0	0			0	0	clear	J. H. Atfield.
Yuma, Arizona	29.93	760.2	30.08	764.0	45.0	7.2	28	nw.	9	4.0		0	0			0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	21.99	558.5			56.0	13.3	83	s.	2	0.9		3 k	2 ks	nw.		0	0	fair	Joaquin Gomez.
Bridgetown, Barbados, W.I.	30.09	764.3	30.10	764.5	77	25.0	81	e.				5 k	5 ks	e.	e.	0	0	fair	J. A. Racker.
Buenaventura, U. S. C.	29.95	760.7	29.97	761.2	79	26.1	86	calm	0	0			10 ks		s.	0.60	15.2	cloudy	J. I. Plume.
Guadeloupe, W. I.	30.01	762.2	30.03	762.7	76	24.4	87	e.				0	2 ks			0.039	1.0	clear	B. Bigar.
Havana, Cuba, W. I.	30.12	765.0	30.17	766.3	74	23.3	77	se.	1.2	0.5		0	1 ks		calm	0	0	clear	A. Van Caneghem.
Kingston, Jamaica, W. I.	30.07	763.8	30.08	764.0	70.1	21.2	83	n.	1	0.4		0	0			0	0		Robert Johnston.
Navassa	30.10	764.5	30.18	766.6	76.5	24.7	79	e.	10	4.5		8 cs	8 s	se.	e.	0.15	3.8		F. M. Everett.
Paramaribo, S. A.	30.06	763.5	30.07	763.8	79	26.1	87	e.			2	4 c	4 k	e.		0.010	0.3	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.44	747.8	29.89	759.2	86	30.0	72	calm			0		10 s		calm	0	0	cloudy	Miss Flora A. Nichols.
Rivas							96	ne.			1	0	ks		ne.	0	0	clear	Robert Mason.
Santiago de Cuba, W. I.	30.06	763.5	30.08	764.0	71	21.7	79	calm	0	0		2 cs	0			0.11	2.8	fair	
York Factory, B. A.	30.52	775.2	30.57	776.5	—12.0	—24.4	75	sw.	11	4.9		0	2 s		sw.	0	0	fair	W. Wood.

STATIONS AND VESSELS.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
BRITISH NAVAL.																		
H. M. S. Agincourt, N. 36° 30′, W. 2° 56′	30.36	771.1	63	17.2	88	wsw.			1		1	calm						blue sky.
H. M. S. Albatross, Canton, China	30.23	767.8	56	13.3		n.			2		10							overcast.
H. M. S. Alert, Mahi, Seychelles, Islands	29.88	758.9	84	28.9	75	nw.			1–2		7							d. clouds.
H. M. S. Alexandra, Malta, Mediterranean	29.87	758.7	60.8	16.0	78	wsw.			4–5		4	wnw.						squally.
H. M. S. Antelope, N. 36° 03′, E. 17° 12′	29.81	757.2	62	16.7		wnw.			2–3		8	nw.				3	nw.	d. clouds.
H. M. S. Bacchante, Alexandria, Egypt	29.97	761.2	63	17.2	98	calm			0		0							blue sky.
H. M. S. Boadicea, S. 33° 05′, E. 18° 00′	29.96	761.0	69.5	20.8	63	sw.			2		4	s.						d clouds.
H. M. S. Champion, S. 33° 10′, W. 89° 15′	29.24	742.7	67	19.4	84	ese.			3		9	ese.				3	ese.	showery.
H. M. S. Cleopatra, Suez Canal, Egypt	29.92	760.0	66	18.9	73	n			1		4	calm						d. clouds.
H. M. S. Comus, Singapore, Malay Pen.	29.93	760.2	80	26.7	95	ne.			2		2							d. clouds.
H. M. S. Diamond, S. 39° 10′, E. 75° 55′	30.08	764.0	64	17.8	89	nnw.			4		8					1	nnw	d. clouds.
H. M. S. Dido, N. 13° 05′, W. 59° 36′	30.10	764.5	78	25.6		ne.			3–4		3	ne.						d. clouds.
H. M. Dock Yard, Bermuda, W. I.	30.15	765.8	65	18.3	83	ssw.			2–3		4	ssw.						d. clouds.
H. M. S. Dwarf, S. 34° 35′, W. 58° 19′	30.05	763.3	71.5	21.9	83	ne.			1–2		0					2–3	ene.	blue sky.
H. M. S. Eclipse, S 15° 01′, E. 40° 45′	29.82	757.4	84	28.9		ese.			1		5							d. clouds.
H. M. S. Espiegle, S. 39° 19′, E. 51° 18′	29.90	759.4	61	16.1	82	w.			3		9					2	sw.	d. clouds.
H. M. S. Flying Fish, N. 34° 41′, E. 135° 12′	30.25	768.3	43	6.1	87	calm			0		3	ne.						d. clouds.
H. M. S. Gannet, S. 32° 45′, W. 93° 00′	30.22	767.6	70	21.1	71	ese.			1		6					3	e.	d. clouds.
H. M. S. Garnet, Keppel Sound, Falkland Is.	29.30	744.2	53	11.7	86	nw.			6		8	nw.						misty.
H. M. S. Inconstant, Anjer, Java, Oceania	29.91	759.7	77	25.0	82	w.			1		10					2	nw.	overcast.
H. M. S. Iris, N. 31° 15′, E. 31° 00′	29.95	760.7	68	20.0	84	wnw.			1–2		1	nne.				1	wnw.	blue sky.
H. M. S. Iron Duke, N. 22° 16′ E. 114° 10′	30.14	765.5	59	15.0	81	w.			1		10	w.						overcast.
H. M. S. Liffey, Coquimbo, Chili	29.93	760.2	62	16.7		n.			1		10							overcast.
H. M. S. Magpie, N. 24° 24′, E. 118° 15′	30.25	768.3	52.5	11.4	62	ne.			3–5		10					4	ene.	misty.
H. M. S. Malabar, N. 36° 46′, E. 0° 07′	30.30	769.6	59	15.0	81	nne.			3		1	nne.				1	nne.	blue sky.
H. M. S. Rambler, Gaboon, Lower Guinea	29.83	757.7	82	27.8		w.			2		6	calm						d. clouds.
H. M. S. Rocket, Vancouver Id., Brit. Col.	30.31	769.9	39	3.9	?	nnw.			1		9							raining.
H. M. S. Sea Gull, S. 3° 00′, E. 40° 50′	29.36	745.7	83	28.3	74	ne.			3–4		2	nne.						d. clouds.
H. M. S. Thalia, N. 5° 35′, W. 25° 44′	30.03	762.7	81	27.2		ne.			3–4		8	se.				1	nne.	d. clouds.
H. M. S. Triumph, S. 32° 50′, W. 92° 54′	30.23	767.8	71	21.7	85	e.			2		6	se.				6	sw.	d. clouds.
H. M. S. Tyne, N. 11° 47′, E. 110° 58′	30.00	762.0	78	25.6	95	nne.			4		3					5	nne.	d. clouds.
H. M. S. Woodlark, Bombay, India	29.88	758.9	79.5	26.4	78	wnw.			4–5		0							misty.
PORTUGUESE NAVAL.																		
Quanza, Santiago, Cape Verd Is.	30.06	763.6	79.7	26.5	55	ne.			2		0					2	ne	blue sky.
UNITED STATES NAVAL.																		
Navy Yard, Pensacola, Fla.	30.13	765.3	68	20.0	90	nne.	4	1.8			10			0	0			foggy.
N. Yard, Portsmouth, N. H.	30.01	762.2	37	2.8	71	nw.	14	6.3			0			0.2	5.			clear.
Naval Hospital, Yokohama, Japan	30.02	762.5	45.5	7.5	80	e.			1		2	w.		0	0			clear.
Adams, Callao, Peru	29.70	754.4	67	19.4	95	sse.			2		5					gr'd		fair.
Alaska, Valparaiso, Chili	29.93	760.2	58	14.4	88	calm			0		0			0	0	sm'h		clear.
Alert, N. 8° 03′, E. 117° 33′*	29.79	756.7	82	27.8	83	ene.			2		5		e.			sm'h		fair.
Alliance, N. 15° 34′, W. 62° 30′	30.04	763.0	77	25.0	77	ene.			4		2			0	0			clear.
Ashuelot, Tientsin, China	30.31	769.9	35	1.7	80	sse.			2		2							clear.
Brooklyn, Port Stanley	29.41	747.0	50	10.0	93	nw.	12	5.4			10		nw.	0.05	1.3	sm'h		squally.
Colorado, New York, N. Y.	30.16	766.1	41	5.0	57	wnw.	12	5.4			5		w.	0.16	4.1			fair.
Enterprise, N. 28° 07′, W. 70° 00′*	30.27	768.8	66	18.9	84	ese.			1		5?					long	ne.	clear?
Essex, Porto Grande, C. Verd Ids.	30.07	763.8	70	21.1	75	ne.			4		2		ne.			sm'h		clear.
Franklin, Norfolk, Va.	30.28	769.1	53	11.7	93	nnw.	2	0.9			8		nw.	0	0			fair.
Galena, Villafranca, France	30.16	766.1	65	18.3	73	calm			0		5					sm'h		fair.
Independence, Mare Island, Cal.	30.19	766.8	48	8.9	32	nnw.			4		2			0	0			clear.
Kearsarge, New Orleans, La.	30.14	765.5	66	18.9	84	ne.			3		10							cloudy.
Lackawana, Valparaiso, Chili†	30.05	763.3	60	15.6	100	calm			0		10							hazy.
Lancaster, N. 38° 32′ E. 26° 45′ *	29.99	761.7	63	17.2	57	s.			3		8			0	0	sm'h		fair.
Marion, S. 33° 54′, E. 18° 24′*	29.76	755.9	68	20.0	95	sw.			3		8		sw.	0	0	sm'h		foggy.
Michigan, Erie, Pa.	30.32	770.1	31	— 0.6	100	nnw.			5		10		nw.					snowing.
Minnesota, Newport, R. I.	30.03	762.7	40	4.4	73	wnw.	15	6.7			0							clear.
Monocacy, Yokohama, Japan.	30.21	767.3	47	8.3	48	e.			2		5							fair.
New Hampshire, Newport, R. I.	29.91	759.7	42	5.6	83	nw.			6		2					sm'h	nw.	fair.
Nipsic, Lisbon, Portugal	30.42	772.7	67	19.4	64	ese.			2		2					sm'h		clear.
Onward, Callao, Peru†	30.05	763.3	65	18.3	100	sse.			2		8	n.				long	w.	cloudy.
Palos, Hoo-i-tan Bay, China	30.26	768.6	50	10.0	93	ne.			5–6		10							overcast.
Passaic, Washington, D. C.	30.31	769.9	44	6.7	92	nw.			1		10							hazy.
Pensacola, S. 22° 42′, W. 70° 49′	29.97	761.2	67	19.4	79	calm			0		10			0	0	long	ssw.	cloudy.
Powhatan, Roseau Dominica, W. I.	30.09	764.3	78	25.6	65	calm			0		8		ene.			light	n;w.	cloudy.
Quinnebaug, N. 38° 23′, E. 27° 02′	29.97	761.2	65	18.3	53	calm			0		2		calm			sm'h		hazy.
Ranger, Acapulco, Mexico*	29.88	758.9	75	23.9	81	calm			0		0			0	0	sm'h		clear.
Shenandoah, S. 3° 27′, W. 33° 00′*	30.02	762.5	83	28.3	79	se.			2		2		se.			sm'h		fair.
St. Louis, League Island, Pa.	30.45	773.4	48	8.9	63	wnw.	12	5.4			2			0	0			clear.
Swatara, Yokohama, Japan*	29.98	761.5	48	8.9	78	e.			2		5		calm			sm'h		fair.
Tennessee, N. 27° 10′, W. 80° 02′	30.24	768.1	74	23.3	90	ese.	6	2.7			5		e.	inap.	inap.	mod.	ese.	fair.
Vandalia, Havana, Cuba*†	30.27	768.8	71	21.7	90	e.			2		2		calm					clear.
Wabash, Boston, Mass.	29.98	761.5	38	3.3	63	wnw.	9	4.0			2		nw.	0.08	2.0			clear.
Wachusetts, Sitka, Alaska	29.51	749.5	40	4.4	91	se.			3		10		se.			sm'h		overcast.
Wyoming, Port Royal, S. C.	30.19	766.8	61	16.1	100	calm	0	0			10		calm	0	0			overcast.
Yantic, Pensacola, Florida	30.13	765.3	68	20.0	100	ne.			2		0							clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.	Character.	Direction from.	
ALLAN LINE.																		
S. S. Circassian, Liverpool, England	30.19	766.8	49	9.4	93	s.			6		5		s.	5 h'r	5 h'r	2	s.	showery.
S. S. Nova Scotia, N. 42° 46′, W. 47° 27′	29.83	757.7	40	4.4		e.			2		10		ese.			mod.	sse.	cloudy.
S. S. Peruvian, Liverpool, Eng.*	29.53	750.0	42	5.6		wsw.			6		7?		w.	0	0			clear.?
S. S. Prussian, Boston, Mass*	29.97	761.2	40	4.4		wsw.			2		4?		w.					cloudy ?.
S. S. Scandinavian, N. 53° 33′, W. 19° 40′*	29.46	748.3	52	11.1		ssw.			7		9		wsw.	20 h'r	light	high	sw.	drizzling.
S. S. Waldensian, N. 49° 12′, W. 35° 17′*	29.59	751.6	39	3.9		w.			6		2		wnw.			high	sw.	snowing.
AMERICAN STEAMSHIP COMPANY.																		
S. S. Illinois, N. 39° 54′, W. 63° 01′	29.73	755.1	55	12.8	93	wnw.			6		10		n.			mod.	nw.	overcast.
S. S. Indiana, Philadelphia, Penn.†	30.18	766.6	44	6.7	45	w.			3		5?		w.	0	0			clear.?
S. S. Ohio, N. 47° 49′ W. 36° 10′*†	29.56	750.8	40	4.4	91	w.			7		7		w.			h'vy	w.	squally.
ANCHOR LINE.																		
S. S. Devonia, N. 53° 30′, W. 22° 50′*†	29.30	744.2	53	11.7		wsw.			4		8?		ssw.			h'vy	sw.	clear,?
S. S. Galatia, N. 46° 16′, W. 41° 14′†	29.88	758.9				w.			6		9		nw.	6 h'r	rain& snow	high	nw.	sleeting.
ATLAS LINE.																		
S. S. Alisa, off Cape Hayti, Hayti, W. I†	30.17	766.3	71	21.7	?	ese.			1		2		ese.	3 h'r	sh'rs	sm'h		fine.
S. S. Alvo, Cartagena, U. S. C.	29.89	759.2	79	26.1		ne.			2		3		ne.	0	0			fine.
BOSTON AND HALIFAX.																		
S. S. Carroll, Halifax, N. S†	29.91	759.7	22	—5.6	100	ne.								snow	snow			snowy.
BRITISH METEOROLOGICAL OFFICE.																		
S. S. Auckland, S. 0° 08′, W. 31° 42′	30.00	762.0	81	27.2		ese.			4		5							blue sky.
Baroda, S. 45° 31′, E. 7° 49′	30.07	763.8	49.1	9.5	89	wsw.			6		6							showery.
Bk Caldew, S. 6° 42′, W. 27° 48′	30.02	762.5	81.1	27.3		ese.			6		3							misty.
S. S. Cipero, N. 49° 34′, W. 4° 57′	30.34	770.6	56.8	13.8	87	w.			3		10							drizzling.
Coppename, N. 32° 48′, W. 47° 48′	30.18	766.6	63	17.2	67	n.			2		2							blue sky.
S. S. Gordon Castle, N. 11° 30′, E. 55° 24′	29.97	761.2	80.5	26.9	68	nne.			5		1							blue sky.
S. Lochee, N. 11° 45′, W. 34° 24′	30.07	763.8	74	23.3	81	ne.			5		5							misty.
Minho, off Cape St. Agostinhos, Brazil	30.01	762.2	83.6	28.7	77	e.			4		5							d. clouds.
Queen of Cambria, N. 9° 55′, E. 81° 30′	29.89	759.2	82.8	28.2	77	ne.			5		3							blue sky.
BRISTOL CITY LINE.																		
S. S. Brooklyn City, N. 42° 43′, W. 46° 19′*†	29.96	761.0	50	10.0		s.			1		10		s.	0	0	sm'h		cloudy.
CROMWELL LINE.																		
S. S. New Orleans, N. 32′, 10° W. 80° 00′*†	30.28	769.1	60	15.6		calm			0		0					sm'h		smoky.
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. Canada, Havre, France	30.37	771.4	44.6	7.0		ssw.			2		8		ssw.	0	0			
S. S. St Laurent, N. 48° 50′, W. 20° 42′†*	29.84	758.0	53.6	12.0		ssw.			7					light	light	h'vy	ssw.	hailing.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Lessing, Plymouth, England*†	30.02	762.5	72	22.2		nnw.			3		5		nw.	0	0			fair.
LEYLAND LINE.																		
S. S. Iberian, N. 51° 05′ W 29° 42						sw.			7		3		wsw.	4 h'r	4 h'r	high	wsw.	
MALLORY LINE.																		
S. S. Colorado, N. 35° 33′ W. 74° 47′†	30.27	768.8	59	15.0		n.			3		6		sw.	0	0	mod.	ne.	hazy.
MERCHANTS' EXPRESS LINE.																		
S. S. Hermod, N. 40° 21′, W. 66° 44′*†	29.68	753.9	48.2	9.0		nw.			4		6?		nw.	8 h'r	light	mod.	sw.	clear.?
MERCHANT STEAMSHIP COMPANY.																		
S. S. Glenfyne, N. 22° 30′ W. 57° 30′	29.82	757.4	75	23.9		ene.			4							long	nne.	fair.
NATIONAL LINE.																		
S. S. Erin, N. 49° 35′ W. 21° 01′	29.60	751.8	53	11.7		s.			9		10		ssw.	shr's	sh'rs	hv'y	s.	gloomy.
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Amsterdam, N. 50° 08′ W. 3° 14′	30.40	772.1	50	10.0		wsw.			3–4								wsw.	foggy.
S. S. Alvena, N. 17° 58′ W. 76° 48′*†	29.95	760.7	81	27.2		calm			0									clear..
S. S. City of Washington, N. 35° 35′ W. 74° 42′†*	30.30	769.6	52	11.1		n.			1							sm'h		fine.
S. S. Olbers, N. 43° 29′, W. 9° 40′†*	30.54	775.7	60	15.6		s.			3–4								ssw.	cloudy.
S. S. P. Caland, N. 40° 54′ W. 46° 10′	30.00	762.0	48.2	9.0		sw.			4							2	sw.	fine.
NORTH GERMAN LLOYD.																		
S. S. Hermann, N. 43° 51′, W. 53° 31′*†	29.68	753.9	30.2	—1.0		e.			6		10			9 h'r	snow	r'gh	se.	snowing.
S. S. Hohenzollern, S. 20° 13′, W. 38° 59′*	30.06	763.5	81.5	27.5		se.			3		1		s.	0	0	2–3	se;s	clear.
S. S. Kronprinz F. Wilhelm, N. 49° 40′ W. 19° 20′	29.73	755.1	51.8	11.0		sw.			7–8		10		sw.	8 h'r	light	6–7	wsw.	drizzling.
S. S. Neckar, N. 40° 13′ W 56° 11′	29.39	746.5	60.3	15.7		sw.			6		8		wsw.	16h'r	16h'r	r'gh	sw.	clearing.
S. S. Nurnburg S. 34° 54′, W. 53° 57′*	30.21	767.3	69.8	21.0	85	ese.			3		2		se.	0	0	2	se.	fair.
S. S. Oder, N. 46° 26′, W. 42° 40′*	29.87	758.7	27.5	—2.5		nw.			5		4		nw.	snow	snow	mod.	nw.	squally.
S. S. Ohio, N. 49° 31′, W. 15° 51′	29.99	761.7				sw.			7		8		sw.	0	0	cross	wsw.	cloudy.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Belgic, Hong Kong, China†	30.14	765.5	60	15.6	76	ne.			2		10		ne.	0	0			overcast.
S. S. Gaelic, N. 35° 08′, E. 161° 27′†	30.02	762.5	57	13.9	63	ne.			4		8		ne.			mod.	n.	cloudy.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, New York, N. Y†	30.19	766.8				nw.			3		3		nw.	0	0			clear.
S. S. Seminole, Boston, Mass†	30.02	762.5	40	4.4		nw.			3		1		nw.	8 h'r	8 h'r			clear.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. City of Chester, N. 41° 35′, W. 124° 40′*†	30.36	771.1	49	9.4	93	nw.			3		2		nnw.			sm'h		fair.
S. S. Oregon, N. 44° 42′, W. 124° 16′†	30.44	773.2	46	7.8	77	nw.			1		10					light	nw.	threatening.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, N. 35° 13′ W. 120° 55′†	30.20	767.1	50	10.0	65	se.			3		0					sm'h		clear.
S. S. G. W. Elder, New Tacoma, B. C†	30.23	767.8	40	4.4		se.			3		7		se.	0	0			cloudy.
S. S. Idaho, San Francisco, Cal†	30.27	768.8	50	10.0	45	n.			4		2		n.					clear.
S. S. Orizaba, N. 37° 06′ W. 122° 19′†	30.22	767.6	52	11.1	54	nw.			4				nw.	0	0	h'vy	nw.	cloudy.
S. S. State of California, San Francisco, Cal†	30.27	768.8	48	8.9	43	ne.			4		0			0	0			clear.
S. S. Victoria, N. 38° 57′ W. 123° 48,†	30.26	768.5	46	7.8	84	wnw.			2		0					light	nw.	clear.
PACIFIC MAIL STEAM SHIP COMPANY.																		
S. S. Australia, S. 28° 18′, E. 179° 24′	29.82	757.4	74	23.3	100	se.			3		10		se.	2 h'r	2 h'r	mod.	se.	hazy.
S. S. City of Rio de Janeiro, N. 8° 26′, W. 79° 45′†	30.12	765.0	80	26.7	74	ese.			2		5		e.	0	0	sm'h		clearing.
S. S. City of Sidney, Sydney, N. S. W†	30.01	762.2	73	22.8	76	s.			5		2		sw.	0	0	sm'h		fair.
S. S. City of Tokio, N. 34° 38′, E. 138° 35′†	30.20	767.1	51	10.6	59	nw.			6		0			0	0	sm'h		clear.
S. S. Colima, La Libertad, San Salvador†	29.92	760.0	81	27.2	55	sw.			2		2		calm	0	0	small	ssw.	clear.
S. S. Colon, N. 18° 20′, W. 74° 39′†	30.16	766.1	76	24.4		calm			0		5		e.			sm'h	e.	fair.
S. S. Grenada, N. 36° 42′, W. 122° 12′†	30.21	767.3	51	10.6	93	n.			6		0			0	0	mod.	var.	clear.
S. S. South Carolina, La Libertad, San Salvador†	29.99	761.7	80	26.7	78	ene.			2		2		ene.	0	0	sm'h		smoky.
S. S. Zelandia, S. 7° 06′, W. 167° 46′	29.78	756.4	77	25.0	79	ne.			3		5		ne.			sm'h		fine.
QUEBEC STEAM SHIP COMPANY.																		
S. S. Muriel, Dominica, W. I.						ene.			2		0			0	0	sm'h		fair.
S. S. Bermuda, Arroyo, W. I†	30.12	765.0	74	23.3		ene.			1		2		e.	½h'r	½h'r			fine.
RED STAR LINE.																		
S. S. Belgenland, N. 44° 52′ W. 43° 21′†			46	7.8	35	w.			6		7		w.	8 h'r	8 h'r	hv'y	wnw.	fair.
S. S. Rhynland, N. 49° 28′ W. 14° 35′	30.11	764 8	52	11.1	79	sw.			6		9		sw.	0.1	3.	high	sw.	cloudy.
S. S. Switzerland, N. 48° 59′, W. 19° 20′†	29.87	758.7				ssw.			6		10		ssw.	4 h'r	drizz	long	ssw.	misty.
S. S. Vaderland, Antwerp, Belgium*†	30.22	767.6	40	4.4		sse.			2		5		s.	0	0			clear.
S. S. Waesland, N. 40° 45′ W. 61° 59′	29.78	756.4	40	4.4		nw.			5		10		wnw.	13h'r	13h'r	mod.	wsw.	cloudy.
ROTTERDAM LINE.																		
S. S. Schiedam, N. 49° 40′, W. 16° 54′*	29.90	759.4	58.5	14.7	96	sw.			6		8		wsw.	3 h'r	light	h'vy	sw.	drizzling.
S. S. W. A. Scholten, Rotterdam, Holland*	30.17	766.3	55.0	12.8	71	sw.			7		5		sw.	0	0			
THINGVALLA LINE.																		
S. S. Thingvalla, N. 40° 54′, W. 59° 22′†	29.78	756.4	47.3	8.5		nw.			4		10		nw.	15h'r	15h'r	cross	wnw.	covered.
WARREN LINE.																		
S. S. Iowa, N. 42° 13′, W. 53° 53′.*†	29.64	752.8	44	6.7		se.			6		10		se.	9 h'r	light	mod.	se.	heavy rain.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
WHITE STAR LINE.																		
S. S. Celtic, Liverpool, Eng*†	29.85	758.2	48	8.9	77	w.	.....	.....	4	.....	2	.....	w.	0	0	.....	.....	fair.
S. S. Republic, N. 43° 35′, W. 48° 25′†	29.97	761.2	41	5.0	83	wsw.	.....	.....	3	.....	9	.....	sw.	0	0	mod	nw.	cloudy.
WILSON LINE.																		
S. S. Salerno, New York, N. Y†	30.23	767.8	.....	.....	.....	w.	.....	.....	5	.....	1	.....	w.	.....	.....	.....	.....	clear.
MISCELLANEOUS.																		
Schr. Addie Fuller, Cedar Keys, Florida†	30.3c	769.6	66.5	19.2	87	e.	.....	.....	3	3 ck	0	ne.	.....	0	0	.....	.....	clear.
Bk. Adelaide, N. 0° 52′, W. 31° 12′*†	30.02	762.5	81	27.2	.....	ese..	.....	.....	3	.....	3	.....	se.	2 h'r	light	mod.	cross	fair.
Bk. Alpha, N. 28° 25′, W. 73° 20′*†	30.24	768.1	70	21.1	.....	se.	.....	.....	2	.....	1	.....	.....	0	0	sm'h	ne.	fair.
Schr. Annie M. Law, N. 43° 18′ W. 51° 43′*†	29.70	754.4	41	5.0	82	sse.	.....	.....	6	.....	10	.....	.....	5 h'r	s now	.....	ne.	snowing.
Schr. Annie R. Lewis, N. 37° 05′, W. 71° 43′*†	30.16	766.1	48	8.9	.....	nnw.	.....	.....	4	.....	5	.....	nnw.	0	0	r'gh	n.	fair.
Schr. Annie M. Smull, N. 2° 28′, W. 27° 25′*†	30.00	762.0	89	31.7	.....	ne.	.....	.....	.....	.....	.....	.....	.....	1 h'r	1 h'r	mod.	se.	clear.
Bk. Bergenseren, N. 33° 41′, W. 49° 45′†	30.11	764.8	.....	.....	.....	ssw.	.....	.....	3	.....	.....	.....	sw.	rain	rain	4	nw.	d. clouds.
Bk. Celestina, N. 32° 15′ W. 37° 39′*†	30.14	765.5	.....	.....	.....	sw.	.....	.....	2	.....	4	.....	w.	0	0	r'gh	ssw.	
Bk. E. L. Pettingill, S. 41° 29′ W. 78° 57′†	30.30	769.6	.....	.....	.....	wnw.	.....	.....	3	.....	8	.....	w.	0	0	mod.	w.	cloudy.
S. Enoch Train, Bremerhaven, Germany*	29.94	760 5	.....	.....	.....	w.	.....	.....	2	.....	5	.....	nw.	sh'rs	sh'rs	.....	.....	fine.
U.S. F.C.S. Fish Hawk, Annapolis Roads, Md†	30.33	770.4	46	7.8	77	nw.	.....	.....	4	.....	9	.....	nw.	0	0	.....	.....	cloudy.
Bk. Freya, N. 27° 00′, W. 69° 51′	.....	.....	70	21.1	.....	ne.	.....	.....	1	.....	2	.....	nw.	0	0	sm'h	.....	fair.
S. Grecian, N. 29° 42′, W. 18° 41′*†	30.26	768.6	63	17.2	.....	ene.	.....	.....	5	.....	2	.....	ene.	0	0	mod.	nne.	clear.
Bk. Geo. Booth, S. 30° 50′, W. 22° 00′*†	29.95	760.7	.....	.....	.....	nne.	.....	.....	5	.....	2	.....	.....	0	0	mod.	ne.	clear.
Bk. Granville, N. 1° 43′, W. 27° 58′*†	30.12	765.0	.....	.....	.....	ese.	.....	.....	1	.....	.....	.....	ene.	0	0	sm'h	.....	clear.
Schr. Henry Denison, N. 19° 18′, W. 59° 48′†	30.14	765.5	.....	.....	.....	ene.	.....	.....	4	.....	5	.....	e.	sh'rs	shr's	mod.	se.	fair.
Bk. Johanne Auguste, S. 26° 33′. E. 85° 27′*†	29.93	760.2	.....	.....	.....	e.	.....	.....	3	.....	3	.....	ne.	0	0	long	ssw.	fair.
Bk. Kate Cann, N. 41° 40′, W. 48° 00′	.....	.....	.....	.....	.....	nw.	.....	.....	6	.....	10	.....	nw.	8 h'r	8 h'r	hv'y	n.	hailing.
Bkt. Kryolith, N. 38° 56′, W. 45° 58′*†	30.04	763.0	.....	.....	.....	sse.	.....	.....	2	.....	2	.....	.....	0	0	hv'y	ne.	fair.
S. S. Lamperts, N. 40° 07′, W. 53° 57′*	29.51	749.5	58.0	14.4	91	ssw.	.....	.....	6	.....	10	.....	.....	.....	.....	8	.....	heavy rain.
Schr. Maggie Abbott, N. 29°, W. 72°*†	30.22	767.6	.....	.....	.....	s.	.....	.....	1	.....	.....	.....	.....	0	0	mod.	n.	clear.
S. S. Malabar, N. 37° 35′, W. 65° 26′*†	30.02	762.5	.....	.....	.....	nw.	.....	.....	5	.....	1	.....	nw.	0	0	cross	.....	clear.
Bk. Pawashick, N. 16° 18′, W. 59° 18′*†	30.40	772.1	75	23.9	90	ne.	.....	.....	3	.....	5	.....	ne.	.....	.....	mod.	n; ne	raining.
Bk. Peppina, N. 40° 31′, E. 18° 53′†	29.88	758.9	59	15.0	94	wsw.	.....	.....	2	.....	5?	.....	var.	.....	.....	mod.	s.	overcast.?
Bk. Pilgrim, S. 45° 40′, E. 26° 30′*†	29.40	746.7	.....	.....	.....	w.	.....	.....	6	.....	2	.....	w.	hail	hail	high	w.	smoky.
Schr. S. B. Hubbard, Jacksonville, Florida*†	30.23	767.8	65	18.3	.....	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	.....	fine.
Bk. Stella, S. 45° 10′, W. 53° 10′*†	29.89	759.2	56.5	13.6	93	w.	.....	.....	5	.....	4	.....	nw.	0	0	r'gh	sw.	d. clouds.
Bk. Sunbeam, N. 21° 48′, W. 56° 16′*†	30.19	766.8	76	24.4	82	nne.	.....	.....	6	.....	5	.....	ne.	0	0	mod	n.	fair.
S. S. Victoria J. Peed, Off Hatteras, N. C.*†	30.20	767.1	.....	.....	.....	nne.	.....	.....	1	.....	9	.....	nw.	.....	.....	long	se.	
Bg. Wauburn, S. 33° 06′ E. 16° 51′*†	30.15	765.8	.....	.....	.....	wsw.	.....	.....	4	.....	5	.....	w.	.....	.....	long	sw.	
S. Wm. Woodbury, Bremerhaven, Germany*†	30.10	764.5	49	9.4	85	w.	.....	.....	2	.....	.....	.....	w.	.....	.....	.....	.....	



Data, as appearing in the International Bulletin of similar date.

Isobars in *black* exhibit atmospheric pressure at sea-level, and are charted from data as reported by the several observers.

Isotherms in *red* exhibit temperature of air, similarly charted.

Broken or dotted lines indicate that the lines so broken are doubtful.

Arrows, when charted, fly with the wind and exhibit wind-direction and force.

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W. B. Hazen

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INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON MARCH 8, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind.		Clouds. Direction.		Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
												Upper.	Lower.	Upper.	Lower.				
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
ALGERIAN.																			
Nemours	.....	.....	30.35	770.9	62.2	16.8	77	w.	.....	.....	3	.....	0	.....	.....	0	0	clear	Moiroud.
Algiers	.....	.....	30.40	772.1	60.1	15.6	73	nw.	.....	.....	1	.....	0	.....	.....	0	0	clear	Nicolas.
La Calle	.....	.....	30.30	769.5	62.6	17.0	84	n.	.....	.....	2	.....	4	.....	.. ..	0.157	4.0	cloudy	Fonfrède.
Tunis	.....	.....	30.21	767.4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.36	771.2	52.9	11.6	79	n.	.....	.....	1	.....	3	.....	.....	0	0	pretty fair	Dumas.
Tebessa	.....	.....	30.23	767.9	48.6	9.2	87	ene.	.....	.....	2	.....	7	.....	.....	inap.	inap.	very cloudy.	Derché.
Geriville	.....	.....	.....	.....	48.9	9.4	34	ne.	.....	.....	1	.....	8	.....	.....	0	0	very cloudy	Lonchamp.
Laghouat	.....	.....	30.39	771.9	55.4	13.0	51	n.	.....	.....	1	.....	1	.....	.....	0	0	very fair	Herbin.
Biskra	.....	.....	30.30	769.7	70.2	21.2	23	n.	.....	.....	3	.....	5	.....	.....	0	0	cloudy	Malau.
AUSTRALIAN.																			
Melbourne, Victoria	29.84	757.9	29.93	760.2	64.1	17.8	89	wsw.	5	2.2	.....	.....	2	.....	.....	0	0	fine	R. L. J. Ellery.
AUSTRO-HUNGARIAN.																			
Agram	29.89	759.1	30.45	773.4	51.8	11.0	43	s.	.....	.....	2	.....	0	.....	.....	0	0	.....	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.50	749.3	30.29	769.4	43.5	6.4	62	wsw.	17.4	7.8	.....	.....	10	.....	.....	0	0	.....	Dr. Wierzbiski.
Eperies	29.39	746.5	30.30	769.6	42.8	6.0	65	s.	.....	.....	3	0	8 s	.....	.....	0	0	.....	Julius Mikolik.
Gratz	29.17	740.8	30.45	773.3	50.0	10.0	54	s.	.....	.....	2	.....	0	.....	.....	0	0	.....	Andreas Rospini.
Hermannstadt	28.84	732.5	30.30	769.7	49.3	9.6	60	sse.	.....	.....	3	.....	2	.....	.....	0	0	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	29.05	737.9	30.42	772.7	49.5	9.7	75	calm	.....	.....	0	.....	3	.....	.....	0	0	almost clear	The Staff.
Lemberg	29.20	741.7	30.22	767.7	39.2	4.0	93	sw.	.....	.....	2	.....	10	.....	.....	inap.	inap.	.....	Dr. T. Stanecki.
Pola	30.22	767.7	30.34	770.6	60.6	15.9	34	nne.	.....	.....	3	.....	1	.....	.....	0	0	.....	I. R. Hydrographic Office.
Szathmar	29.88	759.0	30.35	771.0	44.6	7.0	47	sw.	.....	.....	1	.....	10	.....	.....	0	0	.....	Joseph Midlinszky, S. J.
Szegedin	30.12	765.0	30.41	772.4	47.5	8.6	.....	ne.	.....	.....	1	.....	0	.....	.....	0	0	.....	Karl Stancel.
Trieste	30.28	769.2	30.39	771.8	59.7	15.4	34	ne.	.....	.....	3	.....	0	.....	.....	0	0	.....	Rieder.
Vienna	29.64	752.9	30.37	771.4	54.3	12.4	47	w.	.....	.....	5	.....	7	.....	.....	0	0	.....	I. R. Central Met. Obs'y.
BRITISH.																			
Aberdeen	29.54	750.3	29.64	752.8	53.1	11.7	68	sw.	26	11.6	.....	.....	7	.....	.....	0	0	d. clouds	W. Boswell.
Armagh, Observatory	29.69	754.1	29.93	760.2	48.3	9.1	88	wsw.	18	8.0	.....	.....	4	.....	.....	.....	.....	d. clouds	S. Call.
Bidston, Liverpool Obs'y	.....	.....	30.01	762.2	55.1	12.8	79	sw.	40	17.9	.....	.....	7	.....	.....	.....	.....	d. clouds	John Hartnup.
Bolton, Sharples	29.49	749.0	30.03	762.7	52.1	11.2	79	ssw.	24	10.7	.....	.....	10	.....	.....	.....	.....	overcast	Thomas Mackereth. [A.S.
Bradford, Yorkshire	29.56	750.8	29.95	760.7	54.6	12.6	75	sw.	.....	.....	5	.....	5	.....	.....	0.10	2.5	d. clouds	J. McLandsborough, F. R
Bridgetown, Barbadoes	30.02	762.5	30.05	763.3	82.0	27.8	62	ne.	.....	.....	2	.....	2	.....	.....	.....	.....	d. clouds	Pvt. J. Surgenor, A. H.C.
Cardington	.....	.....	30.18	766.0	56.0	13.3	74	w.	.....	.....	4.0	.....	10	.....	.....	.....	.....	overcast	John McLaren.
Chatham, School M. E.	30.14	765.5	30.27	768.8	53.3	11.8	79	w.	.....	.....	2	.....	8	.....	.....	.....	.....	d. clouds	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	30.06	763.5	30.30	769.6	54.1	12.3	87	sw.	.....	.....	6	.....	9	.....	.....	.....	.....	foggy	The Staff.
Fort Napier, Natal	27.39	695.7	29.61	752.1	80.2	26.8	61	se.	.....	.....	1	.....	7	.....	.....	.....	.....	.....	Pvt. E. K Annis, A.H.C.
Free Town, Sierra Leone	29.59	751.6	29.82	757 4	87.0	30.6	58	w.	.....	.....	1	.....	2	.....	.....	.....	.....	d. clouds	Sergt. John Robinson.
Galway, Queen's College	.....	.....	30.00	762.0	.....	.....	.....	wsw.	.....	.....	3	.....	8	.....	.....	0.27	6.9	gloomy	J. O'Donaghue.
Gibraltar, Mediterranean	30.28	769.1	30.34	770.6	67.5	19.7	74	ne.	.....	.....	5	.....	3	.....	.....	.....	.....	blue sky	Cpl. O. Baldwin.
Glasgow, Observatory	29.58	751.3	29.79	756.7	47.5	8.6	81	wsw.	.....	.....	4	.....	10 k	.....	.....	.....	.....	d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	30.10	764.5	30.27	768.8	52.6	11.4	79	sw.	.....	.....	5	.....	10	.....	.....	.....	.....	overcast	The Staff.
Guernsey	30.10	764.5	30.40	772.1	51.0	10.6	96	sw.	.....	.....	1	.....	9	.....	.....	.....	.....	d. clouds	A. Collenette, F. M. S.
Kew, Observatory	30.24	768.1	30.28	769.1	53.1	11.7	73	sw.	22	9.8	.....	.....	10	.....	.....	.....	.....	threatening.	The Staff.
Leicester, Museum	29.92	760.0	30.18	766.6	55.5	13.1	68	sw.	.....	.....	2	.....	8	.....	.....	.....	.....	d. clouds	J. C. Smith.
Malta, Mediterranean	29.97	761.2	30.04	763.0	62.0	16.7	57	ne.	.....	.....	3	.....	4	.....	.....	.....	.....	d. clouds	I. H. Whysall.
Nassau, Bahamas	30.24	768.1	30.29	769.4	73.5	23.1	65	e.	.....	.....	1	.....	5	.....	.....	.....	.....	d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.61	752.1	30.14	765.5	53.7	12.1	76	ssw.	.....	.....	3	.....	10	.....	.....	.....	.....	overcast	John Mac Email.
Oxford, Radcliffe Obs'y	30.01	762.2	30.24	768.1	53.8	12.1	73	ssw.	.....	.....	5	.....	10	.....	.....	.....	.....	squally	The Staff.
Plymouth	30.23	767.8	30.31	769.9	55.8	13.2	77	sw.	.....	.....	2	.....	10	.....	.....	.....	.....	overcast	John Merrifield.
Sandwick Manse, Orkneys	.....	.....	29.48	748.8	46.1	7.8	76	sw.	30	13.4	.....	.....	5	.....	.....	.....	.....	d. clouds	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	30.11	764.8	30.17	766.3	51.0	10.6	59	ne.	.....	.....	3	.....	4	.....	.....	.....	.....	d. clouds	W. H. Lyne.
Sheffield	29.75	755.6	30.03	762.7	56.1	13.4	75	sw.	.....	.....	5	.....	4	.....	.....	0.02	0.5	.....	W. F. Cooper.
Silloth Rectory	29.84	757.9	29.87	758.7	47.2	8.4	96	ssw.	.....	.....	6	.....	10	.....	.....	0.136	3.4	raining	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	30.02	762.5	52.0	11.1	79	sw.	27	12.1	.....	.....	10	.....	.....	.....	.....	overcast	R. S. J. Perry.
Stratfield Turgiss	30.07	763 8	30.29	769.4	53.4	11.9	79	w.	.....	.....	3	.....	8	.....	.....	.....	.....	squally	Rev. C.H. Griffiths, F.M.S.
Truro, Royal Institution	30.26	768.6	30.30	769.6	58	14.4	81	w.	.....	.....	6	.....	6	.....	.....	.....	.....	d. clouds	W. Newcombe.
Valencia, Observatory	30.08	764.0	30.10	764.5	53.3	11.8	84	sw.	21	9.4	.....	.....	4	.....	.....	.....	.....	d. clouds	The Met'g'l Office.
CANADIAN.																			
Charlottetown, P. E. Island	30.36	771.1	30.40	772.1	7	—13.9	91	n.	12	5.4	.....	0	0	.....	.....	0.020	0.5	clear	H. J. Cundall, C. E.
Chatham, N. B*	30.41	772.4	30.47	773.9	5	—15.0	87	nw.	13	5.8	.....	0	0	.....	.....	0	0	clear	G. A. Blair.
Father Point, Quebec*	30.55	776.0	30.58	776.7	0	—14.4	87	nw.	5	2.2	.....	0	0	.....	.....	0	0	clear	J. McWilliams.
Fort Garry, Manitoba*	29.50	749.3	30.42	772.7	5	—15.0	96	s.	10	7.2	.....	4 k	4 n	s.	s.	0	0	cloudy	James Stewart.
Halifax, N. S*	30.28	769.1	30.42	772.7	11	—11.7	83	w.	8	3.6	.....	0	0	.....	.....	0.100	2.5	clear	A. Allison.
Kingston, Ontario*	30.38	771.6	30.75	781.0	16	— 8.9	70	n	3	1.3	.....	0	0	.....	.....	0	0	clear	A. P. Knight, M. A.
Montreal, Quebec*	30.49	774.4	30.72	780.3	14	—10.0	48	nw.	5	2.2	.....	0	0	.....	.....	0	0	clear	C. H. McLeod, C. E.
Parry Sound, Ontario*	30.01	762.2	30.80	782.3	3	—16.1	72	ne.	8	3.6	.....	0	0	.....	.....	0	0	clear	Rev. R. Mosley.
Port Dover, Ontario	29.95	760.7	30.71	780.0	18	— 7.8	84	n.	6	2.7	.....	0	0	.....	.....	inap.	inap.	clear	H. Morgan.
Port Stanley, Ontario	29.98	761.5	30.69	779.5	18	— 7.8	83	ne.	8	3.6	.....	.....	8 k	.....	se.	inap.	inap.	cloudy	M. Payne.
Quebec, Quebec*	30.25	768.3	30.61	777.5	4	—15.6	72	nw.	.....	.....	6	0	0	.....	.....	0	0	clear	Capt. Ashe, R. N.
Rockliffe, Ontario*	30.29	769.4	30.81	782.6	— 2	—18.9	87	calm	0	0	.....	0	0	.....	.....	0	0	clear	W. H. McIntyre.
Saugeen, Ontario*	29.95	760.7	30.74	780.8	13	—10.6	83	calm	0	0	.....	0	0	.....	.....	0	0	clear	
St. Andrews, N. B	30.45	773.4	30.51	774.9	11	—11.7	59	nnw.	3	1.3	.....	0	0	.....	.....	0.05	1.3	clear	
Sydney, C. B*	30.20	767.1	30.26	768.6	8	—13.3	80	nw.	9	4.0	.....	0	0	.....	.....	0	0	clear	G. Murdock, C. E.
Toronto, Ontario*	30.33	770.4	30.75	781.0	19	— 7.2	70	ne.	10	4.5	.....	.....	0	.....	.....	inap.	inap.	clear	Magnetic Observatory.
Yarmouth, N. S*	30.40	772.1	30.47	773.9	17	— 8.3	70	ne.	2	0.9	.....	2 k	0	n.	.....	0.02	0.5	fair	Lt. F. E. Wilmot, R. N.
Sub-series.																			
St. Johns, Newfoundland	29.80	756.9	30.08	764 0	3	—16.1	.....	ne.	1	0.4	.....	0	0	.....	.....	0.30	7.6	.....	John Delany.
CAPE COLONY.																			
Cape St. Francis Lt. House	30.16	766.1	30.19	766.8	61.5	16.4	70	sw.	24.1	10.8	.....	.....	10 n	.....	.....	0	0	hazy	John Duthie.
Cape Town, C. G. H. Obs'y	30.22	767.6	30.26	768.6	74.2	23.4	40	sse.	34	15.2	.....	1	3	.....	.....	0	0	.....	The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
CHINESE (*Sub-series*).																			
Hankow	30.26	768.6	30.55	776.0	48.1	8.9	74	nnw.			2		5			0	0		N. Titoushkin.
Zi-Ka-Wei, near Shanghai.	30.34	770.7	30.37	771.3	42.8	6.0	74	e.	1.8	0.8			10 k			0	0	covered	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	29.91	759.7	29.96	760.9	47.5	8.6	91	w.	22.4	10			10					foggy	Oversergeñt Fischer.
Fanöe	29.95	760.8	29.97	761.3	45.5	7.5	91	w.			6		8						Overloerer Lauridsen.
Godthaab, Greenland	29.00	736.6	29.04	737.7	— 3.6	—19.8		nw.			2		10					snowing	S. Kleinschmidt.
Stykkisholm, Iceland	28.76	730.5	28.80	731.6	27.1	— 2.7	91	sw.			7		10					snowing	A. O. Thorlacius.
Thorshavn	29.22	742.3	29.26	743.2	43.5	6.4	75	sw.	17.9	8			3						Overloerer Bergh.
Vestervig	29.72	754.8	29.81	757.1	45.7	7.6	91	wsw.			6		4						Loearer Oesterbol.
FRENCH.																			
Agen, Normal School	29.79	756.7	30.45	773.3	58.6	14.8	78	calm			0		0			0	0	clear	M. Labroue, Director.
Alençon, Normal School	29.92	760.0	30.47	774.0	52.7	11.5	93	s.			1		n		ne.	0.008	0.2		M. Nicot, Director.
Arras, Engineer School	30.09	764.2	30.35	770.8	55.2	12.9	82	w.			3		10		w.	0	0	covered	M. Klein, Commandant.
Avignon, Normal School	30.32	770.2	30.40	772.2	63.0	17.2	43	n.			1		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.91	759.6	30.47	774.0	54.5	12.5	71	s.			1		10			0	0	covered	M. Saillard, Director.
Beauvais, Normal School	30.19	766.7	30.45	773.5	59.4	15.2	68	w.			1		8		w.	0	0	very cloudy	M. Frère Eugène Mari.
Besançon, Normal School	29.48	748.9	30.40	772.1	55.2	12.9	57	ne.			1		0			0	0	clear	M. Gobin, Director.
Bordeaux, Observatory	30.18	766.6	30.45	773.3	57.4	14.1	63	ne.			1		0			0	0	clear	M. Rayet, Director.
Bourges, Normal School	29.91	759.6	30.47	773.7	56.3	13.5	66	e.					1		e.	0	0	clear	M. Postel, Director.
Brest, Naval Observatory	30.19	766.8	30.43	772.9	54.0	12.2	95	sw.			3		10		sw.	0.059	1.5	misty	M. de Kermaree, Dir.
Caen, Normal School	30.31	769.9	30.39	771.8	58.6	14.8	78	wsw.			2		8		wsw.	0	0	very cloudy.	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	30.06	763.5	30.39	771.8	55.2	12.9	79	ssw.			2		8	s.	sw.	0	0	very cloudy	M. Jadot, Director.
Charleville, Normal School	29.91	759.6	30.43	772.9	52.2	11.2	75	sw.			1		10			0	0	covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	29.09	738.8	30.47	773.8	53.6	12.0	56	nw.			1		0			0	0	clear	M. Alluard, Director.
Cluny, Normal School	29.60	751.8	30.46	773.7	55.4	13	66	se.			2		8			0	0		M. de Villemontée, Dir.
Commercy, Normal School.	29.61	752.0	30.50	774.6	53.8	12.1	72	w.			1	c	5 n	w.	w.	0	0	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.75	704.9	30.27	768.9	60.8	16	46	s.			1					0	0		M. Jeangirard, Director.
Gréasque, du. Rhone	29.24	742.6	30.35	770.9	66.7	19.3	33	n.			1		0			0	0	clear	M. Kina, Director.
Grenoble, Normal School	29.66	753.3	30.43	773.0	55.8	13.2	54	s.			1		0			0	0	clear	M. Ablard, Director.
Guéret, Normal School	28.85	732.7	30.46	773.7	54.5	12.5	61	se.			2		0			0	0	clear	M. Rivoire, Director.
Lamballe, Normal School	30.17	766.3	30.45	773.3	53.6	12	82	ssw.			2		8		ssw.	0	0	very cloudy.	M. Ollitrault, Director.
Lescar, Normal School	29.85	758.1	30.41	772.5	62.6	17	52	e.			2		0			0	0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	30.39	771.8	30.49	774.4	51.8	11.0	100	s.			4		10			0.016	0.4	covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.40	746.8	30.48	774.1	53.8	12.1	39	n.			2		0			0	0	clear	M. André, Director.
Mans, Normal School	30.09	764.3	30.41	772.3	53.4	11.9	96	w.			1		5		w.	0	0	cloudy	M. Piboen, Director.
Marseille, Observatory	30.10	764.5	30.37	771.4	64.0	17.8	68	w.			0.1		0			0	0		M. Stephan, Director.
Montlouis l'instituteur	25.12	638.0	29.96	761.0	48.2	9.0	36	e.	9.4	4.2			0			0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	30.25	768.3	30.38	771.7	64.0	17.8	47	n.			2		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.68	753.8	30.47	774.0	53.6	12	74	wsw.			1	1 c	0			0	0	clear	M. Hasse, Director
Nantes, Observatory	30.35	771.0	30.52	775.1	53.4	11.9	84	ssw.			0–1		10 kn; n			0.008	0.2		M. Larocque, Director.
Perpignan, Observatory	30.29	769.4	30.41	772.3	64.2	17.9	29	se.	7.4	3.3			0			0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.51	546.3			39.4	4.1		ne.			1		1		w.	0	0	clear	Gen'l de Nansouty, Dir.
Privas, Normal School	29.35	745.6	30.43	772.9	57.9	14.4	45	n.			1	1	1	n.	n.	0	0	clear	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.48	647.3			40.1	4.5	39	e.			3		0			0	0	clear	M. Alluard, Director.
Rochefort, Naval Obs'y	30.46	773.7	30.49	774.5	52.2	11.2	90	n.			1		10		n.	0	0	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	30.26	768.6	30.48	774.2	52.5	11.4	78	nw.			1		5		sw.	0	0	cloudy	M. Mouillot, Director.
Rodez, Normal School	28.20	716.3	30.38	771.6	51.8	11.0	58	nw.			1		0			0	0	clear	M. Serger, Director.
Rouen, Normal School	30.39	771.8	30.43	773.0	61.2	16.2	67	sw.			1		8			0	0	very cloudy.	M. Platrier, Director.
Saint Maur, Observatory	30.30	769.6	30.47	773.8	51.8	11.0	88	sw.			1		10			0	0		M. Renou, Director.
Toulouse, Observatory	29.74	755.4	30.47	774.0	57.0	13.9	57	ne.			1		1		w.	0	0	clear.	M. Baillaud, Director.
Versailles, Observatory	29.96	760.9	30.45	773.4	53.6	12.0	87	w.			1					0	0		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	30.19	766.8	30.48	774.2	52.3	11.3	90	sw.			1		10		sw.	0	0		M. Marié Davy, Director
GERMAN.																			
Bamberg	29.57	751.0	30.43	773.0	50.0	10.0	60	sw.			2	c	3 8		sw.	0	0		Prof. Dr. Hoh.
Berlin	30.01	762.2	30.19	766.7	52.7	11.5	75	sw.			3		10			0.075	1.9		Prof. Dr. Arndt.
Breslau	29.72	755.0	30.26	768.6	49.1	9.5	72	wsw.			2		10			0.008	0.2		Royal University Obs'y.
Carlsruhe	30.00	762.1	30.45	773.5	55.8	13.2	66	sw.			2		9	w.		0	0		Albert Senz.
Cassel	29.56	750.9	30.28	769.0	52.0	11.1	76	s.			4		8	sw		0	0		Dr. H. Möhl.
Frankfort on the Main	30.03	762.8	30.41	772.3	53.4	11.9	63	ssw.			1		1c			0	0		Physical Society.
Friedrichshafen	29.00	736.7	30.48	774.3	45.9	7.7	80	sw.			2		1	n.		0	0		Wilhelm, Chief Tel.
Hamburg	30.07	763.8	30.17	766.2	48.7	9.3	87	wsw.			4		10			0.031	0.8		E. Preller.
Kiel	30.05	763.2	30.06	763.6	48.6	9.2	88	sw.			5		10			0.205	5.2		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.88	758.9	30.30	769.7	54.3	12.4	66	sw.			3		9			0.020	0.5		H. Leppig, Asst.
Magdeburg	30.04	763.0	30.23	767.8	55.0	12.8	73	w.			5		10 ks		w.	0	0		Dr. Assmann.
Memel	29.78	756.3	29.82	757.5	38.1	3.4	100	sw.			5		10					rain and fog.	Issermann.
Munich	28.60	726.5	30.50	774.6	54.0	12.2	44	nw.			1		4	s.		0	0		Central Station.
Neufahrwasser	29.93	760.2	29.95	760.6	47.7	8.7	92	wnw.			5		10			0.008	0.2	raining.	A. Lothes.
Neustadt, Palatinate	29.88	759.0	30.42	772.6	50.8	13.8	69	w.			1		10			0	0		Dicknether.
Stuttgart	29.47	748.6	30.37	771.4	57.6	14.2	58	sw.			1		7	n.		0	0		Prof. Dr. Schoder.
Wustrow	30.05	763.3	30.08	763.9	44.4	6.9	91	sw.			5		10 s			0.130	3.3		Profs. Brandes & Reimer.
GREEK.																			
Athens	29.63	752.5	30.02	762.5	59.0	15.0		ne.			3.0		7			0	0	½ clear	Schmidt & Wourlisch.
INDIAN.																			
Bellary	28.39	721.1			92.5	33.6	10	se.	5.1	2.3		3 ck	5	sw.		0	0	d. clouds	
Kurrachee	29.96	760.9	30.01	762.2	84.2	29.0	70	wnw.	20	8.9			0			0	0	misty	
Deesa	29.39	746.4	29.85	758.2	92.6	33.7	16	calm	11.0	4.9			0			0	0	blue sky	
Bombay	29.82	757.4	29.86	758.4	80.9	27.2	72	nw.	16	7.2			4	wsw.		0	0	d. clouds	
Poona, Yarrowda	27.97	710.4	29.76	755.8	96.8	36.0	13	s.	20	8.9			7	wnw.		0	0	d. clouds	
Belgaum	27.32	694.0	29.82	757.3	85.4	29.7	47	ese.	4	1.8			0			0	0	blue sky	
Lahore	29.16	740.6	29.91	759.7	76.9	24.9	19	nw.	1.9	0.8			0			0	0	blue sky	
Roorkee	28.97	735.8	29.88	758.9	76.6	24.8	19	nw.	3.7	1.6			0			0	0		
Agra	29.36	745.7	29.92	760.0	83.2	28.4	17	w.	6.6	3.0			0			0	0		
Nagpur	28.78	730.9	29.79	756.6	95.7	35.4	20	s.	3.1	1.4			4	w.		0	0	d. clouds	
Jubbulpore	28.55	725.1	29.89	759.2	86.8	30.4	28	ne.	2.1	0.9			7		e.	0	0	d. clouds	
Lucknow	29.50	749.4	29.88	758.9	86.1	30.1	16	wsw.	8.6	3.8			5	w.		0	0	misty	
Allahabad	29.56	750.9	29.88	758.8	83.5	28.6	18	w.	3.2	1.4			3		w.	0	0	d. clouds	
Patna	29.65	753.1	29.83	757.8	85.6	29.8	81	w.	7.1	3.2			4	w.	w.	0	0	d. clouds	
Hazaribagh	27.87	707.8	29.87	758.7	79.8	26.6	34	nw.	11.0	4.9			6		n.	0	0		
Cuttack	29.75	755.5	29.83	757.6	91.3	32.9	24	ssw.	1.3	0.6			1			0	0	blue sky	
Calcutta, Alipore	29.80	756.9	29.82	757.4	86.7	30.4	39	nnw.	1.0	0.4			1			0	0	d. clouds	
Dhubri	29.63	752.7	29.76	755.8	81.9	27.7	44	calm	2.2	1.0			0			0	0	blue sky	
Chittagong	29.78	756.5	29.88	758.8	77.4	25.2	89	sw.	5.1	2.3			0			0	0	blue sky	
Sibsagar	29.49	748.9	29.83	757.6	71.8	22.1	77	ne.	2.4	1.1			6	e.	e.	0.02	0.5	d. clouds	
Jeypore	28.49	723.7	29.94	760.4	80.7	27.1	19	nnw.	7.2	3.2			3		nnw.	0	0	d. clouds	
Zanzibar, Africa	29.80	756.9			83.9	28.8	67	nne.	10.8	4.8			6			0	0	d. clouds	
Trichinopoly	29.63	752.6			91.6	32.8	34	e.	2	0.9			10			0	0	overcast	
ITALIAN.																			
Udine	30.00	762.1	30.42	772.6	56.1	13.4	35	ne.	0.7	0.3			3			0	0		Prof. Giovanni Clodig.
Milan	29.91	759.7	30.43	773.0	56.5	13.6	58	se.	3.8	1.7			0			0	0		Prof. Schiaparelli.
Padua	30.31	769.8	30.42	772.6	55.0	12.8	49	n.	1.3	0.6			1			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.49	749.1	30.41	772.5	56.7	13.7	55	sse.	1.3	0.6			0			0	0		Prof. P. F. Denza.
Genoa	30.14	765.6	30.34	770.5	65.7	18.7	32	n.	8.7	3.9			0			0	0		Prof. G. M. Garibaldi.
Mondovi	28.46	722.9	30.40	772.2	54.9	12.7	48	w.			2		0			0	0		Prof. D. C. Bruno.

STATIONS.	BAROMETER. Corrected for instrumental error and for temperature.		BAROMETER. Reduced to sea-level.		Temperature of the air.		Relative humidity.	WIND. Direction.	WIND. Velocity.		WIND. Force.	CLOUDS. Amount and kind.		CLOUDS. Direction.		Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
												Upper.	Lower.	Upper.	Lower.				
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
ITALIAN.—Continued.																			
Pesaro	30.34	770.5	30.38	771.7	53.1	11.7	56	n.	12.5	5.6	.....	.....	0	.....	.....	0	0	.....	Prof. Luigi Guidi.
Florence	30.08	763.9	30.33	770.4	62.2	16.8	26	ne.	.....	.....	6	.....	0	.....	.....	0	0	.....	Prof. Costantino Pitter.
Leghorn	30.18	766.6	30.27	768.8	60.1	15.6	57	nw.	4.3	1.9	.....	.....	0	.....	.....	0	0	.....	Prof. P. Monte.
Rome	30.03	762.8	30.21	767.2	64.9	18.3	24	n.	8.7	3.9	.....	.....	0	.....	.....	0	0	.....	Prof. P. S. Ferrari.
Lecce	29.86	758.5	30.12	765.0	58.6	14.8	56	nne.	19.9	8.9	.....	.....	4	ne.	.....	0	0	.....	Prof. C. de Giorgi.
Cosenza	29.25	742.9	30.15	765.8	53.2	11.8	71	nnw.	13.0	5.8	.....	.....	9	nw.	.....	0	0	.....	Prof. D. Conti.
Cagliari	30.04	762.9	30.23	767.8	60.3	15.7	45	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	Prof. A. Pacinotti.
Palermo	29.92	760.0	30.17	766.4	60.1	15.6	61	ne.	10.5	4.7	.....	.....	2	.....	.....	0	0	.....	Prof. G. Ciacciatore.
Syracuse	30.01	762.2	30.05	763.3	58.5	14.7	66	ene.	20.6	9.2	.....	.....	10	ene.	.....	0.787	20.0	.....	Prof. Vincenzo Guiliano.
Sub-series.																			
Naples, S. R	29.68	753.8	30.21	767.2	59.0	15.0	46	e.	7.4	3.3	.....	.....	1	nnw.	.....	0	0	.....	Prof. T. Brioschi.
Stelvio	22.46	570.5	.....	.....	33.4	0.8	57	se.	.....	.....	1	.....	0	.....	.....	0	0	clear	Prof. P. F. Denza.
Valdobbia	22.49	571.3	.....	.....	35.6	2.0	58	ne.	.....	.....	2	.....	0	.....	.....	0	0	clear	Prof. P. F. Denza.
JAPANESE.																			
Aomori	30.10	764.5	30.14	765.5	28.1	— 2.2	75	w.	0.6	0.3	.....	0	0	.....	.....	0.038	1.0	clear	K. Ogawa.
Hakodate	30.09	764.3	30.10	764.5	34.0	1.1	66	wsw.	9.0	4.0	.....	.....	1	.....	s.	0	0	clear	
Hiroshima, I. M. Obs'y	30.19	766.8	30.21	767.3	39.5	4.2	84	nne.	3.7	1.6	.....	ck	2 s	.....	.....	0	0	fair	K. Sasaki.
Kanazawa	30.11	764.8	30.21	767.3	40.0	4.4	76	s.	7.3	3.3	.....	0	1 s	.....	.....	0.120	3.0	clear	S. Endo.
Kioto	30.05	763.3	30.23	767.8	35.5	1.9	87	nnw.	1.7	0.8	.....	0	0	.....	.....	0	0	clear	M. Tojima.
Kochi	30.18	766.6	30.20	767.1	45.1	7.3	75	n.	6.3	2.8	.....	2ck;cs	0	.....	.....	0	0	fair	
Nagasaki, I. M. Obs'y	30.05	763.3	30.26	768.6	42.8	6.0	80	n.	0.9	0.4	.....	0	0	.....	.....	0	0	clear	S. Takehayashi.
Niigata	30.14	765.5	30.18	766.6	39.0	3.9	91	se.	1.5	0.7	.....	10 ck	0	.....	.....	0.240	6.1	covered	
Nobiru	30.13	765.3	30.14	765.5	33.3	0.7	90	nnw.	4.9	2.2	.....	0	6 s	.....	.....	0	0	fair	H. Midzushina.
Supporo	.....	.....	.....	.....	28.5	— 1.9	91	se.	18.0	8.0	.....	.....	6?	.....	.....	0	0	overcast?	
Tokei Obs'y, Yeddo	30.06	763.5	30.13	765.3	39.7	4.3	92	calm	0	0	.....	0	7 s	.....	.....	0	0	cloudy	The Staff.
Wakayama	30.16	766.0	30.22	767.6	40.0	4.4	75	n.	2.2	1.0	.....	10 ck	0	.....	.....	0	0	cloudy	Y. Kuwamuea.
MAURITIUS.																			
Mauritius Observatory	29.66	753.4	29.84	757.9	80.0	26.7	85	ene.	12.0	5.4	.....	1 ck	8 ks;n	.....	ne.	0.90	22.9	cloudy	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.66	600.9	29.88	758.9	53.6	12.0	80	se.	.....	.....	.....	0	0	.....	.....	0	0	clear	Vicente Fernandez.
Leon	24.38	619.3	30.09	764.3	56.1	13.4	74	nnw.	.....	.....	1	0	0	.....	.....	0	0	foggy	Prof. M. Leal.
Mazatlan	29.74	755.3	30.00	762.0	62.0	16.7	72	nw.	15.5	6.9	.....	0	0	.....	.....	0	0	clear	F. Quijano, C. E.
Mexico, Central Obs'y	23.08	586.2	30.18	766.5	49.6	9.8	69	calm	0	0	.....	0	1	.....	.....	0	0	fine	M. Tena, M. D.
Morelia	24.17	614.0	30.30	769.7	55.6	13.1	70	s.	.....	.....	2	2	2	e.	e.	0	0	½ clouded	The Staff.
Pabellon, Aguascalientes	23.94	608.1	29.97	761.2	50.7	10.4	70	sw.	.....	.....	2	2	0	sw.	.....	0	0	clear	M. V. de Leon, M. E.
Puebla, Catholic Institute	23.40	594.5	30.25	768.4	47.3	8.5	81	calm	0	0	.....	0	0	.....	.....	0	0	clear	Prof. P. Spina.
San Luis Potosi	24.14	613.0	30.05	763.4	55.5	13.1	79	s.	.....	.....	1	1	0	w.	.....	0	0	clear	G. Barroeta, M. D.
Vera Cruz	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Zacatecas	22.48	571.0	30.13	765.0	49.1	9.5	67	sw.	9.6	4.2	.....	0	0	.....	.....	0	0	fine	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.33	770.3	30.33	770.3	51.8	11.0	.....	wsw.	.....	.....	5	.....	.....	.....	.....	0	0	.....	
Groningen	30.16	766.0	30.21	767.4	51.1	10.6	.....	sw.	.....	.....	6	.....	.....	.....	.....	0.039	1.0	.....	
Helder	30.19	766.8	30.19	766.8	48.2	9.0	.....	sw.	.....	.....	4	.....	.....	.....	.....	0	0	.....	
Hellevoetsluis	30.28	769.2	30.28	769.2	51.3	10.7	84	wsw.	.....	.....	3	.....	.....	.....	.....	0	0	.....	
Utrecht	30.24	768.2	30.29	769.4	53.4	11.9	83	sw.	.....	.....	5	.....	8	.....	.....	0	0	very cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.44	747.7	29.50	749.3	45.3	7.4	98	sse.	18	8	.....	.....	10	.....	.....	0.441	11.2	raining	
Brono	29.17	741.0	29.21	742.0	32.0	0.0	52	e	4	2	.....	.....	10	.....	.....	0.161	4.1	.....	
Christiania	29.36	745.8	29.51	749.6	38.8	3.8	82	nnw.	0	0	.....	.....	10	.....	.....	0.161	4.1	.....	
Gjæsvær	29.07	738.4	29.10	739.0	23.7	— 4.6	.....	w.	.....	.....	7–8	.....	9	.....	.....	.....	.....	.....	
Lodingen	29.39	746.4	29.43	747.6	19.9	— 6.7	57	calm	.....	.....	0	.....	5	.....	.....	0	0	.....	
PORTUGUESE.																			
Angra, Azores	.....	.....	.....	.....	61.2	16.2	87	sw.	24.2	10.8	.....	.....	6	.....	.....	0	0	.....	Dr. J. A. Sampaio.
Campo Major	29.37	746.0	30.37	771.3	66.6	19.2	42	ese.	3.1	1.4	.....	.....	1	.....	.....	0	0	.....	Dr. A. M. R. dos Santos.
Funchal, Maderia	30.23	767.8	30.32	770.0	65.5	18.6	57	ese.	1.8	0.8	.....	.....	0	.....	.....	0	0	.....	Capt. D. A. de Cunha.
Lisbon, Observatory.	30.05	763.5	30.42	772.7	61.5	16.4	62	nne.	6.3	2.8	.....	.....	0	.....	.....	0	0	.....	The Staff.
Ponta Delgada, Azores	30.20	767.0	30.27	768.8	65.8	18.8	77	ssw.	8.1	3.6	.....	.....	4	.....	.....	0	0	.....	
Saint Paul de Loando	29.66	753.3	29.86	758.4	79.7	26.5	80	wsw.	1.3	0.6	.....	.....	10	.....	.....	0	0	.....	
Serra da Estrella	25.61	650.0	30.37	771.4	51.8	11.0	48	se.	4.9	2.2	.....	.....	0	.....	.....	0	0	.....	
RUSSIAN.																			
Akmolinski	29.04	737.6	30.21	767.3	12.9	—10.6	93	s.	4	2	.....	1 c	0	.....	.....	0	0	light clouds	Major K. Lasarew.
Archangel	29.18	741.2	29.20	741.7	24.1	— 4.4	93	w.	18	8	.....	.....	10	.....	.....	0.315	8.0	snowing	Capt. Sseliwerstow.
Astrakhan	30.04	763.0	29.96	760.9	42.1	5.6	79	ssw.	11	5	.....	10 cp	0	.....	.....	blank	blank	.....	Capt. Wisganow.
Barnaul	29.78	756.3	30.32	770.1	14.2	— 9.9	79	sw.	2	1	.....	.....	8	.....	.....	0	0	light clouds	Meteorological Obs'y.
Dorpat	29.56	750.9	29.82	757.3	31.6	— 0.2	56	sw.	7	3	.....	.....	10 n	.....	.....	0.213	5.4	.....	Observatory.
Ekaterinburg	28.62	727.0	29.61	752.1	30.7	— 0.7	73	ssw.	4	2	.....	.....	10	.....	.....	0.035	0.9	.....	Meteorological Obs'y.
Kasan	28.93	734.9	29.21	741.8	32.5	0.3	99	nw.	2	1	.....	.....	10	.....	.....	0.150	3.8	light snow	Observatory.
Kertch	30.17	766.4	30.19	766.9	35.8	2.1	80	nw.	9	4	.....	0	7 ks	.....	.....	0	0	.....	Lagorio & Sastyrez.
Kieff	29.49	749.0	30.15	765.9	35.6	2.0	41	nw.	7	3	.....	c;cs	8 ks	.....	.....	0	0	.....	Observatory.
Lugan	29.89	759.1	30.10	764.4	38.1	3.4	37	wnw.	22	10	.....	.....	6	.....	.....	0	0	.....	Meteorological Obs'y
Moscow	29.25	743.0	29.75	755.7	27.1	— 2.7	57	ese.	7.8	3.5	.....	.....	10 s	.....	.....	0	0	.....	Meteorological Obs'y.
Nikolaiev	30.26	768.6	30.33	770.4	39.2	4.0	58	n.	9	4	.....	0	0	.....	.....	0	0	.....	Capt. Kurdakow.
Nikolaievsk, on the Amoor	29.78	756.5	29.87	758.7	5.4	—14.8	86	calm	0	0	.....	.....	10	.....	.....	0	0	.....	Lieut. Iwanow.
Pekin, China	30.16	766.0	30.30	769.6	43.2	6.2	33	calm	0	0	.....	0	0	.....	.....	0	0	.....	Physical Observatory.
St. Petersburg	29.72	754.8	29.73	755.2	25.9	— 3.4	60	w.	16	7	.....	cs	1 ks	.....	.....	0.012	0.3	.....	Central Physical Obs'y.
Tashkend, Laboratory	28.63	727.3	30.23	767.9	50.0	10.0	47	nne.	2	1	.....	.....	0	.....	.....	0	0	.....	Teich, A. M.
Tiflis	28.63	727.1	30.03	762.8	61.0	16.1	28	n.	2	1	.....	.....	10 s	.....	.....	0	0	light clouds	Physical Observatory.
Vladivostok	30.16	766.0	30.22	767.7	23.5	— 4.7	50	n.	2	1	.....	0	0	.....	.....	0	0	.....	
Warsaw	29.66	753.4	30.10	764.5	39.6	4.2	92	wsw.	20	9	.....	.....	10 ks	.....	.....	.....	.....	.....	Astronomical Obs'y.
Wilna	29.50	749.4	29.94	760.5	33.1	0.6	92	sse.	11	5	.....	.....	10	.....	.....	0.059	1.5	heavy cl'ds.	Berg, Assistant.
Yeniseisk	29.80	757.0	30.11	764.7	25.5	— 3.6	78	w.	7	3	.....	.....	10	.....	.....	0.193	4.9	snowing	M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	30.27	768.8	30.37	771.5	58.5	14.7	73	se.	2.2	1.0	.....	.....	0	.....	.....	0	0	clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.35	770.8	30.41	772.3	63.1	17.3	61	nw.	1.6	0.7	.....	0	0	.....	.....	0	0	clear	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.43	695.7	30.43	772.9	55.8	13.2	59	n.	3.1	1.4	.....	0	0	.....	.....	0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	28.17	715.6	30.42	772.7	60.1	15.6	48	calm	2.0	0.9	.....	0	0	.....	.....	0	0	clear	The Staff.
Murcia, Met. Obs'y	30.28	769.1	30.39	771.9	66.7	19.3	61	e.	2.7	1.2	.....	0	1	.....	.....	0	0	almost clear	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.45	748.1	30.35	770.8	66.0	18.9	68	calm	0	0	.....	.....	0	.....	.....	0.004	0.1	clear	R. Gil Vallanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I	30.10	764.4	30.16	766.1	68.7	20.4	82	ese.	3.1	1.4	.....	0	0	.....	.....	0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.84	757.9	29.90	759.4	80.4	26.9	72	ne.	8.8	3.9	.....	0	1 ks	.....	.....	0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.27	768.8	30.37	771.4	67.8	19.9	33	ese.	13.8	6.2	.....	0	0	.....	.....	0	0	.....	Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	30.08	763.9	30.17	766.2	72.7	22.6	97	se.	2.9	1.3	.....	2 c	3 kn	se.	se.	0.362	9.2	cloudy	Manuel Maeu.
Tuguegarao, Philippine Id's	29.80	756.9	29.93	760.2	75.0	23.9	79	nw.	5.1	2.3	.....	.....	9 ks	.....	nnw.	0	0	covered	José L. Yrastorza.
SWEDISH																			
Haparanda	29.47	748.5	29.51	749.5	16.9	— 8.4	88	w.	.....	.....	2	.....	0	.....	.....	0	0	.....	
Umea	29.48	748.7	29.53	750.0	32.5	0.3	83	sw.	.....	.....	4	.....	8	.....	.....	0	0	.....	
Hernosand	29.48	748.7	29.53	750.0	27.1	— 2.7	85	s.	.....	.....	4	.....	10	.....	.....	0	0	.....	
Stockholm	29.38	746.2	29.56	750.7	35.2	1.8	93	wsw.	.....	.....	2	.....	10	.....	.....	0.012	0.3	.....	
Wisby	29.61	752.2	29.67	753.7	38.8	3.8	97	w.	.....	.....	4	.....	10	.....	.....	0.098	2.5	rain & snow	
Sub-series.																			
Upsala	29.43	747.5	29.52	749.7	33.1	0.6	89	sw.	8.1	3.6	.....	.....	10	.....	.....	0.394	10.0	.....	S. G. Fineman.
SWISS.																			
Geneva	28.99	736.4	30.43	772.9	50.7	10.4	51	n.	.....	.....	3	.....	.....	.....	.....	0	0	clear	The Observatory.

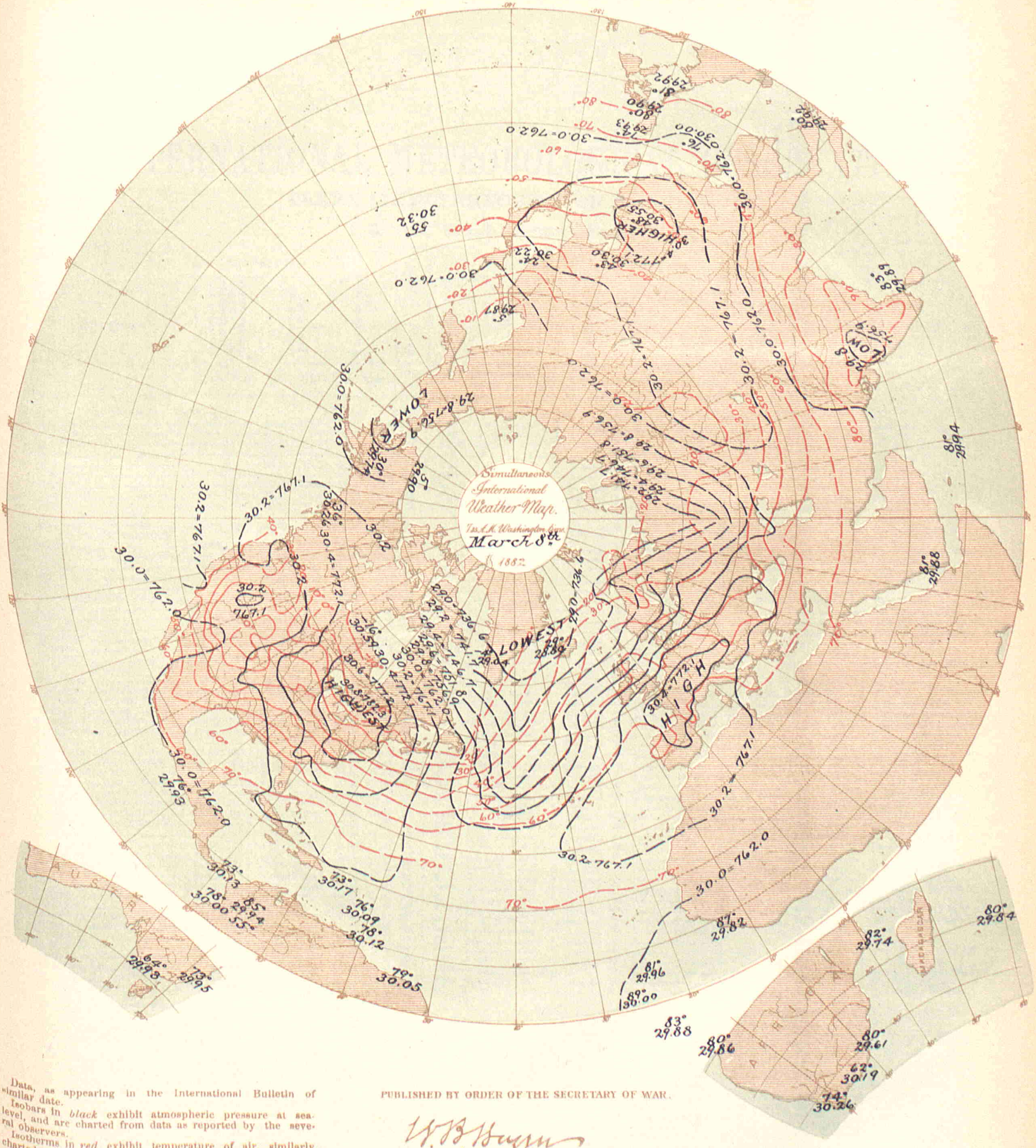
STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
TURKISH.																			
Constantinople	.....	.....	30.24	768.1	48.2	9.0	57	ene.	34	15.0	.....	.....	3	.....	ne.	0	0	....	The Observatory.
Valona	.....	.....	30.12	765.1	57.7	14.3	.....	s.	.....	.....	1	.....	5	....	....	0	0	cloudy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	30.04	763.1	67.8	19.9	72	sw.	.....	.....	3	0	0	....	.....	0	0	....	Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	30.63	778.0	30.72	780.3	28.2	— 2.1	77	nw.	5	2.2	.....	0	0	.....	.....	inap.	inap.	clear	J. O. Barnes.
Alpena, Michigan	29.98	761.5	30.68	779.3	9	—12.8	76	nw.	5	2.2	.....	0	0	.....	.....	0.01	0.3	clear	Jas. J. Fitzgerald.
Atlanta, Georgia	29.15	740.4	30.36	771.1	49.0	9.4	86	e.	18	8.0	.....	.....	10 s	.....	calm	0.01	0.3	cloudy	H. Hall.
Atlantic City, New Jersey	30.64	778.2	30.65	778.5	26.2	— 3.2	64	n.	11	4.9	.....	9 cs	0	.....	.....	0	0	cloudy	Jas. M. Watson.
Augusta, Georgia	30.22	767.6	30.42	772.7	56.8	13.8	69	ne.	4	1.8	.....	.....	10 s	.....	.....	0.04	1.0	cloudy	John Healy.
Baltimore, Maryland	30.67	779.0	30.72	780.3	33	0.6	50	ne.	4	1.8	.....	.....	10 s	.....	w.	0	0	cloudy	Robert Seyboth.
Barnegat, New Jersey	30.65	778.5	30.67	779.0	27.0	— 2.8	77	n.	20	8.9	.....	5 cs	0	.....	.....	0	0	fair	Chas. F. Merritt.
Bismarck, Dakota	28.28	718.3	30.20	767.1	5	—15.0	76	se.	8	3.6	.....	0	0	.....	.....	0	0	clear	Cyrus Cramer.
Boise City, Idaho	27.22	691.4	30.14	765.5	24	— 4.4	96	nw.	2	0.9	.....	.....	10 n	.....	calm	0.10	2.5	light snow	B. E. Light.
Boston, Massachusetts	30.47	773.9	30.63	778.0	22.0	— 5.6	58	nw.	12	5.4	.....	0	0	.....	.....	0	0	clear	O. B. Cole.
Brownsville, Texas	29.99	761.7	30.04	763.0	52	11.1	93	n.	7	3.1	.....	.....	10 s	.....	.....	0	0	cloudy	J. C. Galloway.
Buffalo, New York	29.91	759.7	30.70	779.8	19.9	— 6.7	75	ne.	6	2.7	.....	.....	sk.	.....	.....	inap.	inap.	dense smoke	Wm. Finn.
Burlington, Vermont	30.39	771.9	30.70	779.8	13.5	—10.3	68	ne.	5	2.2	.....	0	0	....	....	inap.	inap.	clear	G. C. Schaeffer.
Cairo, Illinois	29.94	760.5	30.36	771.1	40.8	4.9	75	ne.	7	3.1	.....	.....	10 s	....	....	0	0	threatening	W. H. Ray.
Campo, California	27.54	699.5	30.15	765.8	18	— 7.8	87	e.	2	0.9	.....	0	0	.....	.....	0	0	clear	W. H. Clendenon.
Camp Thomas, Arizona	27.20	690.9	29.98	761.5	28.5	— 1.9	60	s.	.....	.....	1	0	0	.....	.....	0	0	clear	J. T. Fitzgerald.
Cape Henry, Virginia	30.61	777.5	30.63	778.0	41	5.0	65	ne.	28	12.5	.....	.....	10 s	.....	ne.	0	0	cloudy	J. E. Lanouette.
Cape May, New Jersey	30.64	778.2	30.67	779.0	29	— 1.7	67	ne.	10	4.5	.....	0	6 ks	....	sw.	0	0	fair	W. Bolten.
Castroville, Texas	29.27	743.4	30.10	764.5	39	3.9	89	nw.	6	2.7	.....	.....	10 n	.....	.....	0.68	17.3	light rain	T. Jones.
Cedar Keys, Florida	30.23	767.8	30.25	768 3	65	18.3	90	e.	5	2.2	.....	6 ck	0	.....	.....	0	0	fair	F. W. Mixer.
Champaign, Illinois	29.61	752.1	30.47	773.9	29.0	— 1.7	77	ne.	15	6.7	.....	0	6 s	.....	ne.	0	0	fair	L. A. Welsh.
Charleston, S. Carolina	30.29	769.4	30.35	770.9	58	14.4	75	ne.	17	7.6	.....	0	3 s	.....	ne.	0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29 56	750.8	30.44	773.2	45.0	7.2	93	ne.	10	4.5	.....	.....	10 n	.....	ne.	0.39	9.9	light rain	D. O. Donoghue.
Chattanooga, Tennessee	29.51	749 5	30.36	771.1	46.0	7.8	93	ne.	8	3.6	.....	.....	10 n	.....	ne.	0.54	13.7	light rain	B. L. Goulding.
Cheyenne, Wyoming	23.89	666.8	30.07	763.8	6.2	—14 3	79	w.	8	3.6	.....	0	0	.....	.....	0	0	clear	E. McGovern.
Chicago, Illinois	29.78	756.4	30.52	775.2	33·3	0.7	84	se.	9	4.0	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	J. Mitchell.
Chincoteague, Virginia	30.62	777 7	30.64	778.2	33	0.6	68	ne.	24	10.7	.....	5 k;c	1 s	ne;nw.	.....	0	0	fair	F. C. Pratz.
Cincinnati, Ohio	29.83	757.7	30.52	775.2	34.9	1.6	64	ne.	7	3.1	.....	2 c	4 s	n.	.....	0	0	fair	R. B. Watkins.
Cleveland, Ohio	29.88	758.9	30.66	778.7	24.5	— 4.2	80	e.	4	1.8	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	J. B. Newlin.
Coleman City, Texas	28.24	717.3	30.10	764.5	27	— 2.8	100	n.	14	6.3	.....	.....	10 n	.....	n.	0.47	11.9	sleeting	L. Dorman.
Columbus, Ohio	29.67	753.6	30.56	776.2	30	— 1.1	77	ne.	8	3.6	.....	4 ck	0	sw.	.....	0	0	fair	D. Cuthbertson.
Concho, Texas	28.16	715.3	30.13	765.3	26	— 3.3	88	ne.	5	2.2	.....	.....	10 n	.....	.....	0.53	13.5	light rain	W. W. McConihe.
Davenport, Iowa	29.77	756.1	30.46	773.7	34	1.1	71	e.	8	3.6	.....	.....	10 s	.....	e.	inap.	inap.	cloudy	R. R. Martin.
Dayton, Washington T'y	28.33	719.6	30.14	765.5	31.8	— 0.1	93	sw.	4	1.8	.....	.....	10 n	... ...	.....	0.37	9.4	light snow	H. Clifford.
Deadwood, Dakota	25 20	640.1	30.04	763.0	12	—11.1	83	sw.	2	0.9	.....	0	0	.....	.....	0	0	clear	G. W. Scott.
Decatur, Texas	.....	.....	.....	.....	30	— 1.1	77	nw.	7	3.1	.....	.....	10 s	.....	nw.	0	0	cloudy	D. J. Carr.
Delaware Breakwater, Del.	30.64	778.2	30.66	778.7	31	— 0.6	68	n.	24	10.7	.....	9 cs;k	0	w;n.	.....	0	0	cloudy	A. Schneider.
Denison, Texas	29.30	744.2	30.13	765.3	35.0	— 1.7	92	ne.	8	3.6	.....	.....	10 n	... .	.....	0.02	0.5	light rain	J. McGlone.
Denver, Colorado	24.66	626.4	30.10	764.5	13.3	—10.4	61	s.	3	1.3	.....	0	0	.....	.....	0	0	clear	F. M. Neal.
Des Moines, Iowa	29.49	749 0	30.45	773.4	28	— 2.2	77	se.	6	2.7	.....	.....	10 n	.....	se.	0'01	0.3	light snow	F. W. Conrad.
Detroit, Michigan	29.92	760.0	30.67	779 0	31.8	— 0.1	78	se.	11	4.9	.....	2 ck	3 s	w.	calm	0.04	1.0	fair	C. F. R. Wappenhans.
Dodge City, Kansas	27.56	700.0	30.30	769.6	13.5	—10.3	100	e.	5	2.2	.....	.....	10 n	.....	.....	0.05	1.3	light snow	E. A. Thomas.
Dubuque, Iowa	29.73	755.1	30.48	774.2	26.2	— 3.2	88	e.	5	2.2	.....	.....	10 n	.....	e.	0.01	0.3	light snow	J. Harvey Smith.
Duluth, Minnesota	29.80	756.9	30.54	775.7	12	—11.1	61	calm	0	0	.....	.....	10 s	.....	calm	0.01	0.3	cloudy	N. B. Conger.
Eagle Pass, Texas	29.34	745.2	30.16	766.1	37.1	2.8	89	nw.	22	9.8	.....	.....	10 s	.....	.....	0.11	2.8	cloudy	F. Belford.
Eagle Rock, Idaho	25.33	643.4	30.20	767.1	12	—11.1	70	n.	3	1.3	.....	.....	10 s	.....	.....	0	0	cloudy	J. M. Clifford.
Eastport, Maine	30.47	773 9	30.54	775.7	13.5	—10.3	71	nw.	16	7.2	.....	0	0	.....	.....	0.03	0.8	clear	J. H. Melton.
El Paso, Texas	26.20	665.5	30.00	762.0	27	— 2.8	77	ne.	17	7.6	.....	.....	10 s	.....	se.	0.02	0.5	cloudy	J. F. Marshall.
Erie, Pennsylvania	29.91	759.7	30.68	779.3	24	— 4.4	73	e.	5	2.2	.....	0	0	.....	.....	0.01	0.3	clear	R. H. Paxton.
Escanaba, Michigan	29.93	760.2	30.64	778.2	12	—11.1	91	n.	9	4.0	.....	.....	10 n	.....	n.	0.01	0.3	light snow	C. Dill.
Florence, Arizona	28.51	724.1	30.08	764.0	28.3	— 2.1	79	nw.	1	0.4	.....	0	2 k	.....	nw.	0	0	clear	R. R. Herman.
Fort Apache, Arizona	24.98	634.5	30.00	762.0	16	— 8.9	58	ne.	2	0.9	.....	0	0	.....	.....	0	0	clear	W. C. Barnes.
Fort Assinnaboine, Montana	27.07	687.6	30.08	764.0	25	— 3.9	64	w.	7	3.1	.....	.....	10 n	.....	.....	inap.	inap.	light snow	B. O. Lenoir.
Fort Bennett, Dakota	28.53	724.6	30.23	767.8	12	—11.1	83	se.	6	2.7	.....	0	0	.....	.....	0	0	clear	T. Gibson.
Fort Benton, Montana	27.09	688.1	30.07	763.8	28	— 2.2	77	w.	10	4.5	.....	.....	10 s	.....	calm	0	0	cloudy	S. Wheaton.
Fort Buford, Dakota	27.99	710.9	30.13	765.3	2	—16.7	75	ne.	10	4.5	.....	7 ck	0	ne.	.....	0	0	fair	A. H. Bell.
Fort Custer, Montana	26.74	679.2	30.07	763.8	22	— 5.6	48	calm	0	0	.....	.....	10 s	.....	calm	0	0	cloudy	V. Verge.
Fort Davis, Texas	25.03	635.8	29.91	759.7	19	— 7.2	73	ne.	4	1.8	.....	.....	10 s	.....	ne.	0.02	0.5	cloudy	J. Williams.
Fort Elliott, Texas	27.33	694.2	30.16	766.1	18	— 7.8	64	ne.	12	5.4	.....	.....	10 n	.....	ne.	0.03	0.8	light snow	W. J. Cundall.
Fort Gibson, Indian T'y	29.61	752.1	30.20	767.1	35.3	1.8	89	ne.	4	1.8	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	J. B. Campbell.
Fort Grant, Arizona	25.24	641.1	30.08	764.0	31	— 0.6	74	se.	2	0.9	.....	0	0	....	....	0	0	clear	T. J. Macgowan.
Fort Griffin, Texas	28.88	733.5	30.23	767.8	27	— 2.8	88	n.	8	3.6	.....	.....	10 s	....	n.	0.04	1.0	cloudy	G. H. Hayne.
Fort Keogh, Montana	27.41	696.2	30.06	763.5	18	— 7.8	70	se.	2	0.9	.....	6 c	0	.....	.....	0	0	fair	W. B. Stockman.
Fort Macon, North Carolina	30.48	774.2	30.49	774.4	46	7.8	100	ne.	26	11.6	.....	.....	10 n	.....	ne.	0.22	5.6	light rain	L. Leonardy.
Fort McKavett, Texas	27.83	706.9	30.15	765.8	29.9	— 1.2	88	n.	4	1.8	.....	.....	10 s	.....	.....	0.28	7.1	cloudy	J. E. Thatcher.
Fort Missoula, Montana	26.69	677.9	30.07	763.8	23	— 5.0	88	nw.	1	0.4	.....	.....	10 n	.....	.....	0.03	0.8	light snow	J. H. Jones.
Fort St. Michaels, Alaska	29.71	754.6	29.74	755.4	30	— 1.1	89	se.	25	11.2	.....	0	8 s	.....	.....	inap.	inap.	fair	A. P. Leavitt.
Fort Shaw, Montana	26.26	667.0	30.06	763.5	27	— 2.8	67	w.	18	8.0	.....	.....	10 s	....	....	0	0	cloudy	A. L. Mathews.
Fort Sill, Indian Territory	28.98	736.1	30.26	768.6	24.5	— 4.2	94	n.	10	4.5	.....	.....	10 n	.....	.....	0.10	2.5	light snow	T. Cleary.
Fort Stevenson, Dakota	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. Burrows.
Fort Verde, Arizona	.....	.....	.....	.....	27.1	— 2.7	67	nw.	.....	.....	1	0	c	.....	.....	0	0	clear	D. Brooks.
Fort Washakie, Wyoming	24.32	617.7	.....	.....	11.0	—11.7	87	calm	0	0	.....	9 k	0	.....	.....	0	0	cloudy	T. M. Ambler.
Fredericksburg, Texas	28.32	719.3	30.08	764.0	33	0.6	100	ne.	9	4.0	.....	.....	10 n	.....	.....	0.45	11.4	light rain	H. S. Miles.
Galveston, Texas	30.01	762.2	30.05	763.3	56	13.3	100	se.	14	6.3	.....	.....	10 ks	.....	s.	0.15	3.8	cloudy	E. O'C. MacInerney.
Grand Haven, Michigan	29.91	759.7	30.61	777.5	22.0	— 5.6	88	e.	6	2.7	.....	0	8 s	.....	se.	0.02	0.5	cloudy	W. A. Reid.
Hatteras, North Carolina	30.49	774.4	30.51	774.9	44	6.7	93	ne.	32	14.3	.....	.....	10 n	... .	.....	0.35	8.9	heavy rain	R. M. Crawford.
Helena, Montana	25.71	653.0	30.08	764.0	22	— 5.6	61	sw.	1	0.4	.....	.....	10 s	.....	.....	0	0	cloudy	N. C. Smith.
Henrietta, Texas	29.17	740.9	30.21	767.3	27	— 2.8	100	n.	11	4.9	.....	.....	10 n	.....	ne.	0.30	7.6	heavy sleet	J. W. Byram.
Huron, Dakota	28 88	733.5	30.36	771.1	19.2	— 7.1	61	se.	14	6.3	.....	0	7 s	.....	sw.	inap.	inap.	fair	S. W. Glenn.
Indianapolis, Indiana	29.64	752.8	30.48	774.2	31	— 0.6	78	e.	6	2.7	.....	7 ck	0	calm	.....	0	0	fair	O. Schutze
Indianola, Texas	30.00	762.0	30.03	762.7	51.2	10.7	93	n.	19	8.5	.....	.....	10 ks	.....	n.	0.48	12.2	cloudy	I. A. Reed.
Jacksboro, Texas	28.95	735.3	30.16	766.1	28	— 2.2	100	n.	.....	.....	1	.....	10 n	.....	n.	0.19	4.8	light sleet	J. P. Sherry.
Jacksonville, Florida	30.26	768.6	30.31	769.9	63	17.2	90	n.	8	3.6	.....	.....	10 s	.....	.....	0	0	cloudy	J. W. Smith.
Keokuk, Iowa	29.74	755.4	30.44	773.2	29.5	— 1.4	86	ne.	8	3.6	.....	.....	10 s	.....	ne.	0.08	2.0	cloudy	F. Z. Gosewisch
Key West, Florida	30.17	766.3	30.19	766.8	73.0	22.8	76	e.	11	4.9	.....	0	4 k	.....	e.	0	0	fair	L. M. Melbourne.
Kittyhawk, North Carolina	30.56	776.2	30.58	776.7	43	6.1	71	ne.	29	13.0	.....	.....	10ks;8	.....	e.	0.03	0.8	cloudy	E. A. Beals.
Knoxville, Tennessee	29.32	744.7	30.38	771.6	45	7.2	91	ne.	5	2.2	.....	.....	10 n	.....	sw.	0.03	0.8	light rain	J. A. Cody.
La Crosse, Wisconsin	29.70	754.4	30.52	775.2	30.5	— 0.8	57	se.	1	0.4	.....	.....	10 s	....	.....	0	0	cloudy	S. C. Emery.
La Mesilla, New Mexico	26.02	660.9	29.97	761.2	31.3	— 0.4	61	nw.	2	0.9	.....	.....	10 s	.....	.....	0	0	cloudy	N. D. Lane.
Leavenworth, Kansas	29.44	747.8	30.38	771.6	28	— 2.2	77	n.	4	1.8	.....	.....	10 s	....	....	0.16	4.1	cloudy	A. W. Browne.
Lewiston, Idaho	29.28	743.7	30.14	765.5	33.4	0.8	94	ne.	1	0.4	.....	.....	10 n	.....	calm	0.05	1.3	light snow	W. Blake.
Little Rock, Arkansas	29.88	758.9	30.21	767.3	43	6.1	74	ne.	9	4.0	.....	.....	10 s	....	....	0.02	0.5	cloudy	M. F. Burrows.
Los Angeles, California	29.82	757.4	30.22	767.6	45.1	7.3	53	ne.	5	2.2	.....	0	0	.....	.....	0	0	clear	E. F. Kubel.
Louisville, Kentucky	29.81	757.2	30.40	772.1	35	1.7	69	e.	10	4.5	.....	.....	10 s	.....	.....	0	0	cloudy	H. C. Smith.
Lynchburg, Virginia	29.90	759.4	30.62	777.7	37.8	3.2	45	ne.	7	3.1	.....	.....	10 s	.....	.....	0	0	cloudy	T. H. Breen.
Madison, Wisconsin	29.45	748.0	30.52	775.2	25	— 3.9	73	e.	8	3.6	.....	.....	10 s	.....	e.	inap.	inap.	cloudy	C. A. Shaw.
Marquette, Michigan	29.87	758.7	30.64	778.2	7	—13.9	52	sw.	3	1.3	.....	0	0	.....	.....	0	0	clear	I. Gilligan.
Mason, Texas	28.43	722.1	30.12	765.0	31	— 0.6	81	n.	.....	.....	2	.....	10 s	.....	n.	0.88	22.4	cloudy	A. M. Wilson.
Memphis, Tennessee	29.88	758.9	30.23	767.8	45	7.2	76	ne.	4	1.8	.....	.....	10 s	.....	.....	0.07	1.8	cloudy	D. T. Flannery.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mili.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–01	0–10	0–10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Milwaukee, Wisconsin	29.75	755.6	30.54	775.7	29	— 1.7	88	e.	15	6.7			10 s		se.	0.01	0.3	cloudy	W. Line.
Mobile, Alabama	30.11	764.8	30.15	765.8	65	18.3	93	calm	0	0		0	5 ks		w.	0.08	2.c	fair	J. D. Paxton.
Montgomery, Alabama	30.02	762.5	30.26	768.6	56	13.3	72	e.	4	1.8			10 n			0.05	1.3	light rain	J. B. McLaughlin.
Moorhead, Minnesota	29.37	746.0	30.45	773.4	12.1	—11.1	80	n.	12	5.4			10 s			0	0	cloudy	H. Bessant.
Morgantown, W. Virginia	29.50	749.3	30.50	776.2	29.0	— 1.7	77	ne.	4	1.8		5 cs	0	e.		0	0	fair	J. Sprigg, jr.
Mt. Washington, N. H.	23.83	605.3	30.35	770.9	— 2.0	—18.9	72	nw.	50	22.3		0	0			0.02	0.5	clear	J. G. Linsley.
Nashville, Tennessee	29.77	756.1	30.33	770.4	45.2	7.3	72	e.	4	1.8			10 n		se.	0.02	0.5	light rain	L. A. Jesunofsky.
New Haven, Connecticut	30.54	775.7	30.66	778.7	22	— 5.6	66	n.	9	4.0		0	0			0	0	clear	J. H. Sherman.
New London, Connecticut	30.62	777.7	30.67	779.0	26	— 3.3	51	n.	8	3.6		0	0			0	0	clear	J. G. Lynch.
New Orleans, Louisiana	30.03	762.7	30.09	764.3	68.0	20.0	90	s.	10	4.5		0	1s;sk		s.	0	0	clear	A. J. Armstrong.
Newport, Rhode Island	30.59	777.0	30.64	778.2	25.0	— 3.9	70	n.	10	4.5		0	0			0	0	clear	W. McGillivray.
New River, N. Carolina																			C. C. Corbin.
New Shoreham, Rhode I'd.	30.60	777.2	30.63	778.0	25.0	— 3.9	64	n.	22	9.8		0	0			0	0	clear	W. Davis.
New York, New York	30.50	774.7	30.68	779.3	26	— 3.3	76	n.	4	1.8		0	0			0	0	clear	E. B. Garriott.
Norfolk, Virginia	30.58	776.7	30.61	777.5	41	5.0	73	ne.	11	4.9			10 ks		ne.	0	0	threatening	J. T. Eiker.
North Platte, Nebraska	27.22	691.4	30.28	769.1	22.6	— 5.2	78	e.	12	5.4		0	0			0	0	clear	E. F. Brady.
Olympia, Washington T'y	30.16	766.1	30.20	767.1	36.0	2.2	84	s.	3	1.3		9 cs	0	calm		0.05	1.3	cloudy	J. Dascomb.
Omaha, Nebraska	29.20	741.7	30.45	773.4	26.0	— 3.3	70	se.	6	2.7		0	0			0	0	clear	A. Pollak.
Ooglaamie, Pt. Barrow, Alas.	29.88	758.9	29.90	759.4	4.8	—15.1	88	ese.	19	8.5			10 s			0.08	2.0	cloudy	P. H. Ray.
Oswego, New York	30.37	771.4	30.71	780.0	23.7	— 4.6	68	se.	4	1.8		0	0			inap.	inap.	clear	S. W. Beall.
Palestine, Texas																			L. M. Pindell.
Pensacola, Florida	30.15	765.8	30.18	766.6	68.4	20.2	95	se.	10	4.5		0	7 s		s.	inap.	inap.	fair	M. McGauran,
Philadelphia, Pa	30.60	777.2	30.70	779.8	28	— 2.2	64	ne.	11	4.9		4 cs	0	nw.		0	0	fair	T. F. Townsend.
Pike's Peak, Colorado	17.34	440.4	29.92	760.0	— 9.5	—23.1	86	sw.	36	16.1		0	2 s			0	0	clear	L. M. Dey.
Pioche, Nevada	24.04	610 6	30.18	766.6	13	—10.6	53	s.	1	0.4		3 c	0	calm		0	0	clear	C. K. Kitchel.
Pittsburg, Pennsylvania	29.79	756.7	30.64	778.2	28.0	— 2.2	70	se.	7	3.1		4 k	0	e.		0	0	fair	J. H. Bryce.
Port Eads, Louisiana	30.12	765.0	30.12	765.0	66.2	19.0	97	se.	12	5.4		0	hz.			0.03	0.8	clear	H. G. Christian.
Port Huron, Michigan	29.95	760.7	30.67	779.0	18.5	— 7.5	81	e.	4	1.8		3 ck	0	w.		0.01	0.3	clear	W. O. Bailey.
Portland, Maine	30.54	775.7	30.59	777.0	24.0	— 4.4	51	n	8	3.6		0	0			0	0	clear	D. C. Murphy.
Portland, Oregon	30.18	766.6	30.25	768.3	34.0	1.1	89	s.	5	2.2		0	fg.		s.	0.30	7.6	light fog	M. L. Hearne.
Portsmouth, N. Carolina					46	7.8	83	ne.	36	16.1			10 n		ne.	0.08	2.0	light rain	F. P. Chaffee.
Prescott, Arizona	24.69	627.1	30.03	762.7	16	— 8.9	70	s.	1	0.4		0	0			0	0	clear	J. Mc N. Wright.
Provincetown, Mass.	30.56	776.2	30.59	777.0	27	— 2.8	77	n.	7	3.1		0	0			0	0	clear	P. T. Jenkins.
Punta Rassa, Florida	30.19	766.8	30.20	767.1	65	18.3	87	e.	8	3.6		0	0			0	0	clear	W. J. Evans.
Red Bluff, California	29.74	755.4	30.12	765.0	44.1	6.7	80	calm	0	0		2 c	0	nw.		0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.85	758.2	30.09	764.3	46	7.8	93	nw.	7	3.1			10 s		calm	0	0	cloudy	W. H. Taylor.
Rochester, New York	30.00	762.0	30.70	779.8	23	— 5.0	88	e.	1	0.4		0	sk.			0.01	0.3	dense smoke	A. T. Sherwood.
Roseburg, Oregon	29.75	755.6	30.31	769.9	34.6	1.4	90	sw.	1	0.4			10 ks		sw.	0.10	2.5	threatening	J. J. Nanry.
Sacramento, California	30.05	763.3	30.13	765.3	44.1	6.7	51	se.	13	5.8			10 s			0	0	cloudy	J. A. Barwick.
St. Louis, Missouri	29.76	755.9	30.39	771.0	33.0	0.6	83	ne.	12	5.4			10 s			0	0	cloudy	J. H. Webber.
St. Paul, Minnesota	29.55	750.6	30.47	773.9	23.5	— 4.7	86	e.	6	2.7			10 s			0.02	0.5	cloudy	O. S. M. Cone.
St. Vincent, Minnesota	29.44	747.8	30.38	771.6	10	—12.2	100	s.	9	4.0			10 s			0	0	threatening	G. Kingsbury.
Salt Lake City, Utah	25.70	652.8	30.22	767.6	19	— 7.2	58	n.	1	0.4		0	0			0	0	clear	J. Craig.
San Antonio, Texas	29.40	746.7	30.11	764.8	38.6	3.7	89	nw.	4	1.8			10 n		nw.	0.70	17.8	light rain	E. Lane.
San Diego, California	30.12	765.0	30.19	766.8	40.2	4.6	57	ne.	7	3.1		0	0			0	0	clear	A. C. Dobbins.
Sandusky, Ohio	29.90	759.4	30.62	777.7	28.2	— 2.1	77	se.	10	4.5			10 s			0	0	cloudy	M. H. Perry.
Sandy Hook, New Jersey	30.64	778.2	30.68	779.3	27.0	— 2.8	77	ne.	19	8.5		0	0			0	0	clear	B. A. Blundon.
San Francisco, California	30.07	763.8	30.14	765.5	48	8.9	93	w.	10	4.5			8 s		sw.	0	0	cloudy	N. Gorom.
Santa Fé, New Mexico	23.04	585.2	30.02	762.5	9	—12.8	83	n.	10	4.5		0	0			inap.	inap.	clear	H. N. Jones.
Savannah, Georgia	30.26	768.6	30.35	770.9	59.5	15.3	71	e.	10	4.5			10 ks		e.	0	0	cloudy	H. M. Ford.
Shreveport, Louisiana	29.88	758.9	30.12	765.0	46	7.8	100	ne.	9	4.0			10 n			0.91	23.1	light rain	E. N. Meekins.
Silver City, New Mexico	24.10	612.1	29.88	758.9	21	— 6.1	64	nw.	1	0.4		9 cs	0	calm		0.03	0.8	cloudy	J. B. Wallace.
Sitka, Alaska	30.19	766.8	30.26	768.6	35.6	2.0	75	e.	4	1.8		0	0			0	0	clear	J. J. McLean.
Smithville, North Carolina	30.38	771.6	30.42	772.7	52	11.1	86	ne.	20	8.9			10 s		ne.	0.13	3.3	cloudy	J. C. Rickli.
Spokane Falls, Wash. Ter.	28.01	711.4	30.14	765.5	31	— 0.6	100	e.	2	0.9			10 n			0.11	2.8	light snow	D. Moore.
Springfield, Illinois	29.72	754.9	30.44	773.2	33	0.6	68	e.	12	5.4			10 s		sw.	0	0	cloudy	T. B. Jennings.
Springfield, Massachusetts	30.53	775.4	30.67	779.0	25.6	— 3.6	80	n.	5	2.2		0	0			inap.	inap.	clear	T. S. Outram.
Springfield, Mo.	28.79	731.3	30.35	770.9	33	0.6	88	se.	6	2.7			10 n			0.01	0.3	light rain	J. B. Marbury.
Stockton, Texas	27.03	686.5	30.11	764.8	26.0	— 3.3	100	calm	0	0			10 s			0.05	1.3	cloudy	J. O'Dowd.
Thatcher's Island, Mass.	30.52	775.2	30.58	776.7	25.5	— 3.6	74	nw.	18	8.0		0	0			0	0	clear	G. Liebmann.
Toledo, Ohio	29.89	759.2	30.62	777.7	27	— 2.8	70	ne.	11	4.9			10 s		e.	0	0	cloudy	A. Buell.
Tucson, Arizona	27.54	699.5	30.00	762.0	32	0.0	71	s.	2	0.9		0	0			0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.82	757.4	30.20	767.1	34.0	1.1	85	w.	7	3.1		4 cs	0	w.		0.07	1.8	fair	R. P. Sibley.
Uvalde, Texas																			E. C. Imlay.
Vicksburg, Mississippi	29.88	758.9	30.14	765.5	52	11.1	86	ne.	5	2.2			10 s		ne.	0.63	16.0	cloudy	T. J. Kenan.
Visalia, California	29.78	756.4	30.16	766.1	38.5	3.6	67	se.	4	1.8		0	0			0	0	clear	J. T. Cochran.
Washington, D. C.	30.56	776.2	30.68	779.3	31	— 0.6	68	ne.	7	3.1		9 cs	0	w.		0	0	cloudy	B. M. Purssell.
West Los Animas, Colorado	26.10	662.9	30.18	766.6	6	—14.4	87	sw.	6	2.7		0	0			0.01	0.3	clear	J. Grover.
Wickenburg, Arizona					32.0	0.0	50	calm			0	0	0			0	0	clear	H. A. Kremp.
Williamsport, Pa.	30.06	763.5	30.69	779.5	26.2	— 3.2	70	calm	0	0		0	0			0	0	clear	B. F. Hough.
Wilmington, N. Carolina	30.39	771.9	30.45	773.4	50	10.0	77	e.	10	4.5			10 s		calm	0.08	2.0	cloudy	S. A. Haney.
Winnemucca, Nevada	25.62	650.7	30.12	765.0	27	— 2.8	77	sw.	10	4.5			10 n		sw.	0.01	0.3	light snow	J. R. Williams.
Yankton, Dakota	29.09	738.9	30.48	774.2	23	— 5.0	88	se.	7	3.1			10 s			0	0	cloudy	J. H. Atfield.
Yuma, Arizona	29.98	761.5	30.13	765.3	43.9	6.6	26	n.	9	4.0		0	0			0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.02	559.3			55.0	12.8	77	calm	0	0		2 k	3 s		ne.	0	0	fair	Joaquin Gomez.
Bridgetown, Barbados, W.I.	30.11	764.8	30.12	765.0	78	25.6	90	e.				5 k	5 ks	e.	e.	0.30	7.6	cloudy	J. A. Racker.
Buenaventura, U. S. C.	29.98	761.5	30.00	762.0	78	25.6	90	s.	4	1.8			10 ks			0.30	7.6	cloudy	J. I. Plume.
Guadeloupe, W. I.	29.97	761 2	29.99	761.7	76	24.4	87	e.				2 k	2 ks			0.236	6.0		B. Bigar.
Havana, Cuba, W. I.	30.15	765.8	30.20	767.1	73	22.8	82	se.	1.2	0.5		0	0			0	0	clear	A. Van Caneghem.
Kingston, Jamaica, W. I.	30.09	764.3	30.10	764.5	74.0	23.3	81	n.	1	0.4		0	5 s		e.	0	0		Robert Johnston.
Navassa	30.10	764.5	30.18	766.6	75.5	24.2	78	e.	7	3.1		5 ck	2 s	se.	e.	0.04	1.0		F. M. Everett.
Paramaribo, S. A.	30.05	763.3	30.05	763.3	79	26.1	82	e.			3	4 c	3 k	e.		0.140	3.6		Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.49	749.0	29.94	760.5	85	29.4	79	calm			0		10 s		calm	inap.	inap.	cloudy	Miss Flora A. Nichols.
Rivas							96	ne.			1	0	2 ks		ne.	0	0	clear	Robert Mason.
Santiago de Cuba, W. I.	30.08	764.0	30.11	764.8	72	22.2	81	ne.	3.6	1.6		0	1 s		n.	0.74	18.8	fair	
York Factory, B. A.	30.53	775.4	30.59	777.0	—16.0	—26.7	70	nw.	18	8.0		4 k	6 s	nw.	nw			snowing	W. Wood.

STATIONS AND VESSELS.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
BRITISH NAVAL.																		
H. M. S. Agincourt, N. 37° 23′, W. 0° 24′	30.46	773.7	58.5	14.7	90	ene.			2		0							blue sky.
Albatross, Canton, China	30.19	766.8	61	16.1		nw.			1		10							overcast.
H. M. S. Alert, Mahi, Seychelles Islands	29.84	757.9	84	28.9	75	ne.			2		9							showery.
H. M. S. Alexandra, Malta, Mediterranean	30.09	764.3	62	16.7	69	nne.			3		2	nne.						d. clouds.
H. M. S. Antelope, N. 36° 16′, E. 21° 12′	29.94	760.5	59	15.0		ene.			4–6		10	ene.				2	ene.	showery.
H. M. S. Bacchante, Alexandria, Egypt	30.01	762.2	64	17.8	89	wnw.			1–2		2	wnw.						d. clouds.
H. M. S. Boadicea, S. 33° 05′, E. 18° 00′	30.17	766.3	63	17.2	57	sse.			5–6		1	se.						squally.
H. M. S. Champion, S. 32° 40′, W. 85° 55′	29.30	744.2	67	19.4	100	ese.			5		9					4	ese.	d. clouds.
H. M. S. Cleopatra, Suez Canal, Egypt	30.01	762.2	72	22.2	54	nnw.			1		1	sse.						blue sky.
H. M. S. Comus, Singapore, Malay Pen	29.92	760.0	80	26.7	86	nne.			1		2							d. clouds.
H. M. S. Diamond, S. 38° 49′, E. 79° 23′	30.03	762.7	65	18.3	89	nnw.			2–3		2	wnw.				1	w.	d. clouds.
H. M. S. Dido, N. 13° 05′, W. 59° 36′	30.13	765.3	77	25.0		ene.			2–4		4	ne.						squally.
H. M. Dock-Yard, Bermuda, W. I.	30.30	769.6	62	16.7	71	wnw.			2–3		6	wnw.						d. clouds.
H. M. S. Dwarf, S. 34° 35′, W. 58° 19′	30.00	762.0	71	21.7	92	nnw.			2–3		0					2–3	n.	blue sky.
H. M. S. Eclipse, S. 15° 01′, E. 40° 45′	29.74	755.4	82	27.8		ese.			1–2		3							d. clouds.
H. M. S. Espiegle, S. 39° 46′, E. 54° 07′	29.91	759.7	67	19.4	90	wnw.			3		1					1	w.	blue sky.
H. M. S. Euryalus, L. Tinrsah, Egypt	29.95	760.7	71	21.7		calm			0		1	calm						blue sky.
H. M. S. Fawn, Zebayer I'd., Red Sea	29.88	758.9	81	27.2	62	s.			6–7		0					4	s.	misty.
H. M. S. Flying Fish, N. 34° 41′, E. 135° 12′	30.21	767.3	45	7.2	76	calm			0		2							d. clouds.
H. M. S. Gannet, S. 34° 20′, W. 92° 15′	30.19	766.8	69	20.6	75	e.			4		7					2	ene.	d. clouds.
H. M. S. Garnet, Keppel Sd., Falkland Ids	29.41	747.0	49	9.4	71	sw.			7		6	sw.						squally.
H. M. S. Inconstant, S. 7° 00′, E. 105° 00′	29.85	758.2	81	27.2	87	wnw.			3–4		3	wnw.				3	w.	squally.
H. M. S. Iron Duke, N. 22° 16′, E. 114° 10′	30.18	766.6	60	15.6	82	calm			0		9							d. clouds.
H. M. S. Liffey, Coquimbo, Chili	30.12	765.0	62	16.7		n.			2		8							overcast.
H. M. S. Magpie, N. 24° 32′, E. 118° 31′	30.18	766.6	52.9	11.6	66	ne.			6–7		10					3	ne.	misty.
H. M. S. Malabar, N. 37° 11′, E. 5° 21′	30.33	770.4	56	13.3	74	nnw.			2		3	n.				2	nne.	d. clouds.
H. M. S. Rambler, S. 0 36′, E. 8° 50′	29.88	758.9	83	28.3		ssw.			3		5	ssw.						d. clouds.
H. M. S. Ready, N. 26° 08′, W. 56° 17′	30.06	763.5	75.1	23.9		e.			1		1							blue sky.
H. M. S. Rocket, Vancouver Id	30.19	766.8	36	2.2	?	calm			0		2							d. clouds.
H. M. S. Sea Gull, S. 4° 55′, E. 40° 00′	29.20	741.7	83	28.3	87	nne.			4		5	ne.				6	ene.	d. clouds.
H. M. S. Thalia, N. 4° 08′, W. 25° 14′	29.96	761.0	80.5	26.9		n.			2		7	ene.				1	nne.	d. clouds.
H. M. S. Triumph, S. 34° 11′, W. 92° 11′	30.23	767.8	70	21.1	66	ene.			4–5		4	sse.				8	wsw.	d. clouds.
H. M. S. Tyne, N. 14° 44′, E. 112° 45′	30.00	762.0	76	24.4	95	nne.			3–4		9					4	nne.	showery.
H. M. S. Woodlark, Bombay, India	29.83	757.7	81.5	27.5	67	wnw.			2–3		0							misty.
PORTUGUESE NAVAL.																		
Quanza, Santago	30.00	762.0	81.5	27.5	53	ne.			2		0					2	ne.	blue sky.
UNITED STATES NAVAL.																		
Navy Yard, Pensacola, Fla	30.13	765.3	69	20.6	90	e.	11	4.9			8		se.	0.07	1.8			fair.
Navy Yard, Portsmouth, N. H	30.58	770.7	22	— 5.6	?	nw.	2	0.9			0			0	0			clear.
Naval Hospital, Yokohama, Japan	30.02	762.5	44.5	6.9	84	calm			0		5		w.	0	0			clearing
Adams, Callao, Peru	29.66	753.4	65	18.3	100	sse.			2		10					gr'd		foggy.
Alaska, Valparaiso, Chili	29.95	760.7	60	15.6	82	s.			1		5		s.	0	0	sm'h		fair.
Alert, N. 8° 37′, E. 119° 43′*	29.77	756.1	81	27.2	83	ene.			3		8		calm	0	0	sm'h		clear.
Alliance, N. 14° 17′, W. 61° 46′	30.02	762.5	77	25.0	77	ene.			4		2			0	0	sm'h		clear.
Ashuelot, Tientsin, China	30.35	770.9	34	1.1	7	sse.			3		0							clear.
Brooklyn, Port Stanley, Falkland Island	29.30	744.2	49	9.4	85	wsw.	17	7.6			8		w.	0.01	0.3	sm'h		squally.
Colorado, New York, N. Y	30.66	778.7	27	— 2.8		n.	8	3.6			0			0	0			clear.
Enterprise, N. 26° 33′, W. 68° 35′*	30.29	769.4	70	21.1	80	e.			4		8					sm'h		cloudy.
Essex, Porto Grande, Cape Verd Islands	30.08	764.0	70	21.1	75	ene.			3		2		ne.			sm'h	ne	clear.
Franklin, Norfolk, Va	30.62	777.7	43	6.1	75	ne.	8.4	3.8			10		ne.	0	0			cloudy.
Galena, Villafranca, France	30.34	770.6	65	18.3	?	sse.			1		0					sm'h		clear.
Independence, Navy Yard, Mare Island, Cal	29.99	761.7	50	10.0	86	sw.			2		10			0	0			cloudy.
Kearsarge, New Orleans, La	30.07	763.8	69	20.6	95	se.			3		10		sse.					cloudy.
Lackawanna, Valparaiso, Chili†	30.02	762.5	59	15.0	94	ne.			0–1		10							misty.
Lancaster, Dardanell Strait	30.13	765.3	52	11.1	86	ne.			6–7		8		calm	0	0	mod.	ne.	fair.
Marion, S. 33° 54′, E. 18° 24′*	29.91	759.7	65	18.3	63	se.			0		2		se.	0	0	sm'h		squally.
Michigan, Erie, Pa	29.92	760.0	24	— 4.4	100	se.			3		0							clear.
Minnesota, Newport, R. I	30.61	777.5	26	— 3.3	75	n.	16	7.2			0							clear.
Monocacy, Yokohama, Japan	30.15	765.8	46	7.8	92	calm			0		10		calm					cloudy.
New Hampshire, Newport, R. I	30.58	776.7	28	— 2.2	77	n.			4		0					mod.		clear.
Nipsic, Libson, Portugal	30.39	771.9	64	17.8	73	ene.			3		0					sm'h		clear.
Onward, Callao, Peru†	30.04	763.0	63	17.2	?	sse.			3		10		nnw.			long	w.	foggy.
Palos, Hoo-i-tan Bay, China	30.20	767.1	52	11.1	86	nne.			6		10							overcast.
Passaic, Washington, D. C	30.67	779.0	31	— 0.6	?	ne.			1		2							clear.
Pensacola, S. 20° 16′, W. 70° 17′	29.95	760.7	65	18.3	89	ese.			1		10			0	0	mod.	s.	cloudy.
Powhatan, Roseau Dominica, W. I	30.12	765.0	77	25.0	73	ne.			1		8		ne.					cloudy.
Quinnebaug, N. 40° 05′, E. 26° 12′	30.17	766.3	51	10.6	72	ne			6		8		calm			mod.	ne.	cloudy.
Ranger, Acapulco, Mexico*	29.88	758.9	75	23.9	81	calm			0		0			0	0	sm'h		clear.
Richmond, Yokohama, Japan*	30.06	763.5	48	8.9	85	calm			0		2			0.1	3.			fair.
Shenandoah, S. 1° 51′, W. 34° 50′*	30.05	763.3	83	28.3	83	se.			3		8		se.			long	se.	fair.
St. Louis, League Island	29.90	759.4	27	— 2.8	77	n.	13	5.8			2			0	0			fair.
Swatara, Yokohama, Japan*	29.95	760.7	50	10.0	72	calm			0		5		calm			sm'h		hazy.
Tennessee, N. 24° 25′, W. 80° 29′	30.20	768.6	74	23.3	81	sse.	10	4.5			5			0	0	mod		clear.
Vandalia, Havana, Cuba*†	30.29	769.4	69	20.6	90	e.			1		0							clear.
Wabash, Boston, Mass	30.65	778.5	23	— 5.0		nnw.	6	2.7			0			0	0			clear.
Wachusetts, Sitka, Alaska	30.15	765.8	35	1.7	90	ne.			1		1		calm			sm'h		clear.
Wyoming, Port Royal, S. C	30.33	770.4	58	14.4	76	ne.	16	7.2			10		e.	0	0			overcast.
Yantic, Off Pensacola, Florida*	30.12	765.0	69	20.6	90	ese.			2		8		ese.					cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Nova Scotian, N. 45° 03′, W. 43° 12′	29.39	746.5	34	1.1	.....	nnw.	.....	.....	6	.....	10	.....	nw.	.....	.....	high	nnw.	hailing.
S. S. Peruvian, Liverpool, Eng*	29.79	756 7	44	6.7	.....	sw.	.....	.....	8	.....	6?	.....	sw.	0	0	.....	.....	clear.?
S. S. Prussian, Boston, Mass*	30.58	776.7	24	— 4.4	.....	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	hazy.
S. S. Scandinavian, N. 52° 52′ W. 22° 40′*	29.80	756.9	43	6.1	.....	sse.	.....	.....	6	.....	9	.....	s.	.....	.....	high	long	showery.
S. S. Waldensian, N. 51° 08′, W. 29° 28′*	29.38	746.2	44	6.7	.....	ssw.	.....	.....	6	.....	2	.....	s.	4 h'r snow	rain, &hail	high	w.	raining.
AMERICAN STEAMSHIP COMPANY.																		
S. S. Illinois, N. 40° 17′, W. 55° 54′	29.90	759.4	43	6.1	92	nw.	.....	.....	6	.....	10	.....	nw.	.....	.....	mod.	nw.	overcast.
S. S. Indiana, Philadelphia, Penn†	30.48	774.2	30	— 1.1	41	ne.	.....	.....	4	.....	8	.....	ene.	light	light	.....	.....	cloudy.
S. S. Ohio, N. 46° 35′, W. 41° 26′*†	29.24	742.7	36	2.2	100	nnw.	.....	.....	10	.....	9	.....	n.	.....	.....	h'vy	n.	snowing.
ANCHOR LINE.																		
S. S. Devonia, N. 52° 40′ W. 26° 20′*†	29.60	751.8	46	7.8	.....	s.	.....	.....	3	.....	8	.....	wsw.	.....	.....	hv'y	cross	
S. S. Galatia, N. 45° 10′, W. 45° 18′†	29.61	752.1	.....	.....	.....	nnw.	.....	.....	10	.....	9	.....	n.	12h'r	rain& snow	nnw.	high	sleeting.
ATLAS LINE.																		
S. S. Ailsa, Portau Prince, Hayti, W. I.†	30.12	765.0	80	26.7	78	calm	.....	.....	0	.....	0	.....	.....	0	0	sm'h	.....	fine.
S. S. Alvo, Cartagena, U. S. C.	30.00	762.0	78	25.6	.....	nne.	.....	.....	5	.....	7	.....	ne.	0	0	.....	.....	fine.
BOSTON AND HALIFAX LINE.																		
S. S. Carroll, Halifax, N. S†	30.53	775.4	48	8.9	85	n.	.....	.....	.....	.....	.....	.....	.....	snow	snow	.....	.....	snowy.
BRITISH METEOROLOGICAL OFFICE.																		
S. Auckland, S. 6° 04′, W. 31° 20′	30.01	762.2	81	27.2	.....	se.	.....	.....	3	.....	5	.....	.....	.....	.....	.....	.....	blue sky.
S. Baroda, S. 46° 28′, E. 13° 45′	30.09	764.3	45.5	7.5	92	w.	.....	.....	6	.....	c	.....	.....	.....	.....	.....	.....	misty.
Bk. Caldew, S. 3° 56′, W. 27° 28′	30.00	762.0	82.5	28.0	.....	se.	.....	.....	5	.....	6	.....	.....	.....	.....	.....	.....	misty.
S. S. Cipero, off Beachy Head, England	30.36	771 1	50.5	10.3	93	wsw.	.....	.....	3	.....	9	.....	.....	.....	.....	.....	.....	misty.
Bk. Coppename, N. 34° 22′, W. 46° 00′	30.04	763.0	64	17.8	92	wsw.	.....	.....	5	.....	10	.....	.....	.....	.....	.....	.....	raining.
S. S. Gordon Castle, N. 10° 35′, E. 59° 15′	29.94	760.5	81.2	27.3	74	ne.	.....	.....	5	.....	2	.....	.....	.....	.....	.....	.....	d. clouds.
Bg. Hermine, S. 27° 35′, W. 25° 21′	30.20	767.1	78	25.6	82	nne.	.....	.....	3	.....	5	.....	.....	.....	.....	.....	.....	d. clouds.
S. S. Humboldt, N. 39° 42′, W. 70° 30′	30.60	777.2	30	— 1.1	78	ne.	.....	.....	6	.....	3	.....	.....	.....	.....	.....	.....	d. clouds.
S. Lochee, N. 14° 37′, W. 36° 17′	30.13	765.3	73	22.8	83	ne.	.....	.....	5	.....	7	.....	.....	.....	.....	.....	.....	d. clouds.
S. S. Minho, S. 6° 00,′ W. 33° 35′	29.97	761.2	82	27.8	81	ese.	.....	.....	5	.....	5	.....	.....	.....	.....	.....	.....	d. clouds.
Queen of Cambria, N. 11° 10′, E. 80° 56′	29.89	759.2	83	28.3	67	ene.	.....	.....	2	.....	1	.....	.....	.....	.....	.....	.....	blue sky.
BRISTOL LINE.																		
S. S. Brooklyn City, N. 43° 28′, W. 44° 43′*†	29.90	759.4	48	8.9	.....	nw.	.....	.....	6	.....	8?	.....	nnw.	0	0	r'gh	cf'd	clear.?
CROMWELL LINE.																		
S. S. New Orleans, N. 28° 16′ W. 80° 00′*†	30.30	769.6	65	18.3	.....	s.	.....	.....	.....	.....	2	.....	se.	.....	.....	mod.	se.	smoky.
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. Canada, Havre, France	30.40	772.2	53.6	12.0	.....	sw.	.....	.....	2	.....	8	.....	sw.	0	0	.....	.....	
St. Laurent, N. 48° 50′, W. 26° 40′*†	29.25	743.0	57.2	14.0	.....	s.	.....	.....	9	.....	.....	.....	.....	rain	rain	hv'y	s.	sailing.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Lessing, N. 51° 29′, E. 2° 00′ *†	30.27	768.8	68	20.0	.....	sse.	.....	.....	3	.....	10	.....	s.	0	0	sm'h	s.	cloudy.
LEYLAND LINE.																		
S. S. Iberian, N. 50° 13′, W. 34° 07′	.....	.....	.....	.....	.....	se.	.....	.....	3	.....	10	.....	w.	4 h'r	snow	high	cross	
MALLORY LINE.																		
S. S. Colorado, N. 39° 52′, W. 74° 03′†	30.62	777.7	28	— 2.2	.....	n.	.....	.....	4	.....	1	.....	n.	0	0	mod.	ne.	clear.
MERCHANTS' EXPRESS LINE.																		
S. S. Hermod, N. 40° 26′, W. 61° 10′ *†	30.10	764.5	32.0	0.0	.....	nne.	.....	.....	6	.....	9	.....	nne.	2 h'r	snow	r'gh	ne.	cloudy.
S. S. Glenfyne, N. 19° 00′, W. 55° 30′	29.82	757.4	76	24.4	.....	ne.	.....	.....	5	.....	.....	.....	.....	.....	.....	long	nne.	clear.
NATIONAL LINE.																		
S. S. Erin, N. 48° 50′, W. 26° 04′	29.55	750.6	50	10.0	.....	ssw.	.....	.....	6	.....	6	.....	ssw.	2 h'r	h'vy	r'gh	ssw.	threatening
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Amsterdam, N. 49° 40′, W. 8° 38′*†	30.46	775.7	49	9.4	.....	sw.	.....	.....	4-5	.....	.....	.....	.....	.....	.....	.....	wsw.	
S. S. Alvena, Kingston, Jamaica, W. I*†	29.94	760.5	76	24.4	.....	n.	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	clear.
S. S. Olbers, N. 39° 35′ W. 9° 40*†	30.42	772.7	60	15.6	.....	calm	.....	.....	0	.....	.....	.....	.....	.....	.....	.....	nw.	clear.
S. S. P. Caland, N. 42° 29′, W. 40° 44′	29.33	745.0	53.6	12.0	.....	w.	.....	.....	9	.....	.....	.....	.....	.....	.....	9	w.	raining.
NORTH GERMAN LLOYD																		
S. S. Hermann, N. 41° 46′, W. 59° 49′*†	30.29	769.4	28.4	— 2.0	.....	n.	.....	.....	6	.....	4	.....	n.	7 h'r	snow	mod.	n.	fair.
S. S. Hohenzollern, S. 23° 53′, W. 41° 15′*	30.01	762.2	78.1	25.6	.....	e.	.....	.....	3	.....	2	.....	se.	0	0	3	e.	clear.
S. S. Kronprinz F. Wilhelm, N. 49° 15′, W. 23° 25′	29.78	756.4	50.0	10.0	.....	wsw.	.....	.....	6	.....	5?	.....	w.	rain	rain	6-8	wsw.	cloudy.?
S. S. Neckar, N. 40° 57′ W. 48° 45′	29.84	757.9	34.5	1.4	.....	nnw.	.....	.....	5-6	.....	8	.....	n.	2½h'r	2½h'r	mod.	.....	clearing.
S. S. Nurnburg, S. 33° 15′, W. 50° 02′*	30.10	764.5	75.2	24.0	81	nne.	.....	.....	4	.....	5	.....	nne.	0	0	4	nne.	fair.
S. S. Oder, N. 44° 55′, W. 49° 28′*.	29.85	758.2	19.6	— 6.9	.....	nw.	.....	.....	5	.....	4	.....	nw.	0	0	long	nw.	fair.
S. S. Ohio, N 49° 31′, W 9° 13′	30.29	769.4	.....	.....	.....	sw.	.....	.....	4	.....	5	.....	sw.	3 h'r	light	long	wsw.	fair.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Belgic Hong-Kong, China†	30.12	765.0	61	16.1	100	calm	.....	.....	0	.....	10	.....	ne.	0	0	.....	.....	overcast.
S. S. Gaelic, N. 34° 55′, E. 156° 49′†	30.32	770.1	55	12.8	68	s.	.....	.....	3	.....	9	.....	.....	.....	.....	mod.	nw.	clear.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, New York, N. Y.†	30.59	777.0	.....	.....	.....	n.	.....	.....	4	.....	0	.....	.....	0	0	.....	.....	clear.
S. S. Seminole, Boston, Mass†	30.62	777.7	24	— 4.4	.....	nw.	.....	.....	3	.....	1	.....	nw.	0	0	.....	.....	clear.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. City of Chester, off Point Boneta, Cal.*†	30.13	765.3	54	12.2	87	nnw.	.....	.....	7	.....	2	.....	nnw.	.....	.....	r'gh	nnw.	clear.
S. S. Columbia, N. 43° 15′ W. 124° 46′†	30.30	769 6	44	6.7	84	wnw.	.....	.....	3	.....	5	.....	wnw.	0	0	mod.	wnw.	hazy.
S. S. Oregon, Columbia River, Oregon†	30.07	763 8	37	2.8	90	calm	.....	.....	0	.....	10	.....	.....	.....	.....	.....	.....	foggy.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, N. 33° 42′ W. 118° 24′†	30.14	765.5	49	9.4	93	e.	.....	.....	3	.....	0	.....	.....	.....	.....	sm'h	.....	clear.
S. S. Geo. W. Elder, Seattle, Washington Ter †	30.15	765.8	40	4.4	.....	calm	.....	.....	0	.....	7	.....	se.	0	0	.....	.....	cloudy.
S. S. Idaho, San Francisco, Calf	30.12	765.0	49	9.4	85	w.	.....	.....	3	.....	8	.....	s.	.....	.....	.....	.....	cloudy.
S. S. State of California, San Francisco, Cal.†	30.11	764.8	47	8.3	92	calm	.....	.....	0	.....	6	.....	.....	0	0	.....	.....	cloudy.
S. S. Victoria, N. 42° 08′, W. 124° 48′†	30.24	768.2	44	6.7	84	wnw.	.....	.....	5	.....	0	.....	.....	.....	.....	h'vy	nw.	clear.
PACIFIC MAIL STEAMSHIP CO.																		
S. S. Australia, S. 32° 52′, E. 176° 03′	29.86	758.4	71	21.7	100	se.	.....	.....	5	.....	10	.....	se.	1 h'r	1 h'r	mod	se.	hazy.
S. S. City of Rio de Janeiro, Panama, Panama†	30.13	765 3	79	26.1	74	n.	.....	.....	2	.....	5	.....	e.	0	0	sm'h	.....	fine.
S. S. City of Sydney, Sydney, N. S. W†	29.95	760.7	73	22.8	81	s.	.....	.....	4	.....	2	.....	s.	0	0	sm'h	.....	clear.
S. S. Colima, N. 14° 09′ W. 91° 54′†	29.93	760.2	76	24.4	86	nno.	.....	.....	3	.....	6	.....	n.	0	0	sm'h	s.	fair.
S. S. Colon, N. 14° 03′ W. 76° 47′†	30.12	765.0	80	26.7	.....	ene.	.....	.....	3	.....	5	.....	ene.	.....	.....	large	ene.	fair.
S. S. Zelandia, S. 2° 08′ W. 166° 43′	29.83	757.7	78	25.6	79	n.	.....	.....	2	.....	0	.....	.....	.....	.....	sm'h	.....	fine.
QUEBEC STEAMSHIP CO.																		
S. S. Muriel, Antigua, W. I.	.....	.....	.....	.....	.....	ene.	.....	.....	4	.....	2	.....	.....	0	0	sm'h	.....	fair.
S. S. Bermuda, Ponce, W. I.†	30.15	765.8	74	23.3	.....	n.'	.....	.....	1	.....	2	.....	e.	½ h'r	½ h'r	.....	.....	fine.
RED STAR LINE.																		
S. S. Belgenland, N. 43° 30′, W. 48° 38′†	29.87	758.7	34	1.1	71	wnw.	.....	.....	7	.....	9	.....	nw.	18 h'r	18h'r	h'vy	var.	rainy.
S. S. Rhynland, N. 49° 00′ W. 19° 36′	29.97	761.2	55	12.8	80	sse.	.....	.....	4	.....	4	.....	ssw.	0.3	S.	long	sw.	fair.
S. S. Switzerland, N. 49° 47′ W. 12° 11′†	30.21	767.3	.....	.....	.....	sw.	.....	.....	3	.....	10	.....	w.	3 h'r	driz	long	sw.	misty.
S. S. Vaderland, Antwerp, Belgium*†	30.33	770.4	51	10.6	.....	sSW.	.....	.....	5	.....	8	.....	s.	0	0	.....	.....	cloudy.
S. S. Waesland, N. 41° 06′ W. 55° 24′	30.13	765.3	38	3.3	.....	nnw.	.....	.....	6	.....	10	.....	nw.	18 h'r	18 h'r &hail	mod.	wnw.	cloudy.
ROTTERDAM LINE.																		
S. S. Schiedam, N. 49° 47′ W. 10° 20′*	30.13	765.3	56.3	13.5	98	sw.	.....	.....	6	.....	8	.....	w.	0	0	r'gh	sw.	drizzling.
THINGVALLA LINE.																		
S. S. Thingvalla, N. 41° 55′ W. 54° 27′†	30.11	764.8	31.1	— 0 5	.....	nnw.	.....	.....	5	.....	10	.....	nnw.	3 h'r	rain& snow	h'vy	nnw.	covered.
WARREN LINE.																		
S. S. Iowa, N. 43° 06′ W. 47° 38′*†	29.92	760.0	31	— 0.6	.....	wnw.	.....	.....	6	.....	10	.....	wnw.	5 h'r	h'vy	r'gh	con.	cloudy.
WHITE STAR LINE.																		
S. S. Celtic, Liverpool, Eng.*†	29.97	761.2	50	10.0	71	sw.	.....	.....	5	.....	5	.....	wsw.	sh'rs	sh'rs	.....	.....	fair.
S. S. Republic, N. 42° 25′, W. 55° 37′†	30.02	762.5	38	3.3	71	wnw.	.....	.....	6	.....	5?	.....	nw.	snow	snow	mod.	nw.	clear.?
WILSON LINE.																		
S. S. Salerno, New York, N. Y.†	30.67	779.0	.....	.....	.....	n.	.....	.....	1-2	.....	0	.....	.....	.....	.....	.....	.....	light snow.?

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
MISCELLANEOUS.																		
Sch. Addie Fuller, Cedar Keys, Florida†	30.35	770.9	65	18.3	94	ne.			3	3 ck	hz.			0	0			clear.
Bk. Adelaide, S. 0° 32′, W. 31° 12′*†	30.02	762.5	81	27.2		se.			2		2		ese.	0	0	mod.	se.	hazy.
Bk. Alpha, N. 28° 50′, W. 73° 55′*†	30.30	769.6	71	21.7		ene.			2		2		ne.	0	0	sm'h		fair.
Sch. Annie M. Law, N. 41° 40′ W. 53° 50′*†	30.03	762.7	36	2.2	55	nw.			6		10		nw.	18 h'r	sleet	long	sw.	sleeting.
Sch'r Annie R. Lewis, N. 37° 05′, W. 73′ 32*′†	30.50	776.2	45	7.2		n.			3		10		nne.	0	0	r'gh	n.	threatening.
Sch'r Annie M. Smull, N. 1° 00′ W. 27° 35′*†	30.00	762.0	89	31.7		ne.					5?		calm	2 h'r	2 h'r	mod.	se.	clear.?
Bk. Bergenseren, N. 34° 16′ W. 46° 30′†	30.03	762.7				w.			3				w.	rain	rain	4	w.	overcast.
Bk. Celestina, N. 32° 14′, W. 37° 20′*†	30.15	765.8				calm			0		1		w.	0	0	long	var.	clear.
Bk. E. L. Pettingill, S. 39° 54′, W. 80° 09′†	30.40	772.1				s.			2		2		sw.	0	0	mod.	w.	clear.
S. Enoch Train, Bremerhaven, Germany*	30.02	762.5				wsw.			6		10		wnw.	sh'rs	shr's			stormy.
U.S.F.C.S.S. Fish Hawk, Annapolis, Md.†	30.69	779.5	34	1.1	79	ne.			5		9		ne.	0	0			cloudy.
Bk Freya, N. 28° 30′, W. 70° 48′			70	21.1		nne.			2		0			0	0	sm'h		fair.
S. Grecian, N. 27° 37′ W. 20° 41′*†	30.23	767.8	65	18.3		ne.			3		9		ne.	0	0	mod.	nne.	c oudy.
Bk. Geo. Booth, S. 31° 34′, W. 19° 00′*†	30.05	763.3				n.			4		0			0	0	mod.	w.	clear.
Bk. Granville, N. 0° 36′, W. 28° 24′*†	30.14	765.5				se.			1					0	0	mod.	se.	clear.
Schr. Henry Denison, N. 16° 41′, W. 59° 21′†	30.12	765.0				e.			5		4		e.	0	0	high	se.	fair.
Bk. Johanne Auguste, S. 24° 00′, E. 86° 48′*	29.89	759 2				e.			3		2		ene.	0	0	long	ssw.	fair.
Bk. Kate Cann, N. 41° 54′, W. 43° 49.						nw.			5		8		nw.	12 h'r	snow	mod.	nnw.	snowy.
Bkt. Kryolith, N. 39° 28′, W. 43° 30′*†	29.72	754.9				nw.			4		10		w.	driz	driz	h'vy	w.	cloudy.
S. S. Lamperts, N. 41° 19′ W. 49° 35′*†	29.84	757.9	40.0	4.4	82	n.			5		10					5	con.	overcast.
Schr. Maggie Abbott, N. 28° —′, W. 72° —′*†	30.28	769.1				e.			1					0	0	mod.	n.	clear.
S. S. Malabar, N. 32° 23′, W 60° 55′*†	30.22	767.6				n.			6		8		n.	0	0	hv'y	n.	cloudy.
Bk. Pawashick, N. 16° 15′, W. 60° 55′*†	30.42	772.7	75	23.9	90	ene.			3		8		e.			mod	ne.	raining.
Bk. Peppina, N. 39° 12′, E. 17° 53′†	30.03	762.7	59	15.0	88	n.			5		5		n.			mod.	n	fair.
Bk Pilgrim, S. 45° 30′, E. 32° 15′*†	29.60	751.8				w.			3		2?		w.	hail	hail	high	w.	hailing?
Schr. S. B. Hubbard, Jacksonville, Florida*†	30.24	768.1	65	18.3		ne.			1		10			0	0			threatening.
Bk. Stella, S. 46° 12′, W. 53° 56′*	29.60	751.8	57.4	14.1	94	wsw.			5		1		w.	0	0	rg'h	sw.	clear.
Bk. Sunbeam, N. 22° 21′, W. 58° 59′*†	30.21	767.3	75	23.9	77	nne.			6		8		ne.	0	0	mod.	ne.	cloudy.
S. S. Victoria J. Peed, N. 33° 00′, W. 78° 50′*†	30.34	770.6				ne.			6		10		ese.			short	ene.	rainy.
Bg. Wauburn, S. 30° 30′, E. 13° 08′*†	30.20	767.1				sse.			7		8		sse.			h'vy	sse.	
S. Wm. Woodbury, Bremerhaven, Germany*†	29.90	759.4	50	10.0	65	w.			2				w.					



Data, as appearing in the International Bulletin of similar date.

Isobars in *black* exhibit atmospheric pressure at sea-level, and are charted from data as reported by the several observers.

Isotherms in *red* exhibit temperature of air, similarly charted.

Broken or dotted lines indicate that the lines so broken are doubtful.

Arrows, when charted, fly with the wind and exhibit wind-direction and force.

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W. B. Hazen

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

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INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON MARCH 9, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours	.....	.....	30.40	772.2	64.4	18.0	86	sw.	.....	.....	2	.....	0	.....	.....	0	0	clear	Moiroud.
Algiers	.....	.....	30.44	773.2	59.4	15.2	81	nw.	.....	.....	1	.....	0	.....	.....	0	0	clear	Nicolas.
La Calle	.....	.....	30.44	773.2	64.4	18.0	80	nnw.	.....	.....	1	.....	3	.....	.....	0	0	pretty fair	Fonfrède.
Tunis	.....	.....	30.40	772.1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.41	772.5	57.6	14.2	39	nw.	.....	.....	1	.....	0	.....	.....	0	0	clear	Dumas.
Tebessa	.....	.....	.....	.....	46.8	8.2	89	nw.	.....	.....	6	.....	4	.....	.....	0	0	cloudy	Derché.
Geriville	.....	.....	.....	.....	51.4	10.8	23	n.	.....	.....	1	.....	0	.....	.....	0	0	clear	Louchamp.
Laghouat	.....	.....	30.46	773.6	53.6	12.0	45	e.	.....	.....	1	.....	1	.....	.....	0	0	very fair	Herbin.
Biskra	.....	.....	30.41	772.4	69.8	21.0	31	n.	.....	.....	1	.....	6	.....	.....	0	0	very cloudy	Malau.
Australian.																			
Melbourne, Victoria	29.78	756.4	29.87	758.7	64.0	17.8	93	w.	3	1.3	.....	.....	2	.....	.....	0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.83	757.7	30.39	771.8	57.2	14.0	47	s.	.....	.....	1	.....	1	.....	.....	0	0	.....	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.45	748.1	30.22	767.7	54.7	12.6	50	wsw.	19.2	8.6	.....	.....	5	.....	.....	0	0	.....	Dr. Wierzbiski.
Eperies	29.28	743.8	30.18	766.5	48.2	9.0	74	s.	.....	.....	2	0	8 s	.....	se.	0	0	.....	Julius Mikolik.
Gratz	29.10	739.1	30.35	770.9	58.3	14.6	52	ne.	.....	.....	2	.....	3	.....	.....	0	0	.....	Andreas Rospini.
Hermannstadt	28.78	731.0	30.22	767.7	54.5	12.5	49	nw.	.....	.....	3	.....	0	.....	.....	0	0	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	29.08	738.6	30.45	773.3	51.1	10.6	73	nw.	.....	.....	1	.....	10	.....	.....	0	0	gloomy	The Staff.
Lemberg	29.04	737.7	30.04	763.1	48.7	9.3	72	nw.	.....	.....	3	.....	5	.....	.....	0	0	.....	Dr. T. Stanecki.
Pola	30.20	767.1	30.32	770.0	56.5	13.6	73	nw.	.....	.....	1	.....	3	.....	.....	0	0	.....	I. R. Hydrographic Office.
Szathmar	29.76	755.8	30.22	767.7	50.5	10.3	66	w.	.....	.....	2	.....	10	.....	.....	0	0	.....	Joseph Midlinszky, S. J.
Szegedin	29.98	761.6	30.26	768.7	57.2	14.0	.....	w.	.....	.....	2	.....	10	.....	.....	0	0	.....	Karl Stancel.
Trieste	30.24	768.1	30.34	770.7	56.5	13.6	64	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	Rieder.
Vienna	29.65	753.2	30.38	771.6	54.7	12.6	57	w.	.....	.....	4	.....	10	.....	.....	0	0	.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.58	751.3	29.68	753.9	52.1	11.2	77	s.	26	11.6	.....	.....	7	.....	.....	0	0	squally	W. Boswell.
Armagh, Observatory	29.63	752.6	29.88	758.9	54.2	12.3	84	sswv.	31	13.9	.....	.....	10	.....	.....	.....	.....	squally	S. Call.
Bidston, Liverpool Obs'y	.....	.....	30.10	764.5	55.2	12.9	73	sw.	36	16.1	.....	.....	10	.....	.....	.....	.....	overcast	John Hartnup.
Bolton, Sharples	29.58	751.3	30.12	765.0	52.7	11.5	76	sw.	24	10.7	.....	.....	9	.....	.....	0	0	d. clouds	Thomas Mackereth. [A.S.
Bradford, Yorkshire	29.69	754.1	30.08	764.0	55.1	12.8	70	sw.	.....	.....	4	.....	5	.....	.....	0	0	d. clouds	J. McLandsborough, F. R
Bridgetown, Barbadoes	30.04	763.0	30.07	763.8	83.0	28.3	64	ne.	.....	.....	2	.....	2	.....	.....	.....	.....	d. clouds	Pvt. J. Surgenor, A. H.C.
Cardington	.....	.....	30.27	768.8	56.0	13.3	74	sw.	.....	.....	3.0	.....	10	.....	.....	.....	.....	overcast	John McLaren.
Chatham, School M. E	30.24	768.1	30.38	771.6	53.1	11.7	86	sw.	.....	.....	1	.....	10	.....	.....	.....	.....	misty	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	30.12	765.0	30.35	770.9	52.5	11.4	83	ssw.	.....	.....	4	.....	10	.....	.....	.....	.....	overcast	The Staff.
Fort Napier, Natal	27.82	706.6	30.04	763.0	65.2	18.4	38	s.	.....	.....	4	.....	2	.....	.....	.....	.....	blue sky	Pvt. E. K Annis, A.H.C.
Free Town, Sierra Leone	29.60	751.8	29.83	757.7	89.0	31.7	66	w.	.....	.....	1	.....	2	.....	.....	.....	.....	d. clouds	Sergt. John Robinson.
Galway, Queen's College	.....	.....	29.86	758.4	.....	.....	.....	sw.	.....	.....	2	.....	10	.....	.....	0.18	4.6	raining	J. O'Donaghue.
Gibraltar, Mediterranean	30.32	770.1	30.38	771.6	65.0	18.3	80	e.	.....	.....	4	.....	4	.....	.....	.....	.....	blue sky	Cpl. O. Baldwin.
Glasgow, Observatory	29.61	752.1	29.82	757.4	51.2	10.7	82	ssw.	.....	.....	7	.....	10 n	.....	.....	.....	.....	gloomy	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	30.17	766.3	30.35	770.9	53.2	11.8	83	sw.	.....	.....	4	.....	10	.....	.....	.....	.....	drizzling	The Staff.
Guernsey	30.18	766.6	30.49	774.4	49 0	9.4	93	ssw.	.....	.....	1	.....	10	.....	.....	.....	.....	overcast	A. Collenette, F. M. S.
Kew, Observatory	30.32	770.1	30.35	770 9	53.4	11.9	76	sw.	21	9.4	.....	.....	10	.....	.....	.....	.....	threatening	The Staff.
Leicester, Museum	29.97	761 2	30.22	767.6	55.3	12.9	72	sw.	.....	.....	2	.....	8	.....	.....	.....	.....	d. clouds	J. C. Smith.
Malta, Mediterranean	30.09	764.3	30.17	766.3	60.2	15.7	82	ne.	.....	.....	3	.....	3	.....	.....	.....	.....	blue sky	I. H. Whysall.
Nassau, Bahamas	30.24	768.1	30.29	769.4	75.5	24.2	70	e.	.....	.....	2	.....	7	.....	.....	.....	.....	d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.68	753.9	30.21	767.3	54.3	12.4	73	ssw.	.....	.....	4	.....	9	.....	.....	.....	.....	squally	John Mac Email.
Oxford, Radcliffe Obs'y	29.98	761.5	30.21	767.3	53.7	12.1	76	s.	.....	.....	5	.....	10	.....	.....	.....	.....	squally	The Staff.
Plymouth	30.29	769 4	30.36	771.1	52.8	11.6	90	ssw.	.....	.....	3	.....	10	.....	.....	.....	.....	overcast	John Merrifield.
Sandwick Manse, Orkneys	.....	.....	29.41	747.0	52.4	11.3	76	s.	24	10.7	.....	.....	8	.....	.....	.....	.....	squally	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	30.12	765.0	30.18	766.6	49.6	9.8	53	ne.	.....	.....	2	.....	2	.....	.....	.....	.....	d. clouds	W. H. Lyne.
Sheffield	29.88	758.9	30.16	766.1	56.1	13.4	80	sw.	.....	.....	2	.....	9	.....	.....	0	0	overcast	W. F. Cooper.
Silloth Rectory	29.93	760.2	29.96	761.0	48.9	9.4	94	ssw.	.....	.....	7	.....	10	.....	.....	0.555	14.1	raining	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	30.11	764.8	54.0	12.2	76	sw.	28	12.5	.....	.....	10	.....	.....	.....	.....	squally	R. S. J. Perry.
Stratfield Turgiss	30.14	765.5	30.35	770.9	52.7	11.5	83	sw.	.....	.....	3-4	.....	10	.....	.....	.....	.....	squally	Rev. C. H. Griffiths, F.M.S.
Truro, Royal Institution	30.28	769.1	30.32	770.1	57	13.9	69	sw.	.....	.....	6	.....	5	.....	.....	.....	.....	d. clouds	W. Newcombe.
Valencia, Observatory	29.97	761.2	29.99	761.7	52.9	11.6	93	s.	50	22.4	.....	.....	10	.....	.....	.....	.....	misty	The Met'g'l Office.
Canadian.																			
Charlottetown, P. E. Island	30.44	773.2	30.49	774.4	12	—11.1	79	w.	5	2.2	.....	0	0	.....	.....	0	0	clear	H. J. Cundall, C. E.
Chatham, N. B*	30.43	772 9	30.50	774.7	— 4	—20.0	100	sw.	1	0.4	.....	0	0	.....	.....	0	0	clear	G. A. Blair.
Father Point, Quebec*	30.40	772.1	30.42	772.7	12	—11.1	83	sw.	10	4.5	.....	.....	10 s	.....	calm	0	0	cloudy	J. McWilliams.
Fort Garry, Manitoba*	29.26	743.2	30.17	766.3	4	—15.6	96	calm	0	0	.....	4 k	4 ks	W.	W.	0	0	cloudy	James Stewart.
Halifax, N. S*	30.42	772.7	30.56	776.2	14	—10.0	87	w.	3	1.3	.....	0	0	.....	.....	0	0	clear	A. Allison.
Kingston, Ontario*	29.89	759.2	30.24	768.1	32	0.0	68	s.	10	4.5	.....	.....	10 k	.....	sw.	0	0	cloudy	A. P. Knight, M. A.
Montreal, Quebec*	30.13	765.3	30.35	770.9	19	— 7.2	84	se.	10	4.5	.....	8 ck	2 s	W.	.....	0	0	cloudy	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.45	748.0	30.19	766.8	27	— 2.8	88	ne.	7	3.1	.....	.....	10 n	.....	ne.	0	0	cloudy	Rev. R. Mosley.
Port Dover, Ontario	29.35	745.5	30.07	763.8	34	1.1	100	ne.	5	2.2	.....	.....	10 n	.....	s.	0.05	1.3	light rain	H. Morgan.
Port Stanley, Ontario	29.36	745.7	30.03	762.7	34	1.1	88	e.	12	5.4	.....	.....	10 n	.....	e.	0.08	2.0	light rain	M. Payne.
Quebec, Quebec*	30.13	765.3	30.48	774.2	8	—13.3	76	sw.	.....	.....	1	.....	10 s	.....	sw.	0	0	cloudy	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.77	756.1	30.26	768.6	22	— 5.6	80	e.	4	1.8	.....	.....	10 s	.....	se.	0	0	threatening	W. H. McIntyre.
Saugeen, Ontario*	29.33	745.0	30.08	764.0	29	— 1.7	92	e.	9	4.0	.....	.....	10 s	.....	.....	.....	.....	heavy snow	
St. Andrews, N. B	30.50	774.7	30.55	776.0	18	— 7.8	95	calm	0	0	.....	0	0	.....	.....	0	0	clear	
Sydney, C. B*	30.41	772.4	30.48	774.2	8	—13.3	96	sw.	8	3.6	.....	0	0	.....	.....	0	0	clear	G. Murdock, C. E.
Toronto, Ontario*	29.75	755 6	30.15	765.8	32	0.0	85	ne.	7	3.1	.....	.....	10 n	.....	.....	0.01	0.3	light snow	Magnetic Observatory.
Yarmouth, N. S*	30.50	774.7	30.57	776.5	28	— 2.2	80	w.	6	2.7	.....	2 cs	0	W.	.....	0	0	fair	Lt. F. E. Wilmot, R. N.
Sub-series.																			
St. Johns, Newfoundland	30.00	762.0	30.28	769.1	14	—10.0	.....	w.	3	1.3	.....	0	0	.....	.....	0	0	.....	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.23	767.8	30.26	768.6	66.0	18.9	64	e.	9.1	4.1	.....	0	2 s	.....	.....	0.100	2.5	clear	John Duthie.
Cape Town, C. G. H. Obs'y	30.12	765.0	30.16	766.1	83.4	28.6	28	s.	21	9.4	.....	0	0	.....	.....	0	0	.....	The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
CHINESE (*Sub-series*).																			
Hankow																			
Zi-Ka-Wei, near Shanghai	30.30	769.6	30.33	770.3	43.2	6.2	72	sse.	2.0	0.9			10 k						N. Titoushkin.
DANISH.																			M. Marc Dechevrens, S.J.
Copenhagen	30.19	766.9	30.24	768.1	47.3	8.5	76	nw.	24.6	11			6						
Fanöe	30.23	767.8	30.25	768.3	44.8	7.1	88	wsw.			4		10						Oversergeant Fischer.
Godthaab, Greenland	29.08	738.6	29.12	739.7	—4.4	—20.2	93	ene.			2		10						Overlooerer Lauridsen.
Stykkisholm, Iceland	27.99	710.9	28.03	712.0	32.0	0.0	96	ne.			7		10						S. Kleinschmidt.
Thorshavn	28.80	731.6	28.84	732.5	48.9	9.4	79	s.	26.8	12			7					snowing	A. O. Thorlacius
Vestervig	30.08	763.9	30.17	766.2	43.9	6.6	93	sw.			4		5					raining	Overlooerer Bergh.
FRENCH.																			Loearer Oesterbol.
Agen, Normal School	29.81	757.2	30.49	774.4	62.2	16.8	69	calm			0		0			0	0	clear	M. Labroue, Director.
Alençon, Normal School	29.91	759.6	30.46	773.6	58.1	14.5	72	s.					k		n.	0	0		M. Nicot, Director.
Arras, Engineer School	30.13	765.4	30.40	772.1	55.4	13.0	73	sw.			1		1c		sw.	0	0	covered	M. Klein, *Commandant*.
Avignon, Normal School	30.32	770.0	30.39	772.0	66.2	19.0	43	n.			1		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.93	760.1	30.49	774.4	56.3	13.5	76	e.			1		3			0	0	slightly cl'dy	M. Saillard, Director.
Beauvais, Normal School	30.21	767.3	30.48	774.2	59.2	15.1	58	wsw.			1		8		sw.	0	0	very cloudy	M. Frère Eugène Mari.
Besançon, Normal School	29.48	748.7	30.39	771.9	55.4	13	66	ne.			1		0			0	0	clear	M. Gobin, Director.
Bordeaux, *Observatory*	30.19	766.8	30.45	773.5	58.8	14.9	71	wsw.			1		0			0	0	clear	M. Rayet, Director.
Bourges, Normal School	29.91	759.8	30.47	773 9	57.2	14	67									0	0		M. Postel, Director.
Brest, Naval *Observatory*	30.18	766.6	30.42	772.7	51.8	11.0	86	sw.			2		10		sw.	0.008	0.2	covered	M. de Kermaree, Dir.
Caen, Normal School	30.35	770.9	30.43	772.8	52.9	11.6	80	sw.			2		10		sw.	0	0	covered	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	30.11	764.7	30.43	773.0	58.1	14.5	80	s.			1		5		sw.	0	0	cloudy	M. Judot, Director.
Charleville, Normal School	29.94	760.4	30.46	773.6	56.1	13.4	58	s.			1		8			0	0	¾ covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	29.10	739.2	30.45	773.4	63.9	17.7	50	w.			1		0			0	0	clear	M. Allnard, Director.
Cluny, Normal School	29.61	752.0	30.47	773.8	59.0	15	78	nw.			2		6			0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.63	752.6	30.52	775.3	58.5	14.7	44	wnw.			1		5	wnw.	wnw.	0	0	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.84	707.0	30.35	770.8	64.4	18	62									0	0		M. Jeangirard, Director.
Gréasque, du. Rhone	29.22	742.3	30.34	770.5	67.5	19.7	21	sw.			1		0			0	0	clear	M. Kina, Director.
Grenoble, Normal School	29.65	753. 2	30.43	772.8	59.0	15	52	e.			1		0			0	0	clear	M. Ablard, Director.
Guéret, Normal School	28.89	733.8	30.45	773.5	62.6	17	43	se.			1		0			0	0	clear	M. Rivoire, Director.
Lamballe, Normal School	30.20	767.1	30.48	774.1	49.1	9.5	81	ssw.			1		8		ssw.	0	0	very cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.84	757.8	30.40	772.1	66.2	19	54	e.			1		0			0	0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	30.39	772.0	30.50	774.6	49.3	9.6	97	s.			1		10			0.028	0.7	covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.40	746.8	30.47	773 9	58.3	14.6	63	ene.			1		1		n.	0	0	hazy	M. André, Director.
Mans, Normal School	30.12	765.1	30.43	773.0	56.7	13.7	70	s.			1		2		sw.	0	0	slightly cl'dy	M. Piboen, Director.
Marseille, *Observatory*	30.09	764.3	30.36	771.1	65.5	18.6	63	sw.			0.1		0			0	0		M. Stephan, Director.
Montlouis l'Instituteur	25.16	639.0	30.00	762.0	51.8	11.0	34	se.	5.6	2.5			0			0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	30.23	767 9	30.37	771.3	69.8	21	39	ne.			1		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.68	753.8	30.47	774.0	53.6	12	81	wnw.			2		0			0	0	covered	M. Hasse, Director
Nantes, Observatory	30.34	770.6	30.51	774.9	61.9	16.6	64	sse.			0-1		10 ck			0	0		M. Larocque, *Director*.
Perpignan, Observatory	30.28	769.2	30.39	772 0	70.5	21.4	31	ne.	7.4	3.3			1			0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.56	547.6			40.5	4.7		ne.			1		0			0	0		Gen'l de Nansouty, Dir.
Privas, Normal School	29.35	745.5	30.41	772.4	65.1	18.4	73	n.			1		1		w.	0	0	clear	M. Taillieu.
Puy de Dôme Obs'y, Summit	25.53	648.5			44.6	7.0	61	wsw.			1		1	n.	n.	0	0	clear	M. Allnard, Director.
Rochefort, Naval Obs'y	30.41	772.4	30 44	773.2	62.2	16.8	66	ene.			1		0			0	0	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	30.29	769.3	30.50	774.8	60.8	16	69	nw.			1		0			0.008	0.2	clear	M. Mouillot, Director.
Rodez, *Normal School*	28.23	717.0	30.43	772.9	57.6	14.2	42	nw.			1		0			0	0	clear	M. Serger, Director.
Rouen, Normal School	30.41	772.3	30.45	773.5	59.0	15	61	sw.			1		0			0	0	clear	M. Platrier, Director.
Saint Maur, Observatory	30.31	769.9	30.48	774.1	58.6	14.8	60	ssw.			1		5			0	0	cloudy	M. Renou, *Director*.
Toulouse, Observatory	29.76	755.9	30.49	774.5	59.7	15.4	63	nnw.			1		10		sw.	0	0		M. Baillaud, Director.
Versailles, Observatory	29.98	761.4	30.47	773.8	60.1	15.6	59	w.			1		1		w.	0	0	clear	Dr. A. Bérigny, Director.
Sub-series.																0	0		
Paris, Montsouris Obs'y	30.19	766.9	30.48	774 3	59.5	15.3	61	s.			1		7		ssw.	0	0		Dr. A. Marié Davy, Director
GERMAN.																			
Bamberg	29.56	750 9	30.43	772.9	57.2	14.0	55	nw.			2	0	5 k		w.	0	0		
Berlin	30.15	765.7	30.32	770.2	54.0	12.2	43	w.			4		0			0	0		Prof. Dr. Hoh.
Breslau	29.75	755.7	30.29	769.3	55.0	12.8	24	wnw.			5		2			0	0		*Prof. Dr. Arndt.*
Carlsruhe	30.02	762.6	30.47	774.0	57.9	14.4	59	sw.			1		1	sw.		0	0		Royal University Obs'y.
Cassel	29.63	752.6	30.35	770 8	55.0	12.8	78	s.			2		8	ssw.		0	0		Albert Senz.
Frankfort on the Main	30.08	763.9	30.44	773.2	60.1	15.6	59	wsw.			1		9			0	0		Dr. H. Mohl.
Friedrichshafen	29.02	737.0	30.49	774.4	48.4	9.1	74	sw.			2		2	nw.		0	0		Physical Society.
Hamburg	30.26	768.6	30.35	771.0	51.8	11.0	78	wsw.			3		3	nw.		0.004	0.1		Wilhelm, Chief Tel.
Kiel	30.25	768.3	30.26	768.7	48.6	9.2	63	wsw.			4		6			0	0		E. Preller.
Leipsic, Astrom'l Obs'y	29.98	761.4	30.40	772.2	55.6	13.1	63	wsw.			3		6	w.		0	0		Prof. Dr. G. Karsten.
Magdeburg	30.19	766.7	30.38	771.6	55.6	13.1	49	w.			1	0	1 ks			0	0		H. Leppig, Asst.
Memel	29.85	758.2	29.90	759.4	41.5	5.3	76	nw.			7		10 s						Dr. Assmann.
Munich	28.61	726.7	30.50	774.8	57.2	14.0	52	nw.			1		4	sw.		0	0		Issermann.
Neufahrwasser	30.08	763.9	30.09	764.3	49.5	9.7	61	nw.			5		8			0	0		*Central Station.*
Neustadt, Palatinate	29.93	760.2	30.47	773.8	57.6	14.2	69	calm			0		8			0	0		A. Lothes.
Stuttgart	29.50	749.3	30.40	772.2	56.8	13.8	69	e.			1		5	w.		0	0		Dicknether.
Wustrow	30.28	769.1	30.30	769.7	43.5	6.4	66	wsw.			3	0	8 s			0	0		Prof. Dr. Schoder.
GREEK.																			Profs. Brandes & Reimer.
Athens	29.75	755.6	30.14	765.5	59.7	15.4		n.			1.5		2 k			0	0		Schmidt & Wourlisch.
INDIAN.																			
Bellary	28.38	720 8			93.0	33.9	11	se.	2.4	1.1		0	0			0	0	blue sky	
Kurrachee	29.95	760.6	30.00	761.9	84.0	28.9	43	wsw.	12	5.4			0			0	0	misty	
Deesa	29.39	746.5	29.86	758.3	90.9	32.7	11	nw.	9.8	4.4			2	nnw.		0	0	d. clouds	
Bombay	29.86	758.3	29.89	759.3	82.3	27.9	73	wnw.	10	4.5			7	w.		0	0	d. clouds	
Poona, Yarrowda	28.01	711.4	29.82	757.5	91.0	32.8	18	w.	20	8.9			8	wsw.		0	0	d. clouds	
Belgaum	27.34	694.4	29.83	757.8	85.3	29.6	38	sw.	7	3.1			1	s.		0	0	d. clouds	
Lahore	29.17	740.8	29.93	760.1	78.9	26.1	20	n.	1.2	0.5			0			0	0	blue sky	
Roorkee	28.97	735.9	29.88	758.9	76.8	24.9	14	nw.	2.3	1.0			0			0	0		
Agra	29.36	745 8	29.93	760.1	84.2	29.0	13	w.	5.1	2.3			0			0	0		
Nagpur	28.89	733.8	29.81	757.1	94.5	34.7	17	sw.	4.1	1.8			9		w.	0	0	d. clouds	
Jubbulpore	28.54	724.9	29.88	758.9	87.6	30.9	26	ne.	3.8	1.7			8		e.	0	0	*overcast*	
Lucknow	29.52	749.7	29.89	759.2	87.1	30.6	17	wsw.	7.5	3.4			8	w.		0	0	misty	
Allahabad	29.58	751.3	29.89	759.2	82.7	28.2	22	ne.	4.3	1.9			3	sw.		0	0	d. clouds	
Patna	29.67	753.5	29.85	758.2	85.0	29.4	27	wnw.	7.5	3.4			5	wnw.	wnw.	0	0	d. clouds	
Hazaribagh	27.87	707.9	29.87	758.7	81.8	27.7	30	nw.	11.9	5.3			8	se.	nw.	0	0		
Cuttack	29.77	756.2	29.85	758.3	89.9	33.2	26	ssw.	1.5	0.7			0			0	0	blue sky	
Calcutta, Allpore	29.82	757.5	29.84	758.0	87.8	31.0	38	wsw.	1.0	0.4			0			0	0	blue sky	
Dhubri	29.65	753.2	29.77	756.2	80.3	26.8	34	calm	1.8	0.8			0			0	0	blue sky	
Chittagong	29.80	757.0	29.90	759.3	78.5	25.8	84	s.	4.4	2.0			1			0	0	blue sky	
Sibsagar	29.50	749.3	29.84	757.9	72.6	22.6	74	ne.	2.9	1.3			0			0	0	*blue sky*	
Jeypore	28.49	723.5	29.93	760.1	82.4	28.0	20	nnw.	5.8	2.6			3	n.		0	0	d. clouds	
Zanzibar, Africa	29.83	757.7			84.6	29.2	65	ne.	9.6	4.3			6		ene.	0	0	d. clouds	
Trichinopoly	29.63	752.6			91.0	32.8	34	e.	2	0.9			2			0	0	d. clouds	
ITALIAN.																			
Udine	29.94	760.4	30.35	770.9	65.5	18.6	36	calm	0	0			4			0	0		Prof. Giovanni Clodig.
Milan	29.85	758.3	30.38	771.6	59.5	15.3	56	w.	3.1	1.4			1			0	0		Prof. Schiaparelli.
Padua	30.25	768.4	30.36	771.2	59.5	15.3	53	se.	0.7	0.3			0			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.43	747.6	30.35	771.0	58.1	14.5	51	s.	1.8	0.8			0			0	0		Prof. P. F. Denza.
Genoa	30.17	766.2	30.36	771.1	62.2	16.8	50	sw.	3.8	1.7			0			0	0		Prof. G. M. Garibaldi.
Mondovi	28.43	722.1	30.37	771.4	55.8	13.2	44	nw.			4		0			0	0		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
ITALIAN.—Continued.																			
Pesaro	30.31	769.8	30.35	771.0	55.4	13.0	68	n.	13.6	6.1			0			0	0		Prof. Luigi Guidi.
Florence	30.06	763.6	30.32	770.1	64.9	18.3	33	s.			2		0			0	0		Prof. Costantino Pitter.
Leghorn	30.23	767.8	30.32	770.0	60.1	15.6	49	nnw.	6.9	3.1			0			0	0		Prof. P. Monte.
Rome	30.11	764.7	30.28	769.1	64.4	18.0	24	nnw	2.5	1.1			0			0	0		Prof. P. S. Ferrari.
Lecce	29.96	760.9	30.21	767.4	62.2	16.8	60	nnw.	24.8	11.1			4	n.		0	0		Prof. C. de Giorgi.
Cosenza	29.34	745.1	30.12	765.0	59.4	15.2	74	nnw.	11.9	5.3			0			0	0		Prof. D. Conti.
Cagliari	30.10	764.4	30.29	769.3	61.3	16.3	47	s.			2		0			0	0		Prof. A. Pacinotti.
Palermo	30.00	762.1	30.26	768.5	62.2	16.8	45	ne.	3.8	1.7			0			0	0		Prof. G. Ciacciatore.
Syracuse	30.13	765.4	30.18	766.5	58.8	14.9	66	e.	13.0	5.8			3	ene.		0	0		Prof. Vincenzo Guiliano.
Sub-series.																			
Naples, S. R	29.72	754.9	30.24	768.2	62.6	17.0	39	ne.	4.9	2.2			1	ne.		0	0		Prof. T. Brioschi.
Stelvio	22.47	570.8			34.0	1.1	49	se.			1		1			0	0	clear	Prof. P. F. Denza.
Valdobbia	22.50	571.5			38.1	3.4	52	ne.			2		0			0	0	clear	Prof. P. F. Denza.
JAPANESE.																			
Aomori	30.24	768.1	30.28	769.1	22.1	— 5.5	97	w.	2.3	1.0		0	0			0	0	clear	K. Ogawa.
Hakodate	30.25	768.3	30.26	768.6	22.0	— 5.6	33	calm	0	0			0			0	0	clear	
Hiroshima, I. M. Obs'y	30.23	767.8	30.24	768.1	36.4	2.4	79	nnw.	6.4	2.9		ck	1 8			0	0	clear	K. Sasaki.
Kanazawa	30.15	765.8	30.26	768.6	36.0	2.2	73	ene.	3.6	1.6		0	3 8			0.002	0.1		S. Endo.
Kioto	30.05	763.3	30.24	768.1	37.3	2.9	74	nnw	1.2	0.5		0	4 8			0	0	fair	M. Tojima.
Kochi	30.21	767.3	30.23	767.8	42.1	5.6	72	nw.	12.5	5.6		1 ck	0			0	0	clear	
Nagasaki, I. M. Obs'y	30.06	763.5	30.27	768.8	41.2	5.1	80	calm	0	0		0	0			0	0	clear	S. Takehayashi.
Niigata	30.20	767.1	30.23	767.8	34.6	1.4	80	e.	1.6	0.7		6 ck	0			0	0	fair	
Nobiru	30.25	768.3	30.26	768.6	33.2	0.7	60	n.	11.1	5.0		0	9 8			0	0	cloudy	H. Midzushima.
Supporo					12.8	—10.7	73	s.	3.0	1.3			0			0.135	3.4	clear	
Tokei Obs'y, Yeddo	30.15	765.8	30.22	767.6	42.6	5.9	77	ne.	6.3	2.8			10 8			0.003	0.1	covered	The Staff.
Wakayama	30.17	766.3	30.22	767.6	43.2	6.2	59	ne.	5.4	2.4			10 8			0	0	cloudy	Y. Kuwamuea.
MAURITIUS.																			
Mauritius Observatory	29.71	754.6	29.90	759.4	81.5	27.5	70	e.	14.5	6.5		1 cs	4 k;ks		ese.	0.08	2.0	fair	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.73	602.8	29.95	760.8	54.5	12.5	90	sw.				0	0			0	0	clear	Vicente Fernandez.
Leon	24.41	620.0	30.14	765.5	55.2	12.9	75	nnw.			1	0	0			0	0	foggy	Prof. M. Leal.
Mazatlan	29.75	755.7	30.02	762.4	56.5	13.6	75	nw.	11.0	4.9		0	0			0	0	clear	F. Quijano, C. E.
Mexico, Central Obs'y	23.11	586 9	30.22	767.7	48.4	9.1	56	w.	0.4	1.0		0	0			0	0	fine	M. Tena, M. D.
Morelia	24.13	613.1	30.26	768.5	55.4	13.0	72	s.			3	1	0	ne.		0	0		The Staff.
Pabellon, Aguascallentes	23.97	608.9	30.08	763.9	48.7	9.3	67	calm	0	0		5	1	sw.		0	0		M. V. de Leon, M. E.
Puebla, Catholic Institute	23.40	594.4	30.25	768.4	47.7	8.7	80	calm	0	0		0	0			0	0	clear	Prof. P. Spina.
San Luis Potosi	24.22	615.3	30.14	765.6	57.7	14.3	57	w.			1		10		w.	0	0	covered	G. Barroeta, M. D.
Vera Cruz																			
Zacatecas	22.55	572.8	30.25	768.3	48.0	9.0	57	wsw.	13.4	6.0		0	0			0	0	fine	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.42	772.7	30.42	772.7	53.6	12.0		wsw.			4					0	0		
Groningen	30.30	769.6	30.35	771.0	48.7	9.3		ssw.			1					0	0		
Helder	30.34	770.5	30.34	770.5	47.8	8.8		ssw.			4					0	0		
Hellevoetsluis	30.40	772.2	30.40	772.2	52.2	11.2	85	wsw.			3					0	0		
Utrecht	30.37	771.3	30.41	772.5	53.2	11.8	86	sw.			3		8			0	0	very cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.80	757.0	29.87	758.6	44.6	7.0	71	sse.	27	12			10			0.217	5.5	raining	
Brono	29.62	752.3	29.66	753.3	37.8	3.2	73	calm	0	0			2			0.205	5.2		
Christiania	29.82	757.5	29.97	761.3	42.1	5.6	46	wsw.	7	3			10			0.004	0.1		
Gjæsvær	29.28	743.8	29.31	744.4	28.4	— 2.0		w.			7		10						
Lodingen	29.44	747.7	29.48	748.9	23.9	— 4.5	98	calm			0		10			0.959	1.5	snowing	
PORTUGUESE.																			
Angra, Azores					60.8	16.0	93	sw.	20.6	9.2			8			0.146	3.7		Dr. J. A. Sampaio.
Campo Major	29.37	746.1	30.36	771.2	70.5	21.4	39	e.	2.5	1.1			0			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.23	767.9	30.32	770.1	64.4	18.0	62	sw.	2.5	1.1			0			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.87	758.6	30.23	767.8	63.1	17.3	55	ne.	10.5	4.7			0			0	0		The Staff.
Ponta Delgada, Azores	30.24	768.1	30.31	769.9	68.0	20.0	72	s.	5.6	2.5			4			0	0		
Saint Paul de Loando	29.65	753.2	29.85	758.2	85.1	29.5	78	wsw.	0.7	0.3			3	nne.		0	0		
Serra da Estrella	25.63	651.0	30.37	771.5	52.9	11.6	42	ese.	11.9	5.3			0			0	0		
RUSSIAN.																			
Akmolinski	28.72	729.5	29.86	758.4	22.5	— 5.3	93	sw.	31	14			10 n			0	0		Major K. Lasarew.
Archangel	29.42	747 3	29.44	747.8	18.7	— 7.4	86	wnw.	13	6			10			0	0		Capt. Sselliwerstow.
Astrakhan	30.25	768.3	30.17	766.2	39.4	4.1	56	sw.	7	3			10 8			0	0		Capt. Wisganow.
Barnaul	29.67	753.5	30.20	767.0	26.2	— 3.2	61	sw.	4	2			8			0	0	light clouds	Meteorological Obs'y.
Dorpat	29.24	742.7	29.49	749 0	33.8	1.0	96	n.	11	5			10 n			0.126	3.2		Observatory.
Ekaterinburg	28.25	717.5	29.24	742.8	22.1	— 5.5	90	wsw.	27	12			10			0.067	1.7	snowing	Meteorological Obs'y.
Kasan	29.32	744.7	29.60	751.9	22.8	— 5.1	63	sw.	11	5			10			0.028	0.7		Observatory.
Kertch	30.11	764.9	30.13	765.4	43.9	6.6	61	ssw.	13	6			10 n			0	0		Lagorio & Sastyrex.
Kieff	29.13	739.8	29.76	756.0	48.0	8.9	83	w.	13	6		c	10ks;n			0.039	1.0		Observatory.
Lugan	29.74	755.3	29.95	760.6	38.1	3.4	65	sw.	22	10			10			0.197	5.0		Meteorological Obs'y
Moscow	28.84	732.5	29.33	744.9	33.8	1.0	87	wsw.	4	2			10 8			0.213	5.4	snowing	Meteorological Obs'y.
Nikolaiev	30.00	761.9	30.07	763.7	47.3	8.5	92	wsw.	13	6			10 n			0.031	0.8		Capt. Kurdakow.
Nikolaievsk, on the Amoor																0.031	0.8		Lieut. Iwanow.
Pekin, China	29.94	760.4	30.08	764.0	45.5	7.5	43	calm	0	0		0	0			0	0		Physical Observatory.
St. Petersburg	29.47	748.6	29.49	749.0	30.2	— 1.0	78	ene.	9	4			10 kn			0	0		Central Physical Obs'y.
Tashkend, Laboratory	28.61	726.8	30.21	767.2	51.8	11.0	57	nw.	2	1			0			0	0		Teich, A. M.
Tiflis	28.72	729.5	30.16	766.0	51.6	10.9	49	n.	13	6		10 cs	0			0.043	1.1		Physical Observatory.
Vladivostok	30.01	762.3	30.08	764.0	26.1	— 3.3	99	sw.	4	2			10 k			0	0		
Warsaw	29.64	752.8	30.07	763.7	48.7	9.3	52	wnw.	34	15		0	6 ks						Astronomical Obs'y.
Wilna	29.16	740.6	29.58	751.4	39.9	4.4	89	nw.	9	4			10			0.118	3.0	heavy clouds	Berg, Assistant.
Yeniseisk	29.91	759.7	30.22	767.5	23.2	— 4.9	84	w.	4	2			6			0.051	1.3		M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	30.28	769.1	30.39	771.8	64.4	18.	50	s.	4.0	1.8			0			0	0	clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.38	771.7	30.44	773.2	66.6	19.2	57	sw.	2.5	1.1		0	0			0	0	clear	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.46	697.5	30.43	773.0	60.8	16.0	41	n.	2.7	1.2		0	0			0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	28.17	715.6	30.39	771.8	66.4	19.1	41	calm	1.8	0 8		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y	30.26	768.6	30.41	772.4	68.0	20.0	45	sse.	2.5	1.1		0	0			0	0	clear	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.49	749.0	30.38	771.7	64.6	18.1	67	calm	0	0			0			0.004	0.1	clear	R. Gil Vallanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I	30.10	764.4	30.16	766.1	70.5	21.4	79	ese.	4.3	1.9		1 c	0			0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.87	758.7	29.93	760.2	81.1	27.3	70	sw.	10.6	4.7		0	3 kn		ene.	0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.28	769.0	30.38	771.6	68.2	20.1	34	ese.	12.7	5.7		0	0			0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	30.10	764.5	30.19	766.8	75.2	24.0	77	e.	15.0	6.7			10 kn	e.	e.	0.098	2.5	raining	Manuel Maeu.
Tuguegarao, Philippine Id's	29.84	757.9	29.97	761.2	74.0	23.3	88	nw.	7.8	3.5			9 ks		nnw.	0.24	6.1	covered	José L. Yrastorza.
SWEDISH.																			
Haparanda	29.56	750.8	29.60	751.8	15.4	— 9.2	81	n.			2		10			0	0		
Umea	29.51	749.6	29.56	750.9	42.8	6.0	65	nw.			4		1			0	0		
Hernosand	29.65	753.0	29.70	754.3	45.9	7.7	54	nnw.			4		0			0.079	2.0		
Stockholm	29.68	753.8	29.85	758.3	44.6	7.0	45	wnw.			4		1			0.484	12.3		
Wisby	29.82	757.3	29.87	758.8	39.9	4.4	74	nnw.			7		3			0.051	1.3		
Sub-series.																			
Upsala	29.73	755.2	29.82	757.4	45.3	7.4	47	nw.	14.8	6.6			2			0.114	2.9		S. G. Fineman.
SWISS.																			
Geneva	29.02	737.2	30.45	773.5	53.6	12.0	56	ene.			1					0	0	clear	The Observatory.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
TURKISH.																			
Constantinople	.....	.....	30.24	768.0	45.3	7.4	57	ne.	19	8.5	.....	.....	2	.....	ne.	0	0	.....	The Observatory.
Valona	.....	.....	30.17	766.4	65.3	18.5	.....	sw.	.....	.....	1	.....	2	.....	.....	0	0	slightly cl'dy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	30.01	762.2	66.6	19.2	60	wsw	.....	.....	1	0	7 s	.....	sw.	0	0	.....	Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	30.35	770.9	30.44	773.2	36	2.2	69	s.	12	5.4	.....	.....	10 s	.....	s.	0	0	cloudy	J. O. Barnes.
Alpena, Michigan	29.40	746.7	30.10	764.5	29	— 1.7	88	e.	7	3.1	.....	.....	10 n	.....	.....	0.22	5.6	light snow	Jas. J. Fitzgerald.
Atlanta, Georgia	28.99	736.3	30.20	767.1	40.5	4.7	94	e.	17	7.6	.....	.....	fg.	.....	.....	0.03	0.8	dense fog	H. Hall.
Atlantic City, New Jersey	30.44	773.2	30.44	773.2	36.8	2.7	83	e.	16	7.2	.....	.....	10 n	.....	.....	0.04	1.0	light rain	Jas. M. Watson.
Augusta, Georgia	30.14	765.5	30.34	770.6	45.8	7.7	93	ne.	5	2.2	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	John Healy.
Baltimore, Maryland	30.37	771.4	30.42	772.7	36	2.2	89	e.	7	3.1	.....	.....	10;fog	.....	se.	0.19	4.8	light rain	Robert Seyboth.
Barnegat, New Jersey	30.45	773.4	30.47	773.9	37.0	2.8	89	se.	22	9.8	.....	.....	10 n	.....	se.	0.02	0.5	light rain	Chas. F. Merritt.
Bismarck, Dakota	28.22	716.8	30.14	765.5	7	—13.9	80	calm	0	0	.....	10 cs	0	.....	.....	0	0	cloudy	Cyrus Cramer.
Boise City, Idaho	27.20	690.9	30.12	765.0	21	— 6.1	88	se.	2	0.9	.....	0	4 s	.....	calm	0.08	2.0	fair	B. E. Light.
Boston, Massachusetts	30.38	771.6	30.54	775.7	29.0	— 1.7	77	s.	6	2.7	.....	hz.	hz.	.....	.....	0	0	dense haze	O. B. Cole.
Brownsville, Texas	30.15	765.8	30.20	767.1	53	11.7	86	n.	7	3.1	.....	10 cs	0	.....	.....	inap.	inap.	cloudy	J. C. Galloway.
Buffalo, New York	29.33	745.0	30.12	765.0	36.5	2.5	84	se.	5	2.2	.....	.....	10;fog	.....	.....	0.05	1.3	light rain	Wm. Finn.
Burlington, Vermont	30.07	763.8	30.38	771.6	27.3	— 2.6	48	s.	10	4.5	.....	9 ck	0	w.	.....	0	0	cloudy	G. C. Schaeffer.
Cairo, Illinois	29.29	744.0	29.71	754.6	56.6	13.7	99	se.	7	3.1	.....	.....	10 n	.....	se.	1.84	46.7	light rain	W. H. Ray.
Campo, California	27.49	698.2	30.10	764.5	37.4	3.0	92	sw.	1	0.4	.....	.....	10 ks	.....	w.	0.06	1.5	cloudy	W. H. Clendenon.
Camp Thomas, Arizona	27.31	693.7	30.09	764.3	25.5	— 3.6	82	calm	.....	.....	0	0	0	.....	.....	0	0	clear	J. T. Fitzgerald.
Cape Henry, Virginia	30.32	770.1	30.34	770.6	46	7.8	93	e.	26	11.6	.....	.....	10 n	.....	.....	0.18	4.6	light rain	J. E. Lanouette.
Cape May, New Jersey	30.39	771.9	30.42	772.7	41	5.0	73	e.	24	10.7	.....	.....	10 n	.....	e.	0.01	0.3	light rain	W. Bolten.
Castroville, Texas	29.27	743.4	30.10	764.5	33	0.6	88	calm	0	0	.....	0	0	.....	.....	0.09	2.3	clear	T. Jones.
Cedar Keys, Florida	30.19	766.8	30.21	767.3	69	20.6	78	se.	20	8.9	.....	0	1 k	.....	.....	0	0	clear	F. W. Mixer.
Champaign, Illinois	28.96	735.6	29.82	757.4	39.0	3.9	89	ne.	18	8.0	.....	.....	10 n	.....	ne.	0.57	14.5	heavy rain	L. A. Welsh.
Charleston, S. Carolina	30.23	767.8	30.29	769.4	52	11.1	93	nw.	2	0.9	.....	.....	10s;fg	.....	calm	0.06	1.5	threatening	J. H. Smith.
Charlotte, N. Carolina	29.41	747.0	30.29	769.4	36.0	2.2	89	ne.	5	2.2	.....	.....	10s;fg	.....	ne.	0.89	22.6	cloudy	D. O. Donoghue.
Chattanooga, Tennessee	29.25	742.9	30.10	764.5	47.5	8.6	88	s.	12	5.4	.....	.....	10 n	.....	s.	0.90	22.9	light rain	B. L. Goulding.
Cheyenne, Wyoming	23.86	606.0	30.04	763.0	15.5	— 9.2	55	nw.	5	2.2	.....	0	3 s	.....	.....	0	0	clear	E. McGovern.
Chicago, Illinois	29.16	740.7	29.90	759 4	34.6	1.4	98	ne.	12	5.4	.....	.....	10 n	.....	.....	0.41	10.4	heavy rain	J. Mitchell.
Chincoteague, Virginia	30.36	771.1	30.38	771.6	42	5.6	100	se.	17	7.6	.....	.....	10 n	.....	e.	0.15	3.8	light rain	F. C. Pratz.
Cincinnati, Ohio	29.20	741.7	29.90	759.4	54	12.2	86	se.	9	4.0	.....	.....	10 n	.....	s.	0.59	15.0	light rain	R. B. Watkins.
Cleveland, Ohio	29.18	741.2	29.96	761.0	40.4	4.7	94	se.	20	8.9	.....	.....	10 n	.....	.....	0.11	2.8	light rain	J. B. Newlin.
Coleman City, Texas	28.23	717.0	30.08	764.0	34	1.1	81	n.	7	3.1	.....	0	0	.....	.....	0.17	4.3	clear	L. Dorman.
Columbus, Ohio	29.04	737.6	29.94	760.5	46	7.8	83	se.	8	3.6	.....	.....	10 n	.....	se.	0.40	10.2	light rain	D. Cuthbertson.
Concho, Texas	28.11	714.0	30.08	764.0	33	0.6	81	w.	4	1.8	.....	0	0	.....	.....	0.02	0.5	clear	W. W. McConihe.
Davenport, Iowa	29.15	740.4	29.84	757.9	35	1.7	69	ne.	12	5.4	.....	.....	10 s	.....	ne.	0.08	2.0	cloudy	R. R. Martin.
Dayton, Washington T'y	28.31	719.1	30.12	765.0	26.7	— 2.9	93	calm	0	0	.....	0	9 k	.....	sw.	0.38	9.7	cloudy	H. Clifford.
Deadwood, Dakota	25.28	642.1	30.12	765.0	20	— 6.7	76	ne.	8	3.6	.....	.....	10 n	.....	.....	0.03	0.8	light snow	G. W. Scott.
Decatur, Texas	.....	.....	.....	.....	32	0.0	88	nw.	3	1.3	.....	0	5 s	.....	nw.	0.24	6.1	fair	D. J. Carr.
Delaware Breakwater, Del.	30.38	771.6	30.40	772.1	39	3.9	100	se.	30	13.4	.....	.....	10 n	.....	se.	0.05	1.3	light rain	A. Schneider.
Denison, Texas	29.21	741.9	30.04	763.0	33.4	0.8	88	w.	9	4.0	.....	.....	10 n	.....	.....	0.49	12.4	light rain	J. McGlone.
Denver, Colorado	24.59	624.6	30.03	762.7	21.6	— 5.8	70	s.	4	1.8	.....	0	0	.....	.....	0	0	clear	F. M. Neal.
Des Moines, Iowa	28.96	735.6	29.92	760.0	30	— 1.1	77	ne.	16	7.2	.....	.....	10 n	.....	ne.	0.15	3.8	heavy snow	F. W. Conrad.
Detroit, Michigan	29.22	742.2	29.97	761.2	37.0	2.8	100	ne.	13	5.8	.....	.....	10n;fog	.....	calm	0.26	6.6	heavy rain	C. F. R. Wappenhans.
Dodge City, Kansas	27.30	693.4	30.03	762.7	23	— 5.0	73	nw.	12	5.4	.....	0	0	.....	.....	0.19	4.8	clear	E. A. Thomas.
Dubuque, Iowa	29.19	741.4	29.94	760.5	28.8	— 1.8	92	ne.	10	4.5	.....	.....	10 n	.....	calm	0.22	5.6	light snow	J. Harvey Smith.
Duluth, Minnesota	29.42	747.3	30.16	766.1	25	— 3.9	88	nw.	5	2.2	.....	.....	10 s	.....	calm	inap.	inap.	cloudy	N. B. Conger.
Eagle Pass, Texas	29.40	746.7	30.22	767.6	30.6	— 0.8	78	sw.	5	2.2	.....	0	0	.....	.....	0	0	clear	F. Belford.
Eagle Rock, Idaho	25.26	641.6	30.13	765.3	6	—14.4	80	n.	2	0.9	.....	.....	10 s	.....	.....	0.04	1.0	cloudy	J. M. Clifford.
Eastport, Maine	30.48	774.2	30.55	776.0	19	— 7.2	76	w.	5	2.2	.....	0	0	.....	.....	0	0	clear	J. H. Melton.
El Paso, Texas	26.29	667.8	30.09	764.3	31	— 0.6	41	w.	7	3.1	.....	0	0	.....	.....	0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.22	742.2	29.99	761.7	38	3.3	89	s.	16	7.2	.....	.....	10 n	.....	sw.	0.15	3.8	light rain	R. H. Paxton.
Escanaba, Michigan	29.44	747.8	30.16	766.1	21	— 6.1	84	n.	15	6.7	.....	.....	10 s	.....	n.	0.07	1.8	cloudy	C. Dill.
Florence, Arizona	28.56	725.4	30.13	765.3	31.0	— 0.6	60	nw.	3	1.3	.....	0	0	.....	.....	0	0	clear	R. R. Herman.
Fort Apache, Arizona	25.03	635.8	30.05	763.3	18	— 7.8	61	ne.	2	0.9	.....	0	0	.....	.....	0	0	clear	W. C. Barnes.
Fort Assinnaboine, Montana	27.36	694.9	30.37	771.4	19	— 7.2	58	ne.	8	3.6	.....	.....	10 s	.....	.....	0.03	0.8	cloudy	B. O. Lenoir.
Fort Bennett, Dakota	28.41	721.6	30.11	764.8	10	—12.2	61	calm	0	0	.....	10 ck	0	w.	.....	0	0	cloudy	T. Gibson.
Fort Benton, Montana	27.36	694.9	30.34	770.6	20	— 6.7	73	ne.	10	4.5	.....	.....	10 s	.....	ne.	0.09	2.3	cloudy	S. Wheaton.
Fort Buford, Dakota	28.15	715.0	30.29	769.4	12	—11.1	64	w.	11	4.9	.....	.....	10 s	.....	calm	0	0	cloudy	A. H. Bell.
Fort Custer, Montana	26.90	683.2	30.23	767.8	19	— 7.2	70	n.	14	6.3	.....	.....	10 s	.....	calm	inap.	inap.	cloudy	V. Verge.
Fort Davis, Texas	25.14	638.5	30.02	762.5	25	— 3.9	58	s.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. Williams.
Fort Elliott, Texas	27.15	689.6	29.98	761.5	23	— 5.0	39	nw.	6	2.7	.....	0	0	.....	.....	0.18	4.6	clear	W. J. Cundall.
Fort Gibson, Indian T'y	29.32	744 7	29.91	759.7	35.0	1.7	89	w.	12	5.4	.....	.....	10 n	.....	.....	0.94	23.9	heavy snow	J. B. Campbell.
Fort Grant, Arizona	25.24	641.1	30.07	763.8	25	— 3.9	46	sw.	2	0.9	.....	0	0	.....	.....	0	0	clear	T. J. Macgowan.
Fort Griffin, Texas	28.76	730.5	30.11	764.8	27	— 2.8	77	sw.	2	0.9	.....	0	0	.....	.....	0.23	5.8	clear	G. H. Hayne.
Fort Keogh, Montana	27.63	701.8	30.28	769.1	14	—10.0	66	n.	7	3.1	.....	10 cs	0	.....	.....	0	0	cloudy	W. B. Stockman.
Fort Macon, North Carolina	30.28	769.1	30.29	769.4	59	15.0	100	s.	19	8.5	.....	.....	10 n	.....	calm	0.51	13.0	light rain	L. Leonardy.
Fort McKavett, Texas	27.83	706.9	30.15	765.8	33.2	0.7	88	sw.	7	3.1	.....	0	0	.....	.....	0	0	clear	J. E. Thatcher.
Fort Missoula, Montana	26.69	677.9	30.07	763.8	24	— 4.4	88	nw.	6	2.7	.....	.....	10 n	.....	.....	0.09	2.3	light snow	J. H. Jones.
Fort St. Michaels, Alaska	29.83	757.7	29.86	758.4	29	— 1.7	100	se.	11	4.9	.....	.....	10 s	.....	se.	0	0	cloudy	A. P. Leavitt.
Fort Shaw, Montana	26.46	672.1	30.26	768.6	18	— 7.8	87	ne.	8	3.6	.....	.....	10 s	.....	.....	0.01	0.3	cloudy	A. L. Mathews.
Fort Sill, Indian Territory	28.76	730.5	30.05	763.3	25.7	— 3.5	89	calm	0	0	.....	0	0	.....	.....	0.47	11.9	clear	T. Cleary.
Fort Stevenson, Dakota	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. Burrows.
Fort Verde, Arizona	.....	.....	.....	.....	30.1	— 1.1	41	n.	.....	.....	1	0	0	.....	.....	0	0	clear	D. Brooks.
Fort Washakie, Wyoming	24.32	617.7	.....	.....	12.1	—11.1	70	nw.	3	1.3	.....	0	0	.....	.....	inap.	inap.	clear	T. M. Ambler.
Fredericksburg, Texas	28.30	718.8	30.06	763.5	36	2.2	82	nw.	5	2.2	.....	0	0	.....	.....	0.15	3.8	clear	H. S. Miles.
Galveston, Texas	30.07	763.8	30.11	764.8	45	7.2	76	n.	15	6.7	.....	5 ck	0	ne.	.....	0.48	12.2	fair	E. O'C. MacInerney.
Grand Haven, Michigan	29.29	744.0	29.99	761.7	31.5	— 0.3	94	ne.	10	4.5	.....	.....	10 n	.....	.....	0.19	4.8	heavy snow	W. A. Reid.
Hatteras, North Carolina	30.31	769.9	30.33	770.4	56	13.3	93	se.	19	8.5	.....	.....	9 s	.....	sw.	0.61	15.5	threatening	R. M. Crawford.
Helena, Montana	25.78	654.8	30.15	765.8	21	— 6.1	73	ne.	6	2.7	.....	.....	10 s	.....	.....	0.02	0.5	cloudy	N. C. Smith.
Henrietta, Texas	29.10	739.1	30.14	765.5	26	— 3.3	100	calm	0	0	.....	0	0	.....	.....	0.69	17.5	clear	J. W. Byram.
Huron, Dakota	28.64	727.4	30.12	765.0	18.8	— 7.3	58	se.	4	1.8	.....	0	0	.....	.....	0	0	clear	S. W. Glenn.
Indianapolis, Indiana	28.93	734.8	29.77	756.1	48	8.9	89	se.	5	2.2	.....	.....	10 n	.....	se.	0.47	11.9	light rain	O. Schutze
Indianola, Texas	30.11	764.8	30.14	765.5	43.0	6.1	74	n.	13	5.8	.....	0	0	.....	.....	0.02	0.5	clear	I. A. Reed.
Jacksboro, Texas	28.91	734.3	30.12	765.0	32	0.0	78	nw.	.....	.....	1	0	0	.....	.....	0.21	5.3	clear	J. P. Sherry.
Jacksonville, Florida	30.21	767.3	30.26	768.6	63	17.2	93	ne.	3	1.3	.....	.....	fg.	.....	.....	0	0	dense fog	J. W. Smith.
Keokuk, Iowa	28.98	736.1	29.67	753.6	34.5	1.4	89	ne.	19	8.5	.....	.....	10 s	.....	ne.	0.61	15.5	cloudy	F. Z. Gosewisch
Key West, Florida	30.17	766.3	30.19	766.8	72.5	22.5	73	e.	9	4.0	.....	0	5 k;ks	.....	se.	0	0	fair	L. M. Melbourne.
Kittyhawk, North Carolina	30.32	770.1	30.34	770.6	51	10.6	93	se.	20	8.9	.....	.....	10 n	.....	se.	0.12	3.0	light rain	E. A. Beals.
Knoxville, Tennessee	29.02	737.1	30.08	764.0	46.1	7.8	89	ne.	3	1.3	.....	3 c	4 s	w.	sw.	0.60	15.2	fair	J. A. Cody.
La Crosse, Wisconsin	29.21	741.9	30.03	762.7	28	— 2.2	88	n.	8	3.6	.....	.....	10 s	.....	.....	0.11	2.8	cloudy	S. C. Emery.
La Mesilla, New Mexico	26.11	663.2	30.06	763.5	23.3	— 4.8	62	calm	0	0	.....	0	0	.....	.....	0	0	clear	N. D. Lane.
Leavenworth, Kansas	28.97	735.8	29.91	759.7	33	0.6	88	w.	14	6.3	.....	.....	10 n	.....	.....	0.44	11.2	sleeting	A. W. Browne.
Lewiston, Idaho	29.29	744.0	30.15	765.8	29	— 1.7	51	e.	1	0.4	.....	.....	10 s	.....	calm	0.04	1.0	cloudy	W. Blake.
Little Rock, Arkansas	29.47	748.5	29.80	756.9	49	9.4	86	sw.	16	7.2	.....	.....	10 s	.....	sw.	1.00	25.4	cloudy	M. F. Burrows.
Los Angeles, California	29.81	757.2	30.21	767.3	47.1	8.4	63	ne.	4	1.8	.....	0	0	.....	.....	0	0	clear	E. F. Kubel.
Louisville, Kentucky	29.23	742.4	29.82	757.4	55	12.8	93	s.	11	4.9	.....	.....	10 n	.....	s.	1.10	27.9	light rain	H. C. Smith.
Lynchburg, Virginia	29.65	753.1	30.37	771.4	36.0	2.2	89	ne.	2	0.9	.....	.....	10 n	.....	.....	0.57	14.5	light rain	T. H. Breen.
Madison, Wisconsin	28.90	734.0	29.97	761.2	27	— 2.8	88	ne.	16	7.2	.....	.....	10 s	.....	calm	0.26	6.6	cloudy	C. A. Shaw.
Marquette, Michigan	29.41	747.0	30.18	766.6	16	— 8.9	83	w.	6	2.7	.....	.....	10 s	.....	nw.	0.02	0.5	cloudy	I. Gilligan.
Mason, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	A. M. Wilson.
Memphis, Tennessee	29.39	746.5	29.74	755.4	64	17.8	100	sw.	11	4.9	.....	.....	10 s	.....	sw.	2.60	66.0	cloudy	D. T. Flannery.

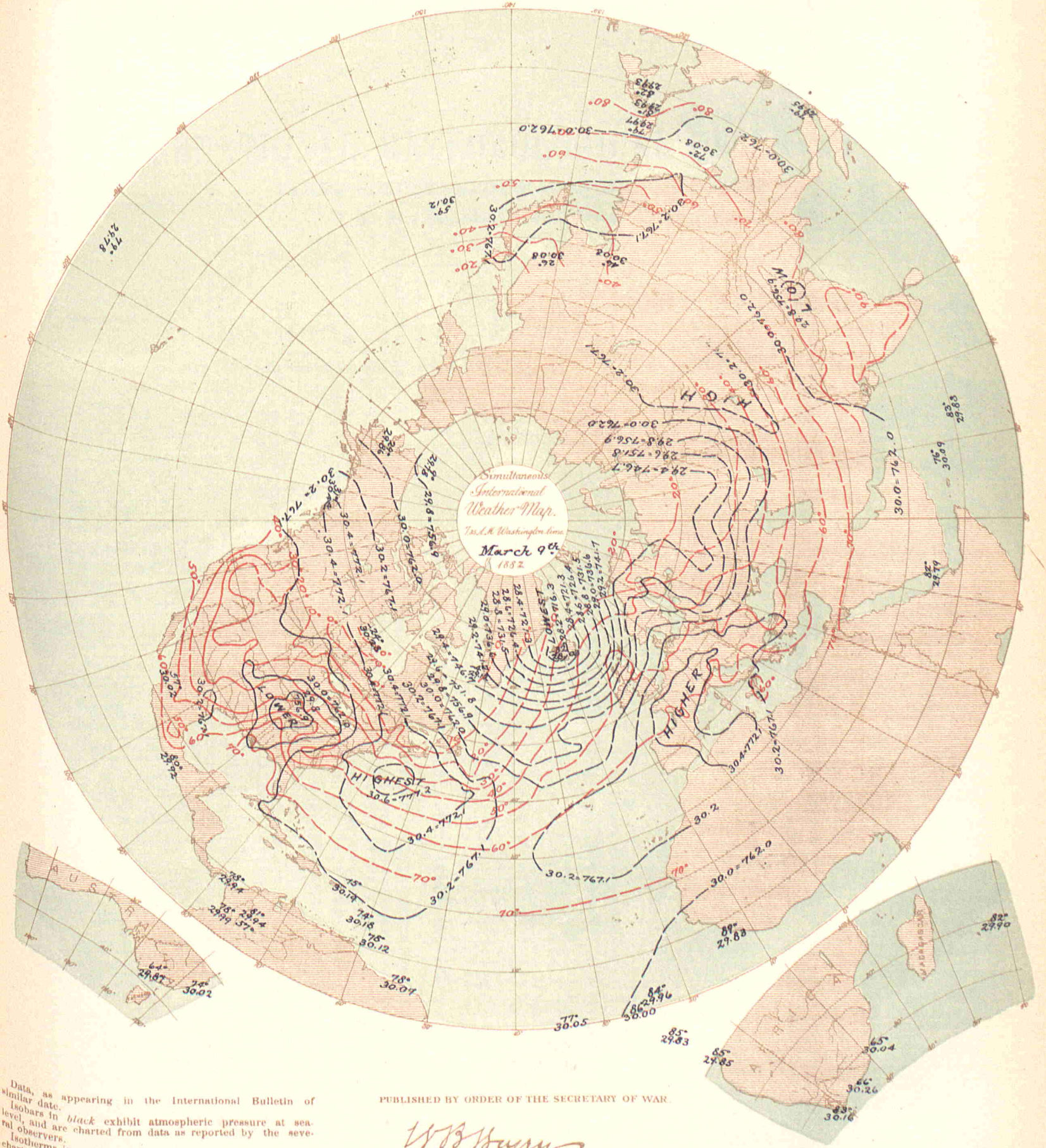
STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–01	0–10	0–10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Milwaukee, Wisconsin	29.17	740.9	29.96	761.0	33	0.6	88	ne.	14	6.3			10 s		ne.	0.09	2.3	threatening.	W. Line.
Mobile, Alabama	29.95	760.7	29.99	761.7	69	20.6	90	s.	14	6.3		3 c;k	3 ks	s.	s.	0.18	4.6	fair	J. B. McLaughlin.
Montgomery, Alabama	29.80	756.9	30.04	763.0	63	17.2	90	se.	9	4.0		3 cs;hs	4 ks		s.	inap.	inap.	cloudy	H. Bessant.
Moorhead, Minnesota	29.08	738.6	30.16	766.1	7.2	—13.8	76	sw.	5	2.2			10 s			0.28	7.1	light rain	J. Sprigg, jr.
Morgantown, W. Virginia	29.02	737.1	30.08	764.0	49.5	9.7	88	s.	8	3.6			10 n			0.28	7.1	light rain	J. G. Linsley.
Mt. Washington, N. H.	23.88	606.5	30.40	772.1	17.0	— 8.3	58	w.	48	21.5		0	9 s		w.	0	0	cloudy	J. G. Linsley.
Nashville, Tennessee	29.31	744.5	29.87	758.7	54.3	12.4	88	se.	10	4.5			10 n		se.	2.54	64.5	light rain	L. A. Jesunofsky.
New Haven, Connecticut	30.41	772.4	30.53	775.4	33	0.6	68	s.	7	3.1			10 s		s.	0	0	cloudy	J. H. Sherman.
New London, Connecticut	30.54	775.7	30.59	777.0	34	1.1	60	s.	16	7.2		0	4 ks		s.	0	0	fair	J. G. Lynch.
New Orleans, Louisiana	29.88	758.9	29.94	760.5	72.9	22.7	84	s.	12	5.4			10 s		s.	0	0	threatening.	A. J. Armstrong.
Newport, Rhode Island	30.52	775.2	30.57	776.5	32.8	0.4	75	s.	9	4.0		7 cs	2 ks	calm	w.	0	0	cloudy	W. McGillivray.
New River, N. Carolina					59	15.0	93	s.			2		10 s			0	0	cloudy	C. C. Corbin.
New Shoreham, Rhode I'd.	30.54	775.7	30.57	776.5	34.0	1.1	71	se.	10	4.5		7 ck	0	sw.		0	0	fair	W. Davis.
New York, New York	30.35	770.9	30.53	775.4	33.5	0.8	88	s.	4	1.8			10 n			inap.	inap.	light snow	E. B. Garriott.
Norfolk, Virginia	30.31	769.9	30.34	770.6	47	8.3	100	se.	9	4.0			10 n			0.14	3.6	light rain	J. T. Elker.
North Platte, Nebraska	27.00	685.8	30.06	763.5	16.6	— 8.6	72	nw.	6	2.7		0	0			0	0	clear	E. F. Brady.
Olympia, Washington T'y	30.10	764.5	30.14	765.5	35.0	1.7	94	s.	3	1.3			10 s		calm	0.05	1.3	cloudy	J. Dascomb.
Omaha, Nebraska	28.74	730.0	30.00	762.0	30.0	— 1.1	80	n.	23	10.3			10 s			inap.	inap.	cloudy	A. Pollak.
Ooglaamie, Pt. Barrow, Alas.	29.76	755.9	29.78	756.4	9.3	—12.6	92	sse.	16	7.2		0	5 s			0	0	fair	P. H. Ray.
Oswego, New York	29.89	759.2	30.23	767.8	35.5	1.9	58	s.	7	3.1			10 s		s.	0	0	cloudy	S. W. Beall.
Palestine, Texas	29.52	749.8	30.09	764.3	35	1.7	79	nw.	4	1.8		0	0			0	0	clear	L. M. Pindell.
Pensacola, Florida	30.02	762.5	30.05	763.3	70.0	21.1	93	se.	20	8.9			10 s		s.	inap.	inap.	cloudy	M. McGauran.
Philadelphia, Pa.	30.37	771.4	30.47	773.9	36	2.2	79	e.	8	3.6			10 n		e.	0.04	1.0	light rain	T. F. Townsend.
Pike's Peak, Colorado	17.37	441.2	29.96	761.0	— 2.5	—19.2	79	w.	12	5.4		0	0			0	0	clear	L. M. Dey.
Pioche, Nevada	23.88	606.5	30.02	762.5	23	— 5.0	56	sw.	6	2.7		2 k	0	calm		0	0	clear	C. K. Kitchel.
Pittsburg, Pennsylvania	29.22	742.2	30.07	763.8	42.3	5.7	83	se.	8	3.6			10 n		se.	0.22	5.6	light rain	J. H. Bryce.
Port Eads, Louisiana	30.00	762.0	30.01	762.2	69.1	20.6	90	s.	20	8.9		0	8 s		s.	0	0	cloudy	H. G. Christian.
Port Huron, Michigan	29.27	743.4	29.99	761.7	32.0	0.0	100	ne.	7	3.1			10 n			0.26	6.6	light rain	W. O. Bailey.
Portland, Maine	30.47	773.9	30.52	775.2	24.0	— 4.4	73	sw.	4	1.8		8 cs	hz.	w.	calm	0	0	cloudy	D. C. Murphy.
Portland, Oregon	30.06	763.5	30.13	765.3	36.0	2.2	89	calm	0				10 n			0.19	4.8	hailing	M. L. Hearne.
Portsmouth, N. Carolina					58	14.4	86	s.	26	11.6			10 ks		se.	0.52	13.2	cloudy	F. P. Chaffee.
Prescott, Arizona	24.67	626.6	30.01	762.2	28	— 2.2	70	s.	6	2.7		0	0			0	0	clear	J. Mc N. Wright.
Provincetown, Mass.	30.54	775.7	30.57	776.5	32	0.0	78	s.	11	4.9		3 cs	3 s	sw.		0	0	fair	P. T. Jenkins.
Punta Rassa, Florida	30.18	766.6	30.19	766.8	65.5	18.6	84	e.	8	3.6		2 ck	0	e.		0	0	clear	W. J. Evans.
Red Bluff, California	29.71	754.6	30.09	764.3	37.0	2.8	75	calm	0			1 k	0			0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.98	761.5	30.22	767.6	47	8.3	56	w.	3	1.3		0	0			0	0	clear	W. H. Taylor.
Rochester, New York	29.46	748.3	30.16	766.1	34	1.1	79	s.	13	5.8			10 n		s.	inap.	inap.	light rain	A. T. Sherwood.
Roseburg, Oregon	29.55	750.6	30.11	764.8	33.4	0.8	87	e.	1	0.4			10 s			0.06	1.5	threatening.	J. J. Nanry.
Sacramento, California	30.04	763.0	30.12	765.0	37.2	2.9	82	s.	5	2.2		cs	0	w.		0	0	cloudy	J. A. Barwick.
St. Louis, Missouri	29.09	738.9	29.72	754.9	41.9	5.5	92	ne.	9	4.0			10 s		ne.	0.68	17.3	threatening.	J. H. Webber.
St. Paul, Minnesota	29.17	740.9	30.09	764.3	28.0	— 2.2	88	ne.	3	1.3			10 s			0.12	3.0	cloudy	O. S. M. Cone.
St. Vincent, Minnesota	29.21	741.9	30.15	765.8	6	—14.4	100	s.	3	1.3		0	8 k		s.	0	0	cloudy	G. Kingsbury.
Salt Lake City, Utah	25.50	647.7	30.02	762.5	25	— 3.9	64	calm	0				10 n			inap.	inap.	light snow	J. Craig.
San Antonio, Texas	29.39	746.5	30.10	764.5	32.7	0.4	100	n.	2	0.9		0	0			0.29	7.4	clear	E. Lane.
San Diego, California	30.07	763.8	30.14	765.5	49.3	9.6	88	se.	6	2.7			10 n			0.03	0.8	light rain	A. C. Dobbins.
Sandusky, Ohio	29.19	741.4	29.91	759.7	44.2	6.8	83	s.	11	4.9			10 n			0.03	0.8	light rain	M. H. Perry.
Sandy Hook, New Jersey	30.49	774.4	30.53	775.4	35.0	1.7	79	se.	10	4.5			10 n			0.08	2.0	light snow	B. A. Blundon.
San Francisco, California	30.10	764.5	30.17	766.3	43	6.1	60	w.	4	1.8			10 n		calm	0.01	0.3	light snow	N. Gorom.
Santa Fé, New Mexico	23.05	585.5	30.03	762.7	20	— 6.7	44	n.	8	3.6		0	0			0	0	clear	H. N. Jones.
Savannah, Georgia	30.20	767.1	30.29	769.4	53	11.7	83	n.	4	1.8		1 k	0			0	0	clear	H. M. Ford.
Shreveport, Louisiana	29.78	756.4	30.03	762.7	41	5.0	82	w.	14	6.3			fg.			inap.	inap.	dense fog	E. N. Meekins.
Silver City, New Mexico	24.20	614.7	29.98	761.5	18	— 7.8	73	nw.	1	0.4			10 s		w.	1.03	26.2	cloudy	J. B. Wallace.
Sitka, Alaska	30.38	771.6	30.44	773.2	30.5	— 0.8	60	e.	3	1.3		0	0			0	0	clear	J. J. McLean.
Smithville, North Carolina	30.24	768.1	30.28	769.1	58	14.4	93	sw.	3	1.3		0	0			0	0	clear	J. C. Rickli.
Spokane Falls, Wash. Ter.	28.03	711.9	30.16	766.1	28	— 2.2	77	w.	1	0.4		3 cs	2 s		sw.	0.45	11.4	fair	D. Moore.
Springfield, Illinois	29.03	737.3	29.75	755.6	42	5.6	82	e.	10	4.5			10 s			0.02	0.5	cloudy	T. B. Jennings.
Springfield, Massachusetts	30.40	772.1	30.54	775.7	28.1	— 2.2	80	calm	0			10 cs	0		e.	0.78	19.8	cloudy	T. S. Outram.
Springfield, Mo.	28.20	716.3	29.76	755.9	41	5.0	92	sw.	9	4.0			10 n			0	0	light rain	J. B. Marbury.
Stockton, Texas	27.00	685.8	30.08	764.0	28.5	— 1.9	100	sw.	4	1.8		0	0			0.79	20.1	light rain	J. O'Dowd.
Thatcher's Island, Mass.	30.50	774.7	30.56	776.2	35.0	1.7	69	sw.	11	4.9		5 cs	0			0	0	clear	G. Liebmann.
Toledo, Ohio	29.19	741.4	29.92	760.0	39	3.9	100	ne.	9	4.0			10n;fg		ne.	0	0	fair	A. Buell.
Tucson, Arizona	27.62	701.5	30.08	764.0	33	0.6	71	se.	3	1.3		0	0			0.24	6.1	clear	J. L. Whiteside.
Umatilla, Oregon	29.79	756.7	30.17	766.3	30.5	— 0.8	87	se.	3	1.3		0	9 s		nw	0	0	clear	R. P. Sibley.
Uvalde, Texas												0	8 s			0.02	0.5	cloudy	E. C. Imlay.
Vicksburg, Mississippi	29.66	753.4	29.92	760.0	60	15.6	87	sw.	24	10.7			10 s		sw.	2.76	70.1	cloudy	T. J. Kenan.
Visalia, California	29.74	755.4	30.12	765.0	36.5	2.5	75	s.	2	0.9		0	0			0	0	clear	J. T. Cochran.
Washington, D. C.	30.29	769.4	30.41	772.4	34	1.1	100	e.	3	1.3			10 n			0.30	7.6	light rain	B. M. Purssell.
West Los Animas, Colorado	25.93	658.6	30.01	762.2	15	— 9.4	83	w.	5	2.2		0	0			0	0	clear	J. Grover.
Wickenburg, Arizona					24.0	— 4.4	61	nw.			1	0	0			0	0	clear	H. A. Kremp.
Williamsport, Pa.	29.72	754.9	30.36	771.1	32.5	0.3	94	se.	7	3.1			10 n			inap.	inap.	sleeting	B. F. Hough.
Wilmington, N. Carolina	30.23	767.8	30.29	769.4	54	12.2	93	nw.	1	0.4			10s;fg		calm	0.41	10.4	cloudy	S. A. Haney.
Winnemucca, Nevada	25.55	649.0	30.05	763.3	8	—13.3	58	ne.	8	3.6		0	0			0.21	5.3	clear	J. R. Williams.
Yankton, Dakota	28.70	729.0	30.09	764.3	23	— 5.0	88	ne.	4	1.8		4 ck	0			0	0	fair	J. H. Attield.
Yuma, Arizona	29.93	760.2	30.08	764.0	39.4	4.1	64	n.	2	0.9		0	0			0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	21.99	558.5			86.5	13.6	78	nw.	1	0.4		5 k	3 ns		nw.	0	0	cloudy	Joaquin Gomez.
Bridgetown, Barbados, W.I.	30.11	764.8	30.12	765.0	78	25.6	77	e.				5 k	5 ks	e.	e.	0	0	fair	J. A. Racker.
Buenaventura, U. S. C.	29.97	761.2	29.90	761.7	78	25.6	86	s.	8	3.6		4 ck	6 ks	s.	s.	0.10	2.5	cloudy	J. I. Plume.
Guadeloupe, W. I.	30.06	763 5	30.08	764.0	74	23.3	95	e.				4 k	4 ks			0.157	4.0	rainy	B. Bigar.
Havana, Cuba, W. I.	30.16	766.1	30.21	767.3	73	22.8	82	se.	1.2	0.5		0	2 ks		calm	0	0	fair	A. Van Caneghem.
Kingston, Jamaica, W. I.	30.10	764.5	30.11	764.8	70.2	21.2	86	n.	1	0.4		0	0			0	0		Robert Johnston.
Navassa	30.10	764.5	30.18	766.6	73	22.8	85	e.	8	3.6			10		e.	0	0		F. M. Everett.
Paramaribo, S. A.	30.07	763.8	30.07	763.8	78	25.6	86	e.			2	5 k	8 ps	e.		0.150	3.8	cloudy	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.48	748.8	29.94	760.5	81	27.2	74	calm			0		10 ks		calm	3.40	86.4	cloudy	Miss Flora A. Nichols.
Rivas							94	ne.			3		9 ks		ne.	0	0	cloudy	Robert Mason.
Santiago de Cuba, W. I.	30.07	763.8	30.09	764.3	71	21.7	75	n.	4.8	2.1		0	0			0	0	clear	
York Factory, B. A.	30.42	772.7	30.48	774.2	—24.0	—31.1		nw.	12	5.4		0	0			0.02	0.5	clear	W. Wood.

*Total for last 4 days.

STATIONS AND VESSELS.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
British Naval.																		
H. M. S. Agincourt, N. 38° 30′, E. 2° 00′	30.41	772.4	59	15.0	87	nnw.			2		0					1	nnw.	blue sky.
H. M. S. Albatross, Canton, China	30.17	766.3	64	17.8		nw.			1		0							blue sky.
H. M. S. Alert, Mahi, Seychelles Id's	29.86	758.4	85	29.4	73	wnw.			2		6							d. clouds.
H. M. S. Alexandra, Malta, Mediterranean	30.21	767.3	62	16.7	77	nne.			4		5	nne.						d. clouds.
H. M. S. Antelope, N. 36° 28′ E. 22° 20′	30.03	762.7	64	17.8		nne.			5–6		5	nne.						squally.
H. M. S. Bacchante, Alexandria, Egypt	30.04	763.0	64	17.8	83	nnw.			1		2	nnw.						blue sky.
H. M. S. Boadicea, S. 33° 05′, E. 18° 00′	30.12	765.0	67	19.4	68	var.			1–2		0							blue sky.
S. S. Champion, S. 32° 00′ W. 82° 00′	30.10	764.5	66	18.9	68	se.			3		5	calm				4	ese.	d. clouds.
H. M. S. Cleopatra, N. 29° 56′ E. 32° 33′	30.03	762.7	70	21.1	52	nnw.			1		4	sw.						d. clouds.
H. M. S. Comus, Singapore, Malay Peninsula	29.95	760.7	79	26.1	90	nne.			1		2							d. clouds.
H. M. S. Diamond, S 38° 48′, E. 81° 28′	30.27	768.8	65	18.3	92	nne.			1		0					1	w.	blue sky.
H. M. S. Dido, N. 13° 05′, W. 59° 36′	30.15	765.8	78	25.6		e.			3		2	ne.						d. clouds.
H. M. Dock-Yard, Bermuda, W. I.	30.47	773.9	58.5	14.7	61	nnw.			2–3		5	nnw.						d. clouds.
H. M. S. Dwarf, S. 34° 35′, W. 58° 19′	29.99	761.7	73.5	23.1	88	calm			0		0							blue sky.
H. M. S. Eclipse, S. 15° 01′, E. 40° 45′	29.79	756.7	81	27.2		ene.			1		8							d. clouds.
H. M. S. Fawn, Zebayer Island, Red Sea	29.79	756.7	82	27.8	56	s.			6		0					4	s.	misty.
H. M. S. Flying Fish, N. 34° 41′, E. 135° 12′	30.23	767.8	45	7.2	76	calm			0		3							misty.
H. M. S. Gannet, S. 35° 00′, W. 90° 40′	30.11	764.8	67	19.4	80	ne.			2		6					1	nne.	d. clouds.
H. M. S. Garnet, Keppel Sound, Faulkland Isld	29.50	749.3	52	11.1	86	w.			3		5	w.						d. clouds.
H. M. S. Inconstant, S. 8° 30′ E. 104° 00′	29.87	758.7	82	27.8	87	w.			2		5	wsw.				2	w.	d. clouds.
H. M. S. Iron Duke, N. 22° 16′, E. 114° 10′	30.20	767.1	60	15.6	100	calm			0		10							d. clouds.
H. M. S. Liffey, Coquimbo, Chili	29.94	760.5	63	17.2		n.			1		10							overcast.
H. M. S. Magpie, N. 24° 32′, E. 118° 31′	30.19	766.8	53	11.7	69	ne.			6–7		10	sw.				2	ne.	misty.
H. M. S. Malabar, N. 37° 17′, E. 10° 58	30.29	769.4	57	13.9	81	nne.			2–3		3	nne.				3	nne.	misty.
H. M. S. Rambler, Cape Lopez Bay, Lower Guinea	29.83	757.7	85	29.4		s.			1		7	calm						d. clouds.
H. M. S. Ready, N 24° 56′ E. 58° 03′	30.09	764.3	76.1	24.5		wsw.			2		0							blue sky.
H. M. S. Rocket, Vancouver Island, British Columbia	30.15	765.8	38	3.3	54	nne.			1		7	ene.						d. clouds.
H. M. S. Sea Gull, S. 6° 09′, E. 39° 11′	29.26	743.2	85	29.4	79	nnw.			2		1	nne.						blue sky.
H. M. S. Thalia, N. 2° 12′, W. 24° 49′	29.96	761.0	83.5	28.6		calm			0		9	sse.				1	n.	d. clouds.
H. M. S. Triumph, S. 34° 56′, W. 90° 41′	30.14	765.5	68	20.0	79	ne.			3		3	sse.				4	wsw.	d. clouds.
H. M. S. Tyne, N. 17° 43′, E. 113° 30′	30.08	764.0	72	22.2	85	nne.			3		9	nne.				3	nne.	gloomy.
H. M. S. Woodlark, Bombay, India	29.88	758.9	80.5	26.9	74	wnw.			3–4		0							misty.
Portuguese Naval.																		
Quanza, Santiago	29.99	761.7	85.1	29.5	50	ne.			2		8					2	ne.	d. clouds.
United States Naval.																		
Navy Yard, Pensacola, Fla	30.03	762.7	71	21.7	90	se.	20	8.9			10		se.	0	0			threatening
Naval Hospital, Portsmouth, N. H.	30.43	772.9	24	— 4.4	?	calm	0	0			8			0	0			cloudy.
Naval Hospital, Yokohama, Japan	30.02	762.5	46	7.8	65	e.			4		5	w.		0	0			hazy.
Adams, Callao, Peru	29.70	754.4	68	20.0	100	sse.			1–2		10					gr'd	ssw.	foggy.
Alaska, Valparaiso, Chili	29.85	758.2	60	15.6	82	calm			0		0			0	0	sm'h		clear.
Alert, N. 9° 57′, E. 121° 57′*	29.78	756.4	82	27.8	83	n.			3		10?			0	0	sm'h		clear?
Alliance, St. Lucia, W. I.	30.04	763 0	79	26.1	70	ene.			1		5?		ene.	light	light	sm'h		clear ?
Ashuelot, Tientsin, China	30.12	765.0	42	5.6	42	s.			2		0							clear.
Brooklyn, Falkland Islands	29.41	747.0	52	11.1	86	wsw.	9	4.0			2		sw.	0	0	sm'h		fair.
Colorado, New York, N. Y.	30.50	774.7	33	0.6	80	se.	6	2.7			10			0	0			overcast.
Enterprise, N. 24° 34′, W. 67° 50′*	30.31	769.9	71	21.7	90	e.			4		10		e.			mod.	e.	cloudy.
Essex, Porto Grande, Cape Verd Islands	30.07	763.8	71	21.7	75	ne.			1		2		ne.			long	ne.	clear.
Franklin, Norfolk, Va.	30.39	771.9	48	8.9	92	ese.	9	4.0			10		se.	0.16	4.1			cloudy.
Galena, Villafranca, France	30.35	770.9	67	19.4	74	calm			0		0					sm'h		clear.
Independence, Mare Island, Cal.	30.00	762.0	41	5.0	74	nw.			2		0			0	0			clear.
Kearsage, New Orleans, La	29.94	760.5	71	21.7	90	s.			4		10		s.					cloudy.
Lackawanna, Valparaiso, Chili†	29.96	761.0	58	14.4	94	calm			0		10							misty.
Lancaster, Charrak Turkey, Asia*	30.14	765.5	54	12.2	100	nne.			3		0			0	0	sm'h		clear.
Marion, S. 33° 54′, E. 180 24′*	29.89	759.2	72	22.2	49	wnw.			2		0			0	0	sm'h		clear.
Michigan, Erie, Pa	29.92	760.0	38	3.3	100	sw.			6		10		sw.					raining.
Minnesota, Newport, R. I.	30.57	776.5	36	2.2	70	s.	5	2.2			10							cloudy.
Monocacy, Yokohama, Japan	30.22	767.6	48	8.9	78	ene.			2		5		ne.					fair.
New Hampshire, Newport, R. I.	30.53	775.4	35	1.7	54	s.			3		0			0	0	sm'h		clear.
Nipsic, Lisbon, Portugal	30.41	772.4	66	18.9	64	e.			3		0					sm'h		clear.
Onward, Callao, Peru†	30.05	763.3	66	18.9	100	sse.			1		10		nnw.			long	w.	foggy.
Palos, Hoo-i-tan Bay, China	30.23	767.8	51	10.6	72	ne.			6		10							overcast.
Passaic, Washington, D. C.	30.68	779.3	35	1.7	80	e.			1		0?							cloudy?.
Pensacola, Iqueque, Peru	29.98	761.5	65	18.3	73	calm	0	0			2					sm'h		fair.
Powhatan, Fort Royal, Martinique, W. I.	30.14	765.5	79	26.1	74	ese.			3		8		ese.			light	ne.	cloudy.
Quinnebaug, N. 40° 05′, E. 26° 24′	30.21	767.3	51	10.6	59	ne.			6		0			0	0	r'gh	ne.	hazy.
Ranger, Acapulco, Mexico*	29.87	758.7	74	23.3	76	calm			0		0			0	0	sm'h		clear.
Richmond, Yokohama, Japan *	30.12	765.0	48	8.9	70	ne.			3		10			0	0			cloudy.
Shenandoah, N. 00° 01′, W. 35° 56′*	30.05	763.3	77	25.0	91	n.			2		8		ne.			long	ne.	rainy.
St. Louis, League Island, Pa	30.75	781.0	34	1.1	100	ese.	11	4.9			10							hailing.
Swatara, Yokohama, Japan *	30.01	762.2	48	8.9	70	ne.			4		10		ne.			mod.	ne.	hazy.
Tennessee, N. 24° 42′, W .83° 48′	30.16	766.1	76	24.4	73	ese.	15	6.7			2			0	0	mod.		fair.
Vandalia, Havana, Cuba*†	30.30	769.6	70	21.1	90	e.			1		2		calm					clear.
Wabash, Boston, Mass.	30.56	776.2	29	— 1.7		calm	0	0			2			0	0			hazy.
Wachusetts, Sitka, Alaska	30.34	770.6	32	0.0		calm			0		0					sm'h		clear.
Wyoming, Port Royal, S. C.	30.27	768.8	50	10.0	100	ne.	8	3.6			10		sw.	0	0			overcast.
Yantic, Pensacola, Florida*	29.98	761.5	69	20.6	95	ese.			3		0		se.					cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ALLEN LINE.																		
S. S. Nova Scotian, N. 47° 48′ W. 38° 29′	29.65	753.1	34	1.1		nw.			5		10		nw.			con	sw.	showing.
S. S. Peruvian, Liverpool, England*	29.89	759.2	40	4.4		wsw.			5		9		sw.	0	0			cloudy.
S. S. Prussian, Boston, Mass*	30.50	774.7	29	— 1.7		sse.			1		8		se.					hazy
S. S. Scandinavian, N. 52° 56′, W. 24° 53′*	29.94	760.5	44	6.7		w.			5		7		wsw.	3 h'r	3h'r	high	cross	showery.
S. S. Waldensian, N. 51° 55′, W. 25° 30′*	29.87	758 7	43	6.1		nw.			5		5?		w.	2 h'r	2 h'r	hv'y	wnw.	clear?
AMERICAN STEAMSHIP COMPANY.																		
S. S. British Crown, Off Reedy Island, Delaware Bay	30.59	777.0	35	1.7		se.			3		10			5 h'r	5 h'r			heavy rain.
S. S. Illinois, N. 40° 45′, W. 48° 59′	30.27	768.8	36	2.2	100	n.			6		2?		n.	h'vy	h'vy	r'gh	n.	overcast?
S. S. Indiana, Philadelphia, Pa†	30.47	773.9	36	2.2	90	e.			4		8		ne.			hv'y	nw.	overcast.
S. S. Ohio, N. 44° 24′ W. 46° 04′*†	30.10	764.5	26	— 3.3	100	wnw.			8		8		nw.			hv'y	nw.	squally.
ANCHOR LINE.																		
S. S. Devonia, N. 51° 17′ W. 31° 00′*†	29.66	753.4	41	5.0		wsw.			1		7		w.			h'vy	cross	fair.
S. S. Galatia, N. 43° 49′, W. 49° 56′†	30.30	769.6				n.			6		7		nw.	10 h'r	10 h'r	mod.	nw.	
ATLAS LINE.																		
S. S. Ailsa, Port Au Prince, Hayti, W. I†	30.18	766 6	76	24.4	81	ese.			1		0			1¼h'r	sh'rs	sm'h		fine.
S. S. Alvo, N. 10° 02, W. 78° 12′	30.01	762.2	79	26.1		ne.			5		6		ne.	0	0	mod.	ne.	fine.
BOSTON AND HALIFAX LINE.																		
S. S. Carroll, N. 43° 45 W. 66° 07′†	30.64	778.2	44	6.7	84	w.								0	0	small	sw.	fine.
BRITISH METEOROLOGICAL OFFICE.																		
S. Auckland, S. 3° 40′, W. 31° 16′	29.99	761.7	78	25.6		ese.			3		7							raining.
S. Baroda, S. 47° 35′, E. 19° 37′	29.34	745.2	49.3	9.6	86	wsw.			7		10							raining.
Caldew, S. 1° 33′, W. 27° 55′	30.00	762.0	81	27.2		ene.			4		8							d. clouds.
Bk. Coppename, N. 35° 55′, W. 43° 27′	30.17	766.3	56	13.3	72	n.			5		8							showery.
S. S. Gordon Castle, N. 10° 37′, E. 63° 20′	29.88	758.9	82.8	28.2	83	ine.			4		2							d. clouds.
Brig Hermine, S. 27° 10′, W. 25° 27′	30.10	766.8	78	25.6	73	ne.			3		2							d. clouds.
S. S. Humboldt, N. 39° 42′, W. 65° 40′	30.68	779.3	38	3.3	77	ese.			1		2							d. clouds.
S. Lochee, N. 17° 10′, W. 38° 28′	30.15	765.8	73.3	22.9	81	ne.			4		5							d. clouds.
S. S. Minho, S 1° 21′ W. 31° 50′	29.97	761.2	80.5	26.9	87	e.			4		4							d. clouds.
BRISTOL CITY LINE.																		
S. S. Brooklyn City, N. 44° 24′, W. 40° 50′*†	30.10	764.5	46	7.8		wnw.			7		6		nw.	snow	snow	high	w.	fine.
CROMWELL LINE.																		
S. S. New Orleans, N. 24° 48′ W. 80° 48′*†	30.25	768.3	66	18.9		se.					2		se.			mod.	se.	smoky.
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. Canada, Havre, France	30.48	774.1	55.4	13.0		sw.			2		7		sw.	0	0			
St. Laurent, N. 48° —′, W. 30° 20′*†	29.92	760.0	44.6	7.0		sw.			6					rain	rain	h'vy	sw.	hailing.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Lessing, Cuxhaven, Germany			62	16.7		ssw.			4		5		s.	0	0			fair.
LEYLAND LINE.																		
S. S. Iberian, N. 48° 21′, W. 30° 01′						w.			6		8		w.	5 h'r	snow	high	wnw.	
MALLORY LINE.																		
S. S. Colorado, New York, N. Y.†	30.48	774.2	40	4.4		se.			1		10		se.	15h'r	hail			cloudy.
MERCHANTS' EXPRESS LINE.																		
S. S. Hermod, N. 40° 32′, W. 57° 00′*†	30.30	769.6	35.6	2.0		n.			2		9		nne.	0	0	mod.	e.	cloud).
MERCHANTS' STEAMSHIP COMPANY.																		
S. S. Glenfyne, N. 16° 00′, W. 53° 30′	29.75	755.6	78	25.6		e.			5		3		ene.			mod.	ne.	clear.
NATIONAL LINE.																		
S. S. Erin, N. 48° 17′ W. 28° 43′	29.68	753.9	45	7.2		sw. to nw.			6		3		wsw.	0	0	long	wsw.	
NEW YORK HERALD WEATHER SERVICE.																		
S. S. City of Amsterdam, N49° 36′ W. 14° 11′*†	30.14	765.5	52	11.1		ssw.			5								sw.	
S. S. Alvena, Kingston, Jamaica, W. I*†	29.93	760.2	77	25.0		calm			0									clear.
S. S. City of New York N. 27° 23′ W. 86° 35,*†	30.12	765.0	76	24.4		se.			3								se.	clear.
S. S. P. Caland, N. 43° 58′ W. 34° 24′	29.95	760.7	51.8	11.0		wsw.			5							5	w.	
NORTH GERMAN LLOYD.																		
S. S. Hermann, N. 39° 59′, W. 65° 16′*†	30.69	779.5	44.6	7.0		ne.			2		3		n.	0	0	sm'h		fair.
S. S. Hohenzollern, S. 27° 11′, W. 44 21′*	29.85	758.2	78.1	25.6		sw.			5		1		sw.	rain	rain	4	sw.	clear.
S. S. Kronprinz F. Wilhelm, N. 48° 56′ W 27° 00′	29.68	753.9	53.6	12.0		wnw.			6		4		wnw.	4 h'r	4 h'r	8	w.	clear.
S. S. Mosel, N. 49° 58′ W. 4° 54′	30.39	771.9	52.2	11.2		sw.			6		10		sw.	0	0	mod.	sw.	cloudy.
S. S. Neckar, N. 43° 26′ W. 42° 09′	30.08	764.0	34.3	1.3		nw.			6		7		nnw.	5 h'r	snow	high	nw.	hailing.
S. S. Nurnburg, S. 31° 18′ W. 46° 36′*	29.95	760.7	73.4	23.0	93	e.			4		10		se.	½h'r	h'vy	4	e.	cloudy.
S. S. Oder, N. 43° 19′, W. 56° 22′*	30.52	775.2	25.2	— 3.8		w.			5		5		wsw.	0	0	mod.	n.	fair.
S. S. Ohio, N. 50° 17′, W. 2° 30′	30.44	773.2				ssw.			5		6		sw.	0	0	sm'h	sw.	fair.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Belgic, Hong Kong, China†	30.11	764.8	57	13.9	93	calm			0		5		ne.	0	0			fair.
S. S. Gaelic, N. 34° 53′, E. 152° 14′†	30.12	765.0	59	15.0	76	nnw.			4		10		nnw.			mod.	nnw.	overcast.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, New York, N. Y†	30.53	775.4				ese.			3		10			light	snow			hazy.
S. S. Seminole, Boston, Mass†	30.47	773.9	40	4.4	64	s.			1		10		sse.	0	0			threatening.
OREGON IMPROVEMENT COMPANY.																		
S. S. Mississippi, N. 38° 04′ W. 123° 04′†	30.10	766.8	47	8.3	79	wnw.			2		5		nw.			mod.	nw.	fair.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Columbia, N. 38° 02′, W. 123° 04′†	30.16	766.1	45	7.2	76	nw.			3		1		nw.	0	0	sm'h	nw.	clear.
S. S. Oregon, Portland, Oregon†	30.03	762.7	36	2.2	90	calm			0		10							hazy.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, N. 32° 40′, W. 117° 15′†	30.12	765.0	51	10.6	79	ssw.			2		10		sw.			sm'h		cloudy.
S. S. Geo. W. Elder, Seattle, W. T†	30.11	764.8	34	1.1		n.			3		2		nw.	0	0			clear.
S. S. Idaho, San Francisco Cal†	30.16	766.1	44	6.7	68	w.			2		0							clear.
S. S. State of California, San Francisco, Cal†	30.13	765.3	41	5.0	?	nnw.			4		2		nw.	0	0			fair.
S. S. Victoria, N. 45° 13′, W. 124° 50′†	30.06	763.5	40	4.4	86	n.			3		10					light	nw.	squally.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, Auckland, New Zealand	29.98	761.5	68	20.0	90	ne.			3		8		ne.	0	0			hazy.
S. S. City of Rio de Janeiro, Panama, Panama†	30.14	765.5	78	25.6	73	n.			1		2		n.	0	0	sm'h		fine.
S. S. City of Sydney, Sydney, N. S. W.†	30.02	762.5	74	23.3	86	e.			3		8		se.	0	0	sm'h		cloudy.
S. S. Colima, N. 15° 50′, W. 95° 24′†	29.92	760.0	80	26.7	74	sw.			2		5		w.	0	0	sm'h	ssw.	fair.
S. S. Colon, N. 10° 18′, W. 79° 17′†	30.00	762.0	80	26.7		nne.			3		7		ene.			mod.	ne.	cloudy.
S. S. Zelandia, N. 2° 34′, W. 165° 45′	29.78	756.4	79	26.1	87	e.			4		8		n.			mod.	ne.	fine.
QUEBEC STEAMSHIP COMPANY.																		
S. S. Muriel, St. Kitt's, W. I						ne.			5		0			0	0	sm'h		fair.
S. S. Bermuda, Ponce, W. I†	30.15	765.8	73	22.8		ene.			2		2		e.	0	0			fine.
RED STAR LINE.																		
S. S. Belgenland, N. 42° 41′ W. 54° 12′†	30.62	777.7	31	— 0.6	68	w.			6		7		w.	0	0	mod.	w.	fair.
S. S. Rhynland, N. 48° 21′, W. 24° 24′	29.80	756.9	49	9.4	78	wsw.			5		8		wsw.	0.2	5?	h'v'y	wsw.	cloudy.
S. S. Switzerland, N. 49° 56′ W. 5° 12′†	30.39	771.9				sw.			3		10		sw.	0	0	long	sw.	misty.
S. S. Vaderland, Antwerp, Belgium*†	30.40	772.1	49	9.4		w.			3		8		nw.	0	0			cloudy.
S. S. Waesland, N. 41° 15′, W. 49° 27′	30.43	772.9	33	0.6		nnw.			5		10		nw.	6 h'r	6 h'r	mod.	nnw.	cloudy.
ROTTERDAM LINE.																		
S. S. Schiedam, N. 50° 02′, W. 3° 36′*	30.33	770.4	53.2	11.8	95	ssw.			4		5		w.			sm'h	sw.	drizzling.
THINGVALLA LINE.																		
S. S. Thingvalla, N. 42° 30′, W. 49° 49′†	30.44	773.2	27.5	— 2.5		nw.			3		3?		nw.	1 h'r	snow	mod.	nnw.	covered.?
WARREN LINE.																		
S. S. Iowa, N. 45° 05′, W. 41° 50′*†	30.12	765.0	34	1.1		wnw.			5		9		wnw.	4 h'r	snow	mod.	wnw.	cloudy.
WHITE STAR LINE.																		
S. S. Celtic, Liverpool, Eng*†	30.01	762.2	52	11.1	59	wsw.			6		10		sw.	0	0	h'vy	sw.	cloudy.
S. S. Republic, N. 41° 29′ W. 62° 46′†	30.61	777.5	50	10.0	86	w.			2		2		sw.	0	0	mod.	w.	fine.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
WILSON LINE.																		
S. S. Romano, N. 40° 01′, W. 69° 49′*	30.60	777.2	33	0.6	.....	ese.	.....	.....	3	.....	10	.....	.....	0	0	mod.	se.	fair.
S. S. Salerno, New York, N. Y.†	30.49	774.4	.....	.....	.....	s.	.....	.....	1	.....	10	.....	.....	.....	.....	.....	.....	cloudy.
WINSOR LINE.																		
S. S. Catherine Whiting, Off Barnegat, N. J†	30.54	775.7	.....	.....	.....	ese.	.....	.....	4	.....	.....	.....	.....	.....	.....	short	se.	rain & hail.
MISCELLANEOUS.																		
Sch. Addie Fuller, Cedar Keys, Florida†	30.31	769.9	69.5	20.8	87	se.	.....	.....	4	0	0	.....	.....	0	0	.....	.....	clear.
Bk. Adelaide, S. 1° 37′, W. 32° 08′*†	30.00	762.0	80	26.7	.....	se.	.....	.....	3	.....	4	.....	ese.	0	0	mod.	se.	fair.
Bk. Alpha, N 31° 30′, W. 74° 25′.*†	30.36	771.1	70	21.1	.....	ese.	.....	.....	6	.....	5?	.....	ese.	0	0	rg'h	se.	cloudy?.
Sch. Annie M. Law, N. 40° 57′, W. 56° 35′*†	30.60	777.2	42	5.6	66	wnw.	.....	.....	3	.....	10	.....	sw.	16 h'r	sleet	short	nnw.	overcast.
Schr Annie R. Lewis, N 38° 26′, W. 74° 05′*†	30.42	772.7	44	6.7	.....	e.	.....	.....	3	.....	10	.....	ene.	2 h'r	2 h'r	sm'h	ne.	threatening.
Schr. Annie M. Smull, N. 1° 28′, W. 27° 40′*†	30.00	762.0	86	30.0	.....	w.	.....	.....	.....	.....	0	.....	.....	0	0	mod.	ese.	clear.
Bk. Bergenseren, N. 34° 48′, W. 43° 20′†	30.15	765.8	.....	.....	.....	n.	.....	.....	4	.....	.....	.....	n.	0	0	5	nnw.	overcast.
Bk. Celestina, N. 31° 49′. W. 37° 20′*†	30.20	767.1	.....	.....	.....	calm	.....	.....	0	.....	3	.....	var.	light	light	long	wnw.	fair.
Bk. E. L. Pettengill, S. 39° 02′ W 80° 41′†	30.20	767.1	.....	.....	.....	s.	.....	.....	1	.....	0	.....	.....	0	0	mod.	w.	clear.
S. Enoch Train, Bremerhaven, Germany*.	30.24	768.1	.....	.....	.....	wsw.	.....	.....	2	.....	3	.....	s.	0	0	.....	.....	fine.
U. S. F. C. S. FishHawk, Annapolis, Md.†	30.47	773.9	37	2.8	100	e.	.....	.....	3	.....	10	.....	ese.	.....	.....	.....	.....	raining.
Bk. Freya, N. 30° 54′, W. 72° 46′	.....	.....	67	19.4	.....	e.	.....	.....	4	.....	5	.....	e.	0	0	mod.	ne.	fair.
S. Grecian, N. 25° 02′, W. 22° 41′*†	30.20	767.1	67	19.4	.....	ene.	.....	.....	3	.....	0	.....	.....	0	0	long	nw.	hazy.
Bk. Geo. Booth, S. 32° 14′, W. 17° 00′*†	30.00	762.0	.....	.....	.....	nw·sw.	.....	.....	2	.....	5	.....	.....	0	0	crose	.....	
Bk. Granville, N. 0° 06′, W. 28° 32′*†	30.14	765.5	.....	.....	.....	sse.	.....	.....	1	.....	.....	.....	sse.	0	0	mod.	se.	clear.
Schr Henry Denison, N. 14° 01′, W. 58° 59′†	30.12	765.0	.....	.....	.....	ene.	.....	.....	5	.....	4	.....	ese.	0	0	high	ese.	fair.
Bk. Johanne Auguste, S. 22° 29′, E. 87° 13′*†	29.06	738.1	.....	.....	.....	ene.	.....	.....	5	.....	5	.....	ene.	shr's	shr's	long	ssw.	threatening.
Bk. Kate Cann, N. 44° 00′, W. 40° 30′	.....	.....	.....	.....	.....	wnw.	.....	.....	3	.....	10	.....	wnw.	6 h'r	sleet	mod.	nnw.	cloudy.
Bkt. Kryolith, N. 40° 35′, W. 40° 15′*†	30.04	763.0	.....	.....	.....	w.	.....	.....	7	.....	8	.....	w.	0	0	hv'y	wnw.	cloudy.
S. S. Lamperts, N. 42° 44′, W. 45° 24′*	30.11	764.8	41.4	5.2	63	nw.	.....	.....	6	.....	8	.....	.....	.....	.....	6	nnw.	hailing.
Schr. Maggie Abbot, N. 26° —′ W. 73° —′*†	30.29	769.4	.....	.....	.....	e.	.....	.....	4	.....	.....	.....	e.	0	0	mod.	.....	cloudy.
S. S. Malabar, N. 39° 38′ W. 56° 50′*†	30.42	772.7	.....	.....	.....	ne.	.....	.....	2	.....	8	.....	n.	driz.	driz.	cross	.....	cloudy.
Bk. Peppina, N. 36° 38′, E. 15° 12′†	30.13	765.3	62	16.7	77	ne.	.....	.....	5	.....	0	.....	.....	.....	.....	mod.	ne.	clear.
Bk. Pilgrim, S. 46° 00′. E. 38° 00′*†	29.85	758.2	.....	.....	.....	w.	.....	.....	3	.....	2	.....	w.	hail	hail	long	w.	squally.
Schr. S. B. Hubbard, Jacksonville, Florida*†	30.21	767.3	75	23.9	.....	se.	.....	.....	1	.....	10	.....	.....	0	0	.....	.....	hazy.
Bk. Stella, S. 47° 44′, W. 54° 17′*	29.56	750.8	57.6	14.2	95	wsw.	.....	.....	3	.....	1	.....	w.	0	0	mod.	sw.	clear.
Bk. Sunbeam, N. 23° 08′, W. 62° 23′*†	30.33	770.4	72	22.2	80	ne.	.....	.....	6	.....	5	.....	ne.	0	0	sm'h	.....	fair.
S. S. Victoria J. Peed, N. 32° 40′ W. 79° 02′*†	30.24	768.1	.....	.....	.....	n.	.....	.....	2	.....	2	.....	ne.	.....	.....	long	ene.	
Bg. Wanburn, S. 27° 10′, E. 10° 53′*†	30.15	765.8	.....	.....	.....	sse.	.....	.....	7	.....	8	.....	sse.	.....	.....	h'vy	sse.	
S. Wm. Woodbury, Bremerhaven, Germany*†	30.10	764.5	52	11.1	42	w.	.....	.....	6	.....	1	.....	w.	.....	.....	.....	.....	



Data, as appearing in the International Bulletin of similar date.

Isobars in *black* exhibit atmospheric pressure at sea-level, and are charted from data as reported by the several observers.

Isotherms in *red* exhibit temperature of air, similarly charted.

Broken or dotted lines indicate that the lines so broken are doubtful.

Arrows, when charted, fly with the wind and exhibit wind-direction and force.

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W. B. Hazen

Brig. & Bvt. Maj. Gen'l.
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INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON MARCH 10, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours	.....	.....	30.33	770.3	65.5	18.6	88	w.	.....	.....	3	.....	1	.....	.....	0	0	very fair.....	Moiroud.
Algiers	.....	.....	30.36	771.2	58.6	14.8	74	nw.	.....	.....	1	.....	0	.....	.....	0	0	clear.....	Nicolas.
La Calle	.....	.....	30.36	771.1	62.2	16.8	85	nne.	.....	.....	1	.....	4	.....	.....	0	0	cloudy	Fonfréde.
Tunis	.....	.....	30.34	770.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0	0	.....	Jacques.
Saida	.....	.....	30.36	771.1	62.2	16.8	55	ene.	.....	.....	1	.....	0	.....	.....	0	0	clear.....	Dumas.
Tebessa	.....	.....	30.36	771.2	43.2	6.2	88	nw.	.....	.....	2	.....	2	.....	.....	0	0	fair.....	Derché.
Geriville	.....	.....	.....	.....	54.7	12.6	30	ene.	.....	.....	1	.....	3	.....	.....	0	0	pretty fair...	Louchamp.
Laghouat	.....	.....	30.39	772.0	57.2	14.0	53	e.	.....	.....	3	.....	1	.....	.....	0	0	very fair.....	Herbin.
Biskra	.....	.....	30.37	771.3	72.0	22.2	31	n.	.....	.....	1	.....	0	.....	.....	0	0	clear.....	Malau.
Australian.																			
Melbourne, Victoria	29.76	755.9	29.85	758.2	65.0	18.3	82	s.	3	1.3	.....	.....	3	.....	.....	0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.89	759.1	30.44	773.1	60.8	16.0	48	se.	.....	.....	2	.....	0	.....	.....	0	0	.....	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.56	750.7	30.33	770.3	55.0	12.8	45	sw.	6.9	3.1	.....	.....	5	.....	.....	0	0	.....	Dr. Wierzbiski.
Eperles	29.42	747.3	30.31	769.8	54.3	12.4	44	calm	.....	.....	0	.....	10	.....	.....	0	0	.....	Julius Mikolik.
Gratz	29.15	740.3	30.41	772.4	55.4	13.0	64	s.	.....	.....	2	.....	0	.....	.....	0	0	.....	Andreas Rospini.
Hermannstadt	28.89	733 9	30.35	770.8	54.0	12.2	38	nw.	.....	.....	3	.....	0	.....	.....	0	0	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	29.06	738.0	30.40	772.2	57.4	14.1	62	wnw.	.....	.....	2	.....	1	.....	.....	0	0	clear.....	The Staff.
Lemberg	29.24	742.7	30.24	768.2	49 3	9.6	52	nw.	.....	.....	2	.....	8	.....	.....	0	0	.....	Dr. T. Stanecki.
Pola	30.31	769.8	30.42	772.7	58.6	14.8	66	wnw.	.....	.....	1	.....	0	.....	.....	0	0	....	I. R.Hydrographic Office.
Szathmar	29.87	758.7	30.34	770.6	53.1	11.7	39	w.	.....	.....	2	.....	0	.....	.....	0	0	.....	Joseph Midlinszky, S. J.
Szegedin	30.10	764.5	30.38	771.7	56.7	13.7	87	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	Karl Stancel.
Trieste	30.35	770.8	30.45	773.4	60.1	15.6	57	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	Rieder.
Vienna	29.07	753.5	30.38	771.7	60.1	15.6	49	w.	.....	.....	1	.....	2	.....	.....	0	0	.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.69	754.1	29.79	756.7	52.9	11.6	51	sw.	33	14.8	.....	.....	2	.....	.....	0.040	1.0	squally.....	W. Boswell.
Armagh, Observatory	29.80	756.9	30.05	763.3	53.1	11.7	71	sw.	25	11.2	.....	.....	7	.....	.....	.....	.....	d. clouds	S. Call.
Bidston, Liverpool Obs'y	.....	.....	30.15	765.8	55.0	12.8	77	sw.	25	11.2	.....	.....	10	.....	.....	.....	.....	overcast.....	John Hartnup.
Bolton, Sharples	29.62	752.3	30.16	766.1	52.0	11.1	90	ssw.	18	8.0	.....	.....	10	.....	.....	.....	.....	overcast.....	Thomas Mackereth. [A.S.
Bradford, Yorkshire	29.68	753.9	30.07	763 8	56.5	13.6	70	w.	.....	.....	4	.....	3	.....	.....	0	0	blue sky.....	J.McLandsborough, F. R
Bridgetown, Barbadoes	30.04	763.0	30.07	763.8	83.0	28.3	59	ne.	.....	.....	2	.....	3	.....	.....	.....	.....	d. clouds	Pvt. J. Surgenor, A. H.C.
Cardington	.....	.....	30.24	768.1	57.2	14.0	86	sw.	.....	.....	3.0	.....	10	.....	.....	.....	.....	overcast	John McLaren.
Chatham, School M. E	30.22	767.6	30.35	770.9	54.7	12.6	84	sw.	.....	.....	2	.....	8	.....	.....	.....	.....	gloomy.....	Lance Opl. G.A. Pickles.
Falmouth, Observatory	30.16	766.1	30.40	772.1	52.6	11.4	98	sw.	.....	.....	4	.....	10	.....	.....	.....	.....	rain & fog....	The Staff.
Fort Napier, Natal	27.83	706.9	30.05	763.3	72.0	22.2	42	calm	.....	.....	0	.....	0	.....	.....	.....	.....	blue sky.....	Pvt. E. K. Annis, A. H.C.
Free Town, Sierra Leone	29.58	751.3	29.81	757.2	89.0	31.7	63	nw.	.....	.....	1	.....	3	.....	.....	.....	.....	d clouds	Sergt. John Robinson.
Galway, Queen's College	.....	.....	29.95	760.7	.....	.....	.....	sw.	.....	.....	3	.....	10	.....	.....	0.03	0.8	gloomy.....	J. O'Donaghue.
Gibraltar, Mediterranean	30.32	770.1	30.37	771.4	60.8	16.0	81	e.	.....	.....	3	.....	8	.....	.....	.....	.....	gloomy.....	Opl. O. Baldwin.
Glasgow, Observatory	29.75	755.6	29.96	761.0	50.5	10.3	6[illegible]	w.	.....	.....	6	.....	10n;k	.....	.....	.....	.....	gloomy.....	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	30.17	766.3	30.34	770.6	52.4	11.3	91	sw.	.....	.....	3	.....	10	.....	.....	.....	.....	overcast.....	The Staff.
Guernsey	30.18	766.6	30.49	774.4	51.0	10.6	93	ssw.	.....	.....	1	.....	10	.....	.....	.....	.....	drizzling.....	A. Collenette, F. M. S.
Kew, Observatory	30.32	770.1	30.36	771.1	52.4	11.3	89	sw.	16	7.2	.....	.....	10	.....	.....	.....	.....	threatening.	The Staff.
Leicester, Museum	29.96	761.0	30.22	767.6	58.0	14.4	78	sw.	.....	.....	1	.....	5	.....	.....	.....	.....	d. clouds	J. C. Smith.
Malta, Mediterranean	30.22	767.6	30.29	769.4	63.0	17.2	78	n.	.....	.....	2	.....	0	.....	.....	.....	.....	blue sky	I. H. Whysall.
Nassau, Bahamas	30.24	768.1	30.29	769.4	72.0	22.2	92	se.	.....	.....	1	.....	9	.....	.....	blank	blank	overcast.....	C. S. Duncombe.
Oscott, St. Mary's College	29.71	754.6	30.23	767.8	57.9	14.4	74	ssw.	.....	.....	3	.....	7	.....	.....	.....	.....	d. clouds	John Mac Email.
Oxford, Radcliffe Obs'y	30.08	764.0	30.31	769.9	55.0	12.8	86	sw.	.....	.....	0	.....	10	.....	.....	.....	.....	squally.....	The Staff.
Plymouth	30.31	769.9	30.39	771.9	52.2	11.2	97	sw.	.....	.....	3	.....	10	.....	.....	.....	.....	drizzling	John Merrifield.
Sandwick Manse, Orkneys	.....	.....	29.04	752.8	42	5.6	91	w.	32	14.3	.....	.....	2	.....	.....	.....	.....	showery.....	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	30.19	766.8	30.26	768.6	55.2	12.9	43	ne.	.....	.....	2	.....	1	.....	.....	Inap.	Inap.	blue sky	W. H. Lyne.
Sheffield	29.87	758.7	30.14	765.5	61.2	16.2	70	sw.	.....	.....	3	.....	4	.....	.....	Inap.	Inap.	d. clouds	W. F. Cooper.
Silloth Rectory	30.03	762.7	30.06	763.5	49.8	9.9	82	wsw.	.....	.....	5	.....	10	.....	.....	0.010	0.3	overcast.....	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	30.17	760.3	50.5	10.3	95	wsw.	16	7.2	.....	.....	10	.....	.....	.....	.....	overcast.....	R. S. J. Perry.
Stratfield Turgiss	30.14	765.5	30.36	771.1	53.0	11.7	91	w.	.....	.....	3	.....	10	.....	.....	.....	.....	d. clouds....	Rev.C.H.Griffiths, F.M.S.
Truro, Royal Institution	30.34	770.6	30.38	771.6	57	13.9	87	sw.	.....	.....	0	.....	10	.....	.....	.....	.....	gloomy.....	W. Newcombe.
Valencia, Observatory	30.13	765.3	30.16	766.1	54.6	12.6	86	ssw.	36	16.1	.....	.....	9	.....	.....	.....	.....	misty.....	The Met'g'l Office.
Canadian.																			
Charlottetown, P. E. Island	29.49	749.0	29.53	750.0	30	— 1.1	90	ne.	6	2.7	.....	.....	10 n	.....	.....	0.875	22.2	cloudy.....	H. J Cundall, C. E.
Chatham, N. B*	29.63	752.6	29.70	754.4	25	— 3.9	96	n.	3	1.3	.....	.....	10 s	.....	n.	0.38	9.7	cloudy.....	G. A. Blair.
Father Point, Quebec*	29.71	754.6	29.73	755.1	15	— 9.4	91	ne.	5	2.2	.....	5 k	5 s	w.	calm	0.02	0.5	threatening.	J. McWilliams.
Fort Garry, Manitoba*	29.57	751.1	30.50	774.7	0	—17.8	100	nw.	13	5.8	.....	.....	10 n	.....	.....	0	0	cloudy.....	James Stewart.
Halifax, N. S*	29.42	747.3	29.55	750.6	39	3.9	96	sw.	13	5.8	.....	.....	10 n	.....	.....	0.905	23.0	light rain....	A. Allison.
Kingston, Ontario*	29.20	741.7	29.55	750.6	26	— 3.3	96	n.	1	0.4	.....	.....	10 n	.....	.....	0.32	8.1	heavy snow	A. P. Knight, M. A.
Montreal, Quebec*	29.32	744.7	29.53	750.0	25	— 3.9	96	ne.	28	12.5	.....	.....	10 n	.....	.....	0.69	17.5	heavy snow	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.05	737.9	29.78	756.4	25	— 3.9	88	n.	16	7.2	.....	.....	10 n	.....	ne.	0.28	7.1	light snow...	Rev. R. Mosley.
Port Dover, Ontario	29.01	736.8	29.73	755.1	32	0.0	100	w.	13	5.8	.....	.....	10 n	.....	.....	0.68	17.3	threatening.	H. Morgan.
Port Stanley, Ontario	29.12	739.6	29.79	756.7	32	0.0	88	w.	24	10.7	.....	.....	10 n	.....	nw.	0.77	19.6	cloudy.....	M. Payne.
Quebec, Quebec*	29.33	745.0	29.67	753.6	24	— 4.4	100	ne.	.....	.....	7	.....	10 n	.....	e.	0.30	7.6	light snow..	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.25	742.9	29.73	755.1	25	— 3.9	88	w.	3	1.3	.....	.....	10 n	.....	.....	0.40	10.2	heavy snow	W. H. McIntyre.
Saugeen, Ontario*	29.06	738.1	29.81	757.2	27	— 2.8	92	n.	38	17.0	.....	.....	10 s	.....	.....	0.60	15.2	cloudy	
St. Andrews, N. B	29.49	749.0	29.54	750.3	28	— 2.2	95	ne.	3	1.3	.....	.....	10 n	.....	.....	0.58	14.7	cloudy.....	
Sydney, C. B*	29.56	750.8	29.62	752.3	33	0.6	96	s.	16	7.2	.....	.....	10 n	.....	.....	0.50	12.7	sleeting.....	G. Murdoch, C. E.
Toronto, Ontario*	29.30	744.2	29.70	754.4	29	— 1.7	80	n.	22	9.8	.....	.....	10 ks	.....	n.	0.69	17.5	cloudy.....	Magnetic Observatory.
Yarmouth, N. S*	29.50	749.3	29.57	751.1	37	2.8	100	sw.	4	1.8	.....	fg	fg.	.....	.....	1.11	28.2	light rain....	Lt. F. E. Wilmot, R. N.
Sub-series.																			
St. Johns, Newfoundland	29.93	760.2	30.19	766.8	27	— 2.8	.....	s.	5	2.2	.....	fg	fg.	.....	.....	.....	.....	snowing.....	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.21	767.3	30.24	768.1	68.0	20.0	75	se.	13.1	5.9	.....	0	2 s	.....	.....	0.550	14.0	hazy	John Duthie.
Cape Town, C. G. H. Obs'y	30.01	762.2	30.05	763.3	80.5	26.9	47	ssw.	18	8.0	.....	0	0	.....	.....	0	0	.....	The Staff, for D. Gill.

STATIONS.	BAROMETER. Corrected for instrumental error and for temperature.		BAROMETER. Reduced to sea-level.		Temperature of the air.		Relative humidity.	WIND. Direction.	WIND. Velocity.		WIND. Force.	CLOUDS. Amount and kind.		CLOUDS. Direction.		Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
												Upper.	Lower.	Upper.	Lower.				
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
CHINESE (*Sub-series*).																			
Hankow	30.12	765.0	30.40	772.1	55.5	13.1	65	nnw.			1		9			0	0		N. Titoushkin.
Zi-Ka-Wei, near Shanghai.	30.21	767.4	30.24	768.0	46.0	7.8	82	se.	7.4	3.3			2 k			0	0	fair	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	29.99	761.7	30.04	762.9	46.4	8.0	96	wnw.	18	8			10					rain and fog.	Oversergent Fischer.
Fanöe	29.99	761.7	30.01	762.2	45.9	7.7	94	wsw.			6		10						Overlöerer Lauridsen.
Godthaab, Greenland	29.01	736.8	29.05	737.9	−0.8	−18.2		s.			4		10						S. Kleinschmidt.
Stykkisholm, Iceland	28.78	731.0	28.82	732.1	23.4	− 4.8	95	sw.			6		10					snowing	A. O. Thorlacius
Thorshavn	29.40	746.8	29.44	747.7	41.7	5.4	74	sw.	20	9			5						Overlöerer Bergh.
Vestervig	29.76	756.0	29.85	758.3	43.7	6.5	98	wsw.			6		10						Loearer Oesterbol.
FRENCH.																			
Agen, Normal School	29.85	758.3	30.51	775.0	64.0	17.8	70	calm			0		0			0	0	clear	M. Labroue, Director.
Alençon, Normal School	29.98	761.4	30.53	775.4	47.3	8.5	92	sw.					n		ne.	0	0		M. Nicot, Director.
Arras, Engineer School	30.16	766.0	30.42	772.7	48.9	9.4	86	w.			2		10		w.	0	0	covered	M. Klein, Commandant.
Avignon, Normal School	30.38	771.7	30.46	773.7	71.6	22	43	n.			1		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.94	760.4	30.50	774.6	61.9	16.6	55	s.			1		0			0	0	clear	M. Saillard, Director.
Beauvais, Normal School	30.24	768.0	30.51	774.9	55.4	13	66	sw.			1		1c		sw.	0	0	covered	M. Frère Eugène Mari.
Besançon, Normal School	29.52	749.7	30.43	772.9	59.0	15	74	ne.			1		0			0	0	clear	M. Gobin, Director.
Bordeaux, Observatory	30.25	768.4	30.52	775 2	52.3	11.3	95	nw.			1		0			0.008	0.2	clear	M. Rayet, Director.
Bourges, Normal School	29.95	760.7	30.50	774.8	59.0	15	53	sw.			c		0	sw.		0	0		M. Postel, Director.
Brest, Naval Observatory	30.25	768 4	30.50	774.6	53.2	11.8	93	sw.			2		10		sw.	0	0	misty	M. de Kermaree, Dir.
Caen, Normal School	30.40	772.1	30.47	774.0	52.2	11.2	83	sw.			3		10		sw.	0	0	covered	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	30.10	764.5	30.43	772.8	55.4	13.0	86	s.			1		0			0	0	clear	M. Jadot, Director.
Charleville, Normal School	29.97	761.1	30.49	774.4	50.0	10	70	wnw.			1		8		ese.	0	0	¼ covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	29.13	739.8	30.47	773.9	66.9	19.4	42	wnw.			1		0			0	0	clear	M. Alluard, Director.
Cluny, *Normal School*	29.64	752.9	30.50	774.7	64.4	18	53	se.			3		7			0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.63	752.6	30.52	775.3	61.0	16.1	66	nw.			1		0			0	0	clear	Dr. Coulet, Director.
Gap, Normal School	27.85	707.3	30.34	770.6	66.2	19	38									0	0		M. Jeangirard, Director.
Gréasque, du. Rhone	29.31	744.4	30.42	772.6	70.2	21.2	22	n.			1		0			0	0	clear	M. Kina, Director.
Grenoble, Normal School	29.71	754.7	30.48	774.2	62.6	17.0	50	se.			1		0			0	0	clear	M. Abiard, Director.
Guéret, Normal School	28.91	734.3	30.59	777.0	63.5	17.5	30	e.			1		0			0	0	clear	M. Rivoire, Director.
Lamballe, Normal School	30.23	767.8	30.50	774.8	54.3	12.4	72	sw.			1		8		sw.	0	0	very cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.87	758.8	30.44	773.1	65.3	18.5	76	n.			1		0			0	0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	30.44	773.1	30.54	775.7	52.2	11.2	90	s.			2		10			0.004	0.1	covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.45	748.1	30.52	775.2	61.0	16.1	80	ne.			1		0			0	0	hazy	M. André, Director.
Mans, Normal School	30.22	767.6	30.54	775.8	46.6	8.1	85	nw.			3		10			0	0	covered	M. Piboen, Director.
Marseille, Observatory	30.15	765.9	30.43	772.8	66.6	19.2	52	wsw.			1		0			0	0		M. Stephan, Director.
Montlouis l'Instituteur	25.21	640.3	30.05	763.3	53.6	12.0	27	sw.	7.4	3.3			0			0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	30.31	769.8	30.44	773.1	71.6	22	36	e.			1		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.67	753.7	30.45	773.5	61.5	16.4	47	wsw.			1		0			0	0	clear	M. Hasse, Director
Nantes, Observatory	30.42	772.6	30.58	776.7	52.3	11.3	76	wnw.			0–1		10		w.	0	0		M. Larocque, Director.
Perpignan, Observatory	30.34	770.5	30.45	773.3	72.3	22.4	29	se.	5.6	2.5			1		w.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.60	548.7			34.9	1.6		ne.			1		1		ne.	0	0	clear	Gen'l de Nansouty, Dir.
Privas, Normal School	29.41	746.9	30.45	773.3	68.0	20	35	n.			1	1	1	n.	n.	0	0	clear	M. Tailleu.
Puy de Dôme Obs'y, Summit	25.59	650.1			49.8	9.9	55	se.			1		0			0	0	clear	M. Alluard, Director.
Rochefort, Naval Obs'y	30.50	774.7	30.53	775.5	50.0	10.0	92	w.			1		mist			0.008	0.2	misty	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	30.32	770.2	30.54	775.8	52.3	11.3	78	nw.			1		8		nw.	0	0	very cloudy	M. Mouillot, Director.
Rodez, Normal School	28.34	719.7	30.48	774.1	59.0	15	52	ne.			1		0			0	0	clear	M. Serger, Director.
Rouen, Normal School	30.46	773.7	30.51	774.9	50.4	10.2	79	sw.			1		10			0	0	covered	M. Platrier, Director.
Saint Maur, Observatory	30.35	770.8	30.51	775.0	48.6	9.2	96	ssw.			1		10			0	0		M. Renou, Director.
Toulouse, Observatory	29.81	757.1	30.54	775.7	62.1	16.7	66	n.			1		1		w.	0	0	clear	M. Baillaud, Director.
Versailles, Observatory	30.00	762.1	30.50	774.6	51.4	10.8	80	w.			1					0	0		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	30.23	767.8	30.52	775.2	49.3	9.6	96	wsw.			1		9	w.		0	0		M. Marié Davy, Director
GERMAN.																			
Hamberg	29.56	750.9	30.43	772.9	57.7	14.3	50	sw.			3	0	2 s			0	0		Prof. Dr. Hoh.
Berlin	30.04	763 0	30.22	767.5	57.0	13.9	61	nw.			1		6			0	0		Prof. Dr. Arndt.
Breslau	29.77	756.1	30.30	769.7	56.1	13.4	48	w.			4		3	nw.		0	0		Royal University Obs'y.
Carlsruhe	30.02	762.6	30.47	773.9	60.1	15.6	63	sw.			2		0			0	0	foggy	Albert Senz.
Cassel	29.59	751.5	30.30	769.7	60.8	16.0	45	w.			4		2	w.		0	0		Dr. H. Möhl.
Frankfort on the Main	30.03	762.7	30.39	772.0	60.8	16.0	63	sw.			1		2			0	0		Physical Society.
Friedrichshafen	29.05	737.9	30.53	775.4	48.9	9.4	77	s.			3		0			0	0		Wilhelm, Chief Tel.
Hamburg	30.14	765.5	30.23	767.9	48.2	9.0	91	wsw.			7		10			0	0		E. Preiler.
Kiel	30.10	764.6	30.12	765.0	48.2	9.0	91	sw.			4		10			0.012	0.3		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.90	759.4	30.32	770.1	58.3	14.6	52	sw.			4		7			0	0		H. Leppig, Asst.
Magdeburg	30.08	764.0	30.27	768.8	57.2	14.0	67	w.			4	0	4 ks		w.	0	0		Dr. Assmann.
Memel	29.89	759.1	29.93	760.3	40.3	4.6	92	wnw.			6		10 s						Issermann.
Munich	28.62	726.9	30.51	775.0	58.3	14.6	51	nw.			1		1			0	0		Central Station
Neufahrwasser	30.05	763.3	30.07	763.7	51.3	10.7	80	w.			3		1c			0.004	0.1		A. Lothes.
Neustadt, Palatinate	29.90	759.5	30.44	773.1	62.1	16.7	55	w.			2		0			0	0		Dicknether.
Stuttgart	29.50	749.3	30.40	772.1	59.9	15.5	63	e.			1		0			0	0		Prof. Dr. Schoder.
Wustrow	30.12	765.1	30.15	765.7	44.6	7.0	96	sw.			5		10 s			0	0		Profs. Brandes & Reimer.
GREEK.																			
Athens	29.87	758.8	30.27	768.8	61.0	16.1		ne.			2.0		5 k			0	0		Schmidt & Wourlisch.
INDIAN.																			
Bellary	28 38	720.8			93.0	33.9	10	se.	4.8	2.1		0	0			0	0	blue sky	
Kurrachee	29.95	760.7	30.00	762.0	86.9	30.5	36	wnw.	16	7.2			0			0	0	misty	
Deesa	29.41	747.0	29.88	758.8	90.6	32.6	14	nnw.	13.2	5.9			1	nnw.		0	0	d. clouds	
Bombay	29.84	757.8	29.87	758.8	82.7	28.2	75	wnw.	14	6.3			0			0	0	blue sky	
Poona, Yarrowda	27.99	710.9	29.79	756.7	92.9	33.8	18	wnw.	20	8.9			2	wsw.		0	0	d. clouds	
Belgaum	27.33	694.1	29.78	756.5	92.5	33.6	14	ese.	6	2.7			0			0	0	misty	
Lahore	29.21	741.9	29.96	760.9	79.9	26.6	19	n.	0.6	0.3			0			0	0	blue sky	
Roorkee	29.01	736.8	29.92	759.9	75.4	24.1	21	nw.	2.7	1.2			0			0	0		
Agra	29.37	746.0	29.94	760.4	83.2	28.4	17	w.	3.3	1.5			0			0	0		
Nagpur	28.76	730.6	29.78	756.3	96.0	35.6	23	sw.	7.2	3.2			4	w.		0	0	d. clouds	
Jubbulpore	28.58	725.8	29.92	760.1	83.8	28.8	19	ne.	5.0	2.2			0			0	0	blue sky	
Lucknow	29.54	750.1	29.91	759 7	87.1	30.6	12	wsw.	4.0	1.8			0			0	0	blue sky	
Allahabad	29.60	751.8	29.91	759.8	83.7	28.7	14	nw.	2.0	0.9			1			0	0	d. clouds	
Patna	29.71	754.5	29.89	759.2	85.4	29.7	26	wnw.	6.9	3.1			8	wnw.	wnw.	0	0	d. clouds	
Hazaribagh	27.89	708.3	29.90	759.5	78.3	25.7	29	nw.	10.5	4.7			4			0	0		
Cuttack	29.76	755.8	29.84	757 8	92.0	33.3	25	ssw.	2.2	1.0			0			0	0	blue sky	
Calcutta, Alipore	29.84	758.0	29.86	758.5	85.0	29.4	36	n.	2.0	0.9			2	sw.		0	0	d. clouds	
Dhubri	29.70	754.3	29.82	757.4	80.2	26.8	44	calm	1.9	0.8			0			0	0	blue sky	
Chittagong	29.83	757 6	29.92	760.0	78.5	25.8	84	sw.	5.2	2.3			0			0	0	blue sky	
Sibsagar	29.53	750.0	29.87	758.7	72.5	22.5	68	ne.	4.1	1.8			0			0	0	blue sky	
Jeypore	28.50	724.0	29.94	760.6	83.1	28.4	26	nnw.	3.5	1.6			0			0	0	blue sky	
Zanzibar, Africa	29.86	758.4			84.5	29.2	67	ne.	8.8	3.9			2			0	0	d. clouds	
Trichinopoly	29.63	752.6			91.3	32.9	27	e.	2	0.9			3			0	0	d. clouds	
ITALIAN.																			
Udine	30.03	762.8	30.45	773.3	63.1	17.3	41	sw.	0.7	0.3			0			0	0		Prof. Giovanni Clodig.
Milan	29.94	760.4	30.46	773.7	61.7	16.5	63	w.	1.8	0.8			1			0	0		Prof. Schiaparelli.
Padua	30.30	769.5	30.41	772.3	60.4	15.8	55	ssw.	1.3	0.6			0			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.53	750.0	30.45	773.4	59.9	15.5	63	se.	2.5	1.1			0			0	0		Prof. P. F. Denza.
Genoa	30.24	768.2	30.44	773.1	63.3	17.4	49	sw.	2.5	1.1			0			0	0		Prof. G. M. Garibaldi.
Mondovi	28.52	724.4	30.46	773.7	60.6	15.9	42	n.			4		1	ese.		0	0		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
ITALIAN.—Continued.																			
Pesaro	30.39	772.0	30.44	773.2	56.7	13.7	67	n.	8.1	3.6			0			0	0		Prof. Luigi Guidi.
Florence	30.15	765.7	30.40	772.2	68.0	20.0	30	n.			2		0			0	0		Prof. Costantino Pitter.
Leghorn	30.27	768.9	30.36	771.1	61.7	16.5	58	nw.	18.1	8.1			0			0	0		Prof. P. Monte.
Rome	30.18	766.6	30.35	771.0	67.3	19.6	38	wnw.	3.8	1.7			0			0	0		Prof. P. S. Ferrari.
Lecce	30.07	763.7	30.32	770.2	62.2	16.8	48	nw.	19.9	8.9			0			0	0		Prof. C. de Giorgi.
Cosenza	29.43	747.4	30.33	770.3	58.6	14.8	74	nnw.	11.2	5.0			0			0	0		Prof. D. Conti.
Cagliari	30.16	766.0	30.35	770.9	64.9	18.3	33	nw.			2		0			0	0		Prof. A. Pacinotti.
Palermo	30.10	764.4	30.35	770.8	63.0	17.2	56	ne.	7.4	3.3			1			0	0		Prof. G. Ciacciatore.
Syracuse	30.24	768.1	30.28	769.2	60.1	15.6	74	e.	6.3	2.8			1	w.		0	0		Prof. Vincenzo Guiliano.
Sub-series.																			
Naples, S. It	29.81	757.2	30.33	770.3	65.5	18.6	34	ne.	13.6	6.1			1	n.		0	0		Prof. T. Brioschi.
Stelvio	22.55	572.7			28.6	— 1.9	96	se.			2		0			0	0	clear	Prof. P. F. Denza.
Valdobbia	22.58	573.6			39.7	4.3	42	e.			2		0			0	0	clear	Prof. P. F. Denza.
JAPANESE.																			
Aomori	30.21	767.3	30.24	768.1	33.0	0.6	68	e.	8.5	3.8		0	0			0	0	clear	K. Ogawa.
Hakodate	30.18	766.8	30.20	767.1	36.5	2.5	82	wsw.	2.4	1.1			5			0	0	fair	
Hiroshima, I. M. Obs'y	30.20	767.1	30.21	767.3	40.9	4.9	78	nne.	6.9	3.1		0	0			0	0	clear	K. Sasaki.
Kanazawa	30.15	765.8	30.26	768.6	36.3	2.4	80	se.	5.0	2.2		0	0			0	0		S. Endo.
Kioto	30.06	763.5	30.24	768.1	34.9	1.6	73	nnw.	0.3	0.1		0	0			0	0	clear	M. Tojima.
Kochi	30.24	768.1	30.26	768.6	44.1	6.7	76	nne.	4.6	2.1		0	0			0	0	clear	
Nagasaki, I. M. Obs'y	30.03	762.7	30.24	768.1	44.6	7.0	75	w.	0.5	0.2		0	0			0	0	clear	S. Takehayashi.
Niigata	30.23	767.8	30.27	768.8	35.8	2.1	86	ese.	1.3	0.6		0	0			0	0	clear	H. Midzushima.
Nobiru	30.27	768.8	30.29	769.3	27.4	— 2.6	92	nnw.	8.8	3.9		0	0			0	0	fair	
Supporo					29.5	— 1.4	75	e.	12.0	5.4			5			0	0	clear	The Staff.
Tokei Obs'y, Yeddo	30.21	767.3	30.28	769.1	38.3	3.5	85	ne.	3.5	1.6		0	0			0	0	clear	Y. Kuwamuea.
Wakayama	30.19	766.8	30.25	768.3	41.9	5.5	69	n.	1.6	0.7		0	0						
MAURITIUS.																			
Mauritius Observatory	29.67	753.6	29.86	758.4	81.0	27.2	78	ese.	22.5	10.1		1 c;cs	5 ks;n		ese.	0.02	0.5	fair	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.76	603.4	29.98	761.4	55.4	13.0	81	sw.				0	0			0	0	clear	Vicente Fernandez.
Leon	24.42	620.2	30.16	766.1	54.3	12.4	83	n.			1	0	0			0	0	foggy	Prof. M. Leal.
Mazatlan	29.73	755.2	29.99	761.8	62.0	16.7	54	e.	0.9	0.4		1 cs	0			0	0	hazy	F. Quijano, C. E.
Mexico, Central Obs'y	23.13	587.4	30.23	767.9	50.0	10.0	73	nw.	1.3	0.6		0	0			0	0	fine	M. Tena, M. D.
Morelia	24.19	614.3	30.34	770.5	54.9	12.7	78	ne.			2	0	0			0	0		The Staff.
Pabellon, Aguascalientes	24.03	610.4	30.15	765.8	47.5	8.6	62					3	0	sw.		0	0	clear	M. Y. de Leon, M. E.
Puebla, Catholic Institute	23.40	594.3	30.16	766.2	52.7	11.5	86	n.	0.2	0.1		0	4		se.	0	0		Prof. P. Spina.
San Luis Potosi	24.28	616.7	30.27	769.0	52.7	11.5	55	nne.			1		10		w.	0	0	covered	G. Barroeta, M. D.
Vera Cruz																			
Zacatecas	22.60	573.3	30.28	768.4	49.9	9.9	50	nnw.	3.5	1.5		0	0			0	0	fine	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.39	772.0	30.39	772.0	51.6	10.9		wsw.			5					0	0		
Groningen	30.21	767.2	30.26	768.6	49.3	9.6		sw.			5					0	0		
Helder	30.26	768.7	30.26	768.7	48.2	9.0		ssw.			4					0	0		
Hellevoetsluis	30.35	771.0	30.35	771.0	50.2	10.1	84	sw.			4					0	0		
Utrecht	30.31	769.9	30.36	771.1	51.3	10.7	85	sw.			5		8			0.004	0.1	very cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.64	752.9	29.71	754.5	44.6	7.0	79	sse.	16	7			8			0.472	12.0		
Brono	29.35	745.5	29.39	746.5	37.2	2.8	69	w.	22	10			3			0.063	1.6		
Christiania	29.54	750.4	29.69	754.1	48.4	9.1	32	wsw.	7	3			9			0	0		
Gjæsvær	29.01	736.8	29.03	737.4	23.5	— 4.7		ese.			4		2						
Lodingen	28.88	733.6	28.93	734.8	34.5	1.4	91	sw.			6		10			0.209	5.3		
PORTUGUESE.																			
Angra, Azores					60.4	15.8	89	s.	6.9	3.1			4			0	0		Dr. J. A. Sampaio.
Campo Major	29.41	747.1	30.40	772.3	69.8	21.0	40	ese.	3.8	1.7			0			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.20	767.1	30.29	769.3	65.7	18.7	58	sw.	1.8	0.8			0			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	30.10	764.5	30.46	773.7	62.6	17.0	58	ne.	6.9	3.1			0			0	0		The Staff.
Ponta Delgada, Azores	30.28	769.2	30.35	771.0	64.8	18.2	71	s.	5.6	2.5			4			0	0		
Saint Paul de Loando	29.65	753.1	29.85	758.1	82.4	28.0	87	wnw.	1.8	0.8			3	se.		0	0		
Serra da Estrella	25.68	652.3	30.41	772.4	55.4	13.0	38	ese.	6.3	2.8			0						
RUSSIAN.																			
Akmolinski	28.81	731.8	29.97	761.2	15.3	— 9.3	91	sw.	16	7		5 c	0			0.016	0.4		Major K. Lasarew.
Archangel	29.44	747.8	29.40	748.3	16.9	— 8.4	79	s.	4	2			10			0	0		Capt. Seeliwerstow.
Astrakhan	29.91	759.7	29.83	757.6	42.8	6.0	78	wsw.	13	6			10 n			blank	blank		Capt. Wisganow.
Barnaul	29.56	750.9	30.10	764.4	24.4	— 4.2	77	wsw.	9	4			10			0	0		Meteorological Obs'y.
Dorpat	29.28	743.6	29.52	749.9	37.4	3.0	98	w.	13	6			10 n			0.071	1.8	light rain	Observatory.
Ekaterinburg	28.50	723.8	29.50	749.3	20.8	— 6.2	51	w.	18	8		2 c;cs	0			0	0	light clouds	Meteorological Obs'y.
Kasan	29.40	746.8	29.69	754.0	19.8	— 6.8	55	n.	2	1			8			0	0		Observatory.
Kertch	29.91	759.7	29.93	760.2	43.0	6.1	84	wnw.	13	6			10 n			0.083	2.1		Lagorio & Sastyres.
Kieff	29.39	746.4	30.03	762.8	45.3	7.4	40	wnw.	9	4		7 c;cs	0			0	0	light clouds	Observatory.
Lugan	29.58	751.2	29.78	756.5	39.2	4.0	73	nw.	13	6			10			0.024	0.6		Meteorological Obs'y
Moscow	29.30	744.3	29.81	757.1	25.7	— 3.5	47	s.	7.8	3.5		0	0			0.055	1.4		Meteorological Obs'y.
Nikolaiev	30.05	763.2	30.12	765.0	41.9	5.5	68	nw.	45	20			10 n			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor	29.93	760.2	30.02	762 4	4.6	—15.2	86	ne.	9	4			10			0.126	3.2		Lieut. Iwanow.
Pekin, China	30.02	762.5	30.16	766.1	48.4	9.1	20	nw.	16	7		0	0			0	0		Physical Observatory.
St. Petersburg	29.32	744.8	29.34	745.2	33.6	0.9	89	ssw.	20	9			10 n			0.043	1.1	snowing	Central Physical Obs'y.
Tashkend, Laboratory	28.52	724.3	30.09	764.2	57.2	14.0	53	calm	0	0			8			0	0		Teich, A. M.
Tiflis	28.47	723.0	29.89	759.2	51.3	10.7	59	calm	0	0			10 n			0.016	0.4	raining	Physical Observatory.
Vladivostok	30.02	762.6	30.09	764.3	17.1	— 8.3	84	e.	9	4		0	8 k			0	0		
Warsaw	29.75	755.6	30.18	760.5	50.5	10.3	74	wsw.	18	8			10 ks						Astronomical Obs'y.
Wilna	29.45	748.1	29.88	759.0	39.2	4.0	95	sw.	4	2			10			0.079	2.0	heavy cl'ds.	Berg, Assistant.
Yeniseisk	29.65	753.0	29.94	760.5	31.3	— 0.4	61	sw.	20	9			7			0	0		M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	30.34	770.6	30.45	773.3	68.0	20	43	sw.	4.5	2.0			0			0	0	clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.43	773.0	30.49	774.5	62.1	16.7	66	ne.	2.5	1.1		0	0			0	0	clear	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.49	698.3	30.43	772.8	65.8	18.8	24	ne.	2.0	0.9		0	0			0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	28.23	717.0	30.45	773.3	66.6	19.2	34	sw.	3.1	1.4		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y	30.31	769.8	30.46	773.7	68.4	20.2	47	ese.	2.5	1.1		0	0			0	0	clear	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.50	749.3	30.39	771.9	66.2	19.0	61	calm	0	0			0			0.008	0.2	clear	R. Gil Vallanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I	30.11	764.7	30.17	766.4	69.0	20.6	84	calm	0	0		0	3 k;s		nne.	0	0	fair	Benito Vines, S. J.
Manilla, Philippine Islands	29.91	759.8	29.97	761.3	79.7	26.5	73	se.	11.0	4.9		0	1 ks			0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.29	769.3	30.39	771.8	67.8	19.9	33	e.	10.3	4.6		0	0			0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	30.11	764.9	30.21	767.2	76.6	24.8	69	ne.	11.6	5.2		3 cs	0	ne.		0	0	clear	Manuel Maeu.
Tuguegarao, Philippine Id's	29.85	758.2	29.98	761.5	74.1	23.4	78	nnw.	5.1	2.3		0	2 k		nne.	inap.	inap.	clear	José L. Yrastorza.
SWEDISH.																			
Haparanda	29.12	739.6	29.16	740.6	27.3	— 2.6	92	se.			4		10			0.165	4.2	snowing	
Umea	29.24	742.7	29.29	744.0	45.3	7.4	59	nw.			6		4			0.067	1.7		
Hernosand	29.36	745.8	29.41	747.1	44.4	6.9	27	w.			6		3			0	0		
Stockholm	29.48	748.7	29.65	753.2	47.8	8.8	55	w.			6		9			0.091	2.3		
Wisby	29.71	754.6	29.77	756.1	42.1	5.6	82	w.			4		3			0.035	0.9		
Sub-series.																			
Upsala	29.51	749.5	29.60	751.7	48.9	9.4	47	wnw.	9.6	4.3			6	wnw.		0.004	0.1		S. G. Fineman.
SWISS.																			
Geneva	29.06	738.2	30.48	774.3	54.7	12.6	48	n.			2					0	0	clear	The Observatory.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
TURKISH.																			
Constantinople	.....	.....	30.33	770.4	51.3	10.7	39	ene.	19	8.5	.....	.....	2	.....	n.	0	0	.....	The Observatory.
Valona	.....	.....	30.32	770.2	64.0	17.8	.....	w.	.....	.....	1	.....	2	.....	.....	0	0	slightly cld'y	A. Bertrand.
Sub-aertes.																			
Beirut, Lee Obs'y, Syria	.....	.....	29.97	761.3	62.1	16.7	80	sw.	.....	.....	3	0	7 n	.....	sw.	0.095	2.4	.....	Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	29.47	748.5	29.56	750.8	41.5	5.3	81	w.	4	1.8	.....	.....	fg.	.....	.....	0.24	6 1	dense fog	J. O. Barnes.
Alpena, Michigan	29.30	744.2	30.00	762.0	24	— 4.4	88	nw.	10	4 5	.....	.....	10 s	.....	.....	0.53	13.5	cloudy	Jas. J. Fitzgerald.
Atlanta, Georgia	28.96	735.6	30.17	766.3	47.5	8.6	86	nw.	13	5.8	.....	0	1 s	.....	calm	0.45	11.4	clear	H. Hall.
Atlantic City, New Jersey	29.69	754.1	29.70	754.4	52	11.1	93	w.	8	3.6	.....	6 k	0	sw.	.....	0.50	12.7	fair	Jas. M. Watson.
Augusta, Georgia	29.93	760.2	30.13	765.3	59	15.0	93	w.	3	1.3	.....	.....	10 k	.....	w.	0.26	6.6	cloudy	John Healy.
Baltimore, Maryland	29.70	754.4	29.75	755.6	50	10.0	93	w.	2	0.9	.....	hz.	fg.	.....	.....	0.39	9.9	light haze	Robert Seyboth.
Barnegat, New Jersey	29.66	753.4	29.68	753.9	52.5	11.4	88	w.	20	8.9	.....	0	7 k	.....	w.	0.72	18.3	fair	Chas. F. Merritt.
Bismarck, Dakota	28.58	725.9	30.50	774.7	10	—12.2	80	nw.	12	5.4	.....	.....	10 s	.....	.....	0	0	cloudy	Cyrus Cramer.
Boise City, Idaho	27.20	690.9	30.12	765.0	27	— 2.8	88	w.	4	1.8	.....	2 k	0	calm	.....	0	0	clear	B. E. Light.
Boston, Massachusetts	29.38	746.2	29.54	750.3	36.0	2.2	100	n.	5	2.2	.....	.....	fg.	.....	.....	0.55	14.0	dense fog	O. B. Cole.
Brownsville, Texas	30.13	765.3	30.18	766.6	54	12.2	93	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. C. Galloway.
Buffalo, New York	28.90	734.0	29.70	754.4	34.5	1.4	83	sw.	36	16.1	.....	.....	10 ks	.....	sw.	0.54	13.7	cloudy	Wm Finn.
Burlington, Vermont	29.18	741.2	29.49	749.0	31.5	— 0.3	94	n.	5	2.2	.....	.....	10 n	.....	n.	0.45	11.4	sleeting	G. C. Schaeffer.
Cairo, Illinois	29.92	760.0	30.34	770.6	38.3	3.5	74	nw.	12	5.4	.....	.....	10 s	.....	nw.	0.03	0.8	cloudy	W. H. Ray.
Campo, California	27.47	697.7	30.08	764.0	22.5	— 5.3	88	e.	3	1.3	.....	0	0	.....	.....	0	0	clear	W. H. Clendenon.
Camp Thomas, Arizona	27.33	694.2	30.11	764.8	29	— 1.7	67	s.	.....	.....	1	0	0	.....	.....	0	0	clear	J. T. Fitzgerald.
Cape Henry, Virginia	29.83	757.7	29.85	758.2	59	15.0	70	sw.	20	8.9	.....	0	0	.....	.....	0.47	11.9	clear	J. E. Lanouette.
Cape May, New Jersey	29.69	754.1	29.72	754.9	51	10.6	86	w.	24	10.7	.....	2 k	0	w.	.....	1.01	25.7	clear	W. Bolten.
Castroville, Texas	29.42	747.3	30.25	768.3	39	3.9	82	nw.	4	1.8	.....	0	0	.....	.....	0	0	clear	T. Jones.
Cedar Keys, Florida	30.14	765.5	30.16	766.1	70	21.1	78	s.	15	6.7	.....	1 ck	1 k	.....	.....	0	0	clear	F. W. Mixer.
Champaign, Illinois	29.35	745.5	30.21	767.3	31.0	— 0.6	88	nw.	15	6.7	.....	.....	10 s	.....	nw.	0.32	8.1	cloudy	L. A. Welsh.
Charleston, S. Carolina	30.01	762.2	30.07	763.8	61	16.1	87	sw.	8	3.6	.....	3 ck	2 s	sw.	sw.	0.27	6.9	fair	J. H. Smith.
Charlotte, N. Carolina	29.14	740.1	30.02	762.5	51.0	10.6	93	w.	10	4.5	.....	.....	10 s	.....	w.	0.41	10.4	cloudy	D. O. Donoghue.
Chattanooga, Tennessee	29.37	746.0	30.22	767.6	48.0	8.9	63	nw.	4	1.8	.....	6 k	0	nw.	.....	0.38	9.7	fair	B. L. Goulding.
Cheyenne, Wyoming	24.06	611.1	30.24	768.1	19.3	— 7.1	87	s.	12	5.4	.....	.....	10 s	.....	.....	0.02	0.5	cloudy	E. McGovern.
Chicago, Illinois	29.42	747.3	30.16	766.1	30.9	— 0.6	88	nw.	8	3.6	.....	.....	10 s	.....	.....	1.10	27.9	cloudy	J. Mitchell.
Chincoteague, Virginia	29.75	755.6	29.77	756.1	54	12.2	86	se.	10	4.5	.....	0	1 s	.....	.....	0.38	9.7	clear	F. C. Pratz.
Cincinnati, Ohio	29.48	748.8	30.17	766.3	38.1	3.4	72	w.	12	5.4	.....	.....	10 s	.....	w.	0.46	11.7	cloudy	R. B. Watkins.
Cleveland, Ohio	29.18	741.2	29.96	761.0	33.5	0.8	78	w.	24	10.7	.....	.....	10 s	.....	nw.	0.62	15.8	cloudy	J. B. Newlin.
Coleman City, Texas	28.38	720.8	30.22	767.6	39	3.9	82	s.	8	3.6	.....	0	0	.....	.....	0	0	clear	L. Dorman.
Columbus, Ohio	29.17	740.9	30.06	763.5	36	2.2	69	w.	20	8.9	.....	.....	10 ks	.....	w.	0.48	12.2	cloudy	D. Cuthbertson.
Concho, Texas	28.29	718.6	30.26	768.6	35	1.7	82	calm	0	0	.....	0	0	.....	.....	0	0	clear	W. W. McConihe.
Davenport, Iowa	29.56	750.8	30.25	768.3	30	— 1.1	68	nw.	8	3.6	.....	0	7 s	.....	nw.	0.80	20.3	fair	R. R. Martin.
Dayton, Washington T'y	28.38	720.8	30.19	766.8	24.2	— 4.3	83	se.	4	1.8	.....	0	0	.....	.....	0	0	clear	H. Clifford.
Deadwood, Dakota	25.53	648.5	30.37	771.4	9	—12.8	83	ne.	3	1.3	.....	.....	10 n	.....	.....	0.13	3.3	light snow	G. W. Scott.
Decatur, Texas	.....	.....	.....	.....	50	10.0	50	e.	9	4.0	.....	0	0	.....	.....	0	0	clear	D. J. Carr.
Delaware Breakwater, Del.	29.69	754.1	29.71	754.6	53	11.7	86	sw.	32	14.3	.....	0	1 s	.....	w.	0.39	9.9	clear	A. Schneider.
Denison, Texas	29.49	749.0	30.32	770.1	34.0	1.1	78	ne.	3	1.3	.....	0	0	.....	.....	0.01	0.3	clear	J. McGlone.
Denver, Colorado	24.72	627.9	30.16	766.1	23.0	— 5.0	67	s.	3	1.3	.....	0	0	.....	.....	0	0	clear	F. M. Neal.
Des Moines, Iowa	29.41	747.0	30.37	771.4	28	— 2.2	64	n.	4	1.8	.....	4 c	6 s	w.	n.	0.20	5.1	cloudy	F. W. Conrad.
Detroit, Michigan	29.25	742.9	30.00	762.0	32.0	0.0	88	nw.	20	8.9	.....	.....	10 s	.....	w.	0.62	15.7	cloudy	C. F. R. Wappenhans.
Dodge City, Kansas	27.65	702.3	30.38	771.6	26	— 3.3	88	e.	4	1.8	.....	0	0	.....	.....	0	0	clear	E. A. Thomas.
Dubuque, Iowa	29.48	748.8	30.23	767.8	26.2	— 3.2	64	nw.	4	1.8	.....	.....	10 s	.....	calm	0.20	5.1	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.51	749.5	30.25	768.3	20	— 6.7	70	w.	16	7.2	.....	0	3 s	.....	w.	0	0	clear	N. B. Conger.
Eagle Pass, Texas	29.42	747.3	30.24	768.1	41.1	5.1	92	se.	2	0.9	.....	0	0	.....	.....	0	0	clear	F. Belford.
Eagle Rock, Idaho	25.23	640.8	30.10	764.5	—10	—23.3	78	n.	3	1.3	.....	0	0	.....	.....	0.05	1.3	clear	J. M. Clifford.
Eastport, Maine	29.48	748.8	29.55	750.6	30	— 1.1	88	ne.	10	4.5	.....	.....	10 s	.....	ne.	0.40	10.2	cloudy	J. H. Melton.
El Paso, Texas	26.27	667.2	30.07	763 8	29	— 1.7	49	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.08	738.6	29.85	758.2	34	1.1	88	w.	26	11.6	.....	.....	10 s	.....	sw.	1.08	27.4	cloudy	R. H. Paxton.
Escanaba, Michigan	29.41	747.0	30.12	765.0	29	— 1.7	77	n.	6	2.7	.....	.....	10 s	.....	n.	0	0	cloudy	C. Dill.
Florence, Arizona	28.56	725.4	30.14	765.5	39.5	4.2	39	w.	2	0.9	.....	0	0	.....	.....	0	0	clear	R. R. Herman.
Fort Apache, Arizona	25.10	637.5	30.12	765.0	17	— 8.3	58	calm	0	0	.....	0	0	.....	.....	0	0	clear	W. C. Barnes.
Fort Assinnaboine, Montana	27.54	699.5	30.55	776.0	9	—12.8	60	ne.	7	3.1	.....	.....	10 s	.....	ne.	0.01	0.3	cloudy	B. O. Lenoir.
Fort Bennett, Dakota	28.83	732.3	30.53	775.4	15	— 9.4	83	n.	8	3.6	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	T. Gibson.
Fort Benton, Montana	27.54	699.5	30.52	775.2	8	—13.3	100	ne.	7	3.1	.....	.....	10 n	.....	.....	0.20	5.1	light snow	S. Wheaton.
Fort Buford, Dakota	28.45	722.6	30.59	777.0	— 1	—18.3	72	s.	2	0.9	.....	.....	10 s	.....	calm	0.01	0.3	cloudy	A. H. Bell.
Fort Custer, Montana	27.13	689.1	30.46	773.7	13	—10.6	66	n.	3	1.3	.....	.....	10 n	.....	calm	inap.	inap.	light snow	V. Verge.
Fort Davis, Texas	25.28	642.1	30.16	766.1	29	— 1.7	70	calm	0	0	.....	6 cs	0	.....	calm	0	0	fair	J. Williams.
Fort Elliott, Texas	27.39	695.7	30.22	767.6	29	— 1.7	59	e.	1	0.4	.....	.....	10 s	.....	e.	0	0	cloudy	W. J. Cundall.
Fort Gibson, Indian T'y	29.79	756.7	30.38	771.6	33.0	0.6	88	n.	3	1.3	.....	0	0	.....	.....	0.04	1.0	clear	J. B. Campbell.
Fort Grant, Arizona	25.28	642.1	30.11	764.8	36	2.2	53	e.	6	2.7	.....	0	0	.....	.....	0	0	clear	T. J. Macgowan.
Fort Griffin, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	G. H. Hayne.
Fort Keogh, Montana	27.89	708.4	30.54	775.7	8	—13.3	58	ne.	4	1.8	.....	3 c	0	.....	.....	0.01	0.3	clear	W. B. Stockman.
Fort Macon, North Carolina	30.00	762.0	30.00	762.0	59	15.0	93	w.	14	6.3	.....	5 cs	5 ks	w.	w.	0.65	16.5	threatening	L. Leonardy.
Fort McKavett, Texas	27.93	709.4	30.25	768.3	39.1	3.9	65	sw.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. E. Thatcher.
Fort Missoula, Montana	26.90	683.2	30.28	769.1	6	—14.4	76	ne.	2	0.9	.....	0	0	.....	.....	0.01	0.3	clear	J. H. Jones.
Fort St. Michaels, Alaska	29.99	761.7	30.02	762.5	21	— 6.1	100	nw.	12	5.4	.....	.....	10 n	.....	.....	0.17	4.3	light snow	A. P. Leavitt.
Fort Shaw, Montana	26.65	676.9	30.45	773.4	6	—14.4	76	ne.	4	1.8	.....	8 k	0	nw.	.....	0.12	3.0	cloudy	A. L. Mathews.
Fort Sill, Indian Territory	29.02	737.1	30.31	769.9	30.5	— 0.8	94	ne	9	4.0	.....	0	0	.....	.....	0	0	clear	T. Cleary.
Fort Stevenson, Dakota	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. Burrows.
Fort Verde, Arizona	.....	.....	.....	.....	28.9	— 1.7	59	nw.	.....	.....	1	4 cs	0	w.	.....	0	0	fair	D. Brooks.
Fort Washakie, Wyoming	24.53	623.1	.....	.....	— 0.5	—18.1	68	w.	4	1.8	.....	6 c	1 k	.....	.....	0.07	1.8	fair	T. M. Ambler.
Fredericksburg, Texas	28.44	722.4	30.20	767.1	41	5.0	82	nw.	1	0.4	.....	0	0	.....	.....	0	0	clear	H. S. Miles.
Galveston, Texas	30.22	767.6	30.26	768.6	53.5	11.9	67	n.	4	1.8	.....	0	2 s	.....	.....	0	0	clear	E. O'C. MacInerney.
Grand Haven, Michigan	29.37	746.0	30.07	763.8	31.0	— 0.6	78	n.	8	3.6	.....	.....	10 s	.....	n.	0.64	16.3	cloudy	W. A. Reid.
Hatteras, North Carolina	29.95	760.7	29.97	761.2	57	13.9	93	sw.	16	7.2	.....	3 c	6 ks	sw.	.....	0.75	19.0	cloudy	R. M. Crawford.
Helena, Montana	25.97	659.6	30.34	770.6	14	—10.0	83	nw.	4	1.8	.....	.....	10 n	.....	.....	0.04	1.0	light snow	N. C. Smith.
Henrietta, Texas	29.36	745.7	30.40	772.1	33	0.6	88	e.	12	5.4	.....	0	0	.....	.....	0	0	clear	J. W. Byram.
Huron, Dakota	29.01	736.8	30.49	774.4	9.8	—12.3	76	nw.	14	6.3	.....	0	3 s	.....	.....	inap.	inap.	clear	S. W. Glenn.
Indianapolis, Indiana	29.33	745.0	30.17	766.3	33	0.6	78	w.	5	2.2	.....	.....	10 s	.....	w.	0.21	5.3	cloudy	O. Schutze
Indianola, Texas	30.22	767.6	30.26	768.6	56.4	13.6	62	ne.	16	7.2	.....	0	0	.....	.....	0	0	clear	I. A. Reed.
Jacksboro, Texas	29.11	739.4	30.32	770.1	36	2.2	79	e.	13	5.8	.....	0	0	.....	.....	0	0	clear	J. P. Sherry.
Jacksonville, Florida	30.12	765.0	30.17	766.3	65	18.3	78	sw.	7	3.1	.....	4 cs	0	w.	.....	0	0	fair	J. W. Smith.
Keokuk, Iowa	29.57	751.1	30.26	768.6	29.0	— 1.7	77	w.	6	2.7	.....	.....	10 s	.....	w.	0.84	21.3	cloudy	F. Z. Gosewisch
Key West, Florida	30.18	766.6	30.20	767.1	72.0	22.2	84	e	4	1.8	.....	0	1 s; fr	.....	.....	0	0	clear	L. M. Melbourne.
Kittyhawk, North Carolina	29.91	759.7	29.93	760.2	59	15.0	90	sw.	22	9.8	.....	6 c	0	w.	.....	0.14	3.6	fair	E. A. Beals.
Knoxville, Tennessee	29.12	739.6	30.18	766.6	45.8	7.7	76	sw.	7	3.1	.....	0	7 s	.....	w.	0.37	9.4	fair	J. A. Cody.
La Crosse, Wisconsin	29.40	746.7	30.22	767.6	24	— 4.4	100	nw.	8	3.6	.....	0	8 k	.....	nw.	0	0	fair	S. C. Emery.
La Mesilla, New Mexico	26.22	666.0	30.17	766.3	27.8	— 2.3	67	calm	0	0	.....	0	0	.....	.....	0	0	clear	N. D. Lane.
Leavenworth, Kansas	29.47	748.5	30.41	772.4	26	— 3.3	76	nw.	5	2.2	.....	.....	10 s	.....	.....	0.22	5.6	cloudy	A. W. Browne.
Lewiston, Idaho	29.39	746.5	30.25	768.3	28	— 2.2	59	calm	0	0	.....	0	0	.....	.....	0	0	clear	W. Blake.
Little Rock, Arkansas	29.98	761.5	30.31	769.9	42	5.6	73	n.	8	3.6	.....	0	8 s	.....	n.	0	0	cloudy	M. F. Burrows.
Los Angeles, California	29.80	756.9	30.20	767.1	39.3	4.1	73	e.	4	1.8	.....	0	0	.....	.....	0	0	clear	E. F. Kubel.
Louisville, Kentucky	29.60	751.8	30.19	766.8	36	2.2	69	w.	15	6.7	.....	.....	10 s	.....	.....	0.48	12.2	cloudy	H. C. Smith.
Lynchburg, Virginia	29.16	740.7	29.88	758.9	48.7	9.3	77	sw.	5	2.2	.....	0	0	.....	.....	0.11	2.8	clear	T. H. Breen.
Madison, Wisconsin	29.13	739.9	30.20	767.1	25	— 3.9	73	nw.	9	4.0	.....	.....	10 s	.....	nw.	0.53	13.5	cloudy	C. A. Shaw.
Marquette, Michigan	29.37	746.0	30.14	765.5	30	— 1.1	78	n.	8	3.6	.....	.....	10 s	.....	n.	0	0	cloudy	I. Gilligan.
Mason, Texas	28.54	724.9	30.23	767.8	37	2.8	82	sw.	3	1.3	.....	0	0	.....	.....	0.14*	3.6*	clear	A. M. Wilson.
Memphis, Tennessee	29.99	761.7	30.34	770.6	43	6.1	93	nw.	9	4.0	.....	0	8 s	.....	w.	0	0	cloudy	D. T. Flannery.

*Total for last 2 days.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind.		Clouds. Direction.		Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS
												Upper.	Lower.	Upper.	Lower.				
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–01	0–10	0–10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Milwaukee, Wisconsin	29.37	746.0	30.16	766.1	24	— 4.4	88	w.	11	4.9			10 s		w.	0.72	18.3	cloudy	W. Line.
Mobile, Alabama	30.19	766.8	30.23	767.1	52	11.1	83	n.	6	2.7		1 cs	0			0.59	15.0	clear	J. D. Paxton.
Montgomery, Alabama	29.96	761.0	30.20	767.1	50	10.0	86	nw.	4	1.8		0	1 s		sw.	0.37	9.4	clear	J. B. McLaughlin.
Moorhead, Minnesota	29.36	745.7	30.44	773.2	0	—17.8	68	n.	16	7.2		0	0			0	0	clear	H. Bessant.
Morgantown, W. Virginia	28.97	735.8	30.03	762.7	57.0	13.9	80	w.	28	12.5			10 s		w.	0.45	11.4	cloudy	J. Sprigg, jr.
Mt. Washington, N. H.	23.29	591.6	29.73	755.1	29.5	— 1.4	97	nw.	60	26.8			fg.		nw.	0.95	24.1	dense fog	J. G. Linsley.
Nashville, Tennessee	29.68	753.9	30.24	768.1	44.1	6.7	72	nw.	8	3.6		10 cs	0	w.		1.10	27.9	cloudy	L. A. Jesunofsky.
New Haven, Connecticut	29.45	748.0	29.57	751.1	47	8.3	100	sw.	5	2.2		2 c	7 s	sw.	sw.	0.96	24.4	clearing	J. H. Sherman.
New London, Connecticut	29.54	750.3	29.66	751.8	47	8.3	100	s.	8	3.6			10 n		s.	0.82	20.8	light rain	J. G. Lynch.
New Orleans, Louisiana	30.17	766.3	30.23	767.8	56.2	13.4	69	n.	8	3.6		1 cs	0			0.12	3.0	clear	A. J. Armstrong.
Newport, Rhode Island	29.52	749.8	29.57	751.1	44.8	7.1	100	sw.	18	8.0			10n; fg			0.96	24.4	light rain	W. McGillivray.
New River, N. Carolina					58	14.4	88	sw.			1	3 cs	5 s	w.		0.14	3.6	cloudy	C. C. Corbin.
New Shoreham, Rhode I'd	29.55	750.6	29.58	751.3	46.4	8.0	100	sw.	18	8.0			fg.			1.18	30.0	dense fog	W. Davis.
New York, New York	29.45	748.0	29.63	752.6	50	10.0	100	w.	12	5.4			10 s	w.		0.39	9.9	cloudy	E. B. Garriott.
Norfolk, Virginia	29.84	757.9	29.86	758.4	58	14.4	80	w.	13	5.8		0	0			0.26	6.6	clear	J. T. Eiker.
North Platte, Nebraska	27.41	696.2	30.47	773.9	20.6	— 6.3	82	ne.	6	2.7			10 n			inap.	inap.	light snow	E. F. Brady.
Olympia, Washington T'y	30.10	764.5	30.14	765.5	33.4	0.8	85	n.	4	1.8		0	0			inap.	inap.	clear	J. Dascomb.
Omaha, Nebraska	29.21	741.9	30.46	773.7	23.0	— 5.0	80	nw.	12	5.4			10 s		nw.	0	0	cloudy	A. Pollak.
Ooglaamie, Pt. Barrow, Alas.	29.78	756.4	29.80	756.9	10.6	—11.9	92	s.	4	1.8			10 s			0	0	cloudy	P. H. Ray.
Oswego, New York	29.21	741.9	29.55	750.6	40.5	4.7	80	w.	23	10.3			10 n	w.		0.75	19.0	light rain	S. W. Beall.
Palestine, Texas	29.73	755.1	30.30	769.6	37	2.8	39	n.	8	3.6		0	0			0	0	clear	L. M. Pindell.
Pensacola, Florida	30.18	766.6	30.21	767.3	55.2	12 9	86	n.	8	3.6		0	4 s		sw.	1.01	25.7	fair	M. McGauran.
Philadelphia, Pa	29.60	751.8	29.70	754.4	52	11.1	86	sw.	9	4.0		0	2 ks		sw.	0.56	14.2	fair	T. F. Townsend.
Pike's Peak, Colorado	17.50	444.5	30.09	764.3	— 6	—21.1	100	sw.	32	14.3		0	9 s		sw.	0.06	1.5	cloudy	L. M. Dey.
Ploche, Nevada	23.96	608.6	30.10	764.5	26	— 3.3	58	s.	4	1.8		4 k	0	sw.		0	0	fair	C. K. Kitchel.
Pittsburg, Pennsylvania	29.10	739.1	29.96	761.0	38.2	3.4	82	w.	16	7.2			10 n		w.	0.73	18.5	light rain	J. H. Bryce.
Port Eads, Louisiana	30.19	766.8	30.20	767.1	62.2	16.8	81	ne.	20	8.9		0	9 s		n.	1.54	39.1	cloudy	H. G. Christian.
Port Huron, Michigan	29.25	742.9	29.97	761.2	29.8	— 1.2	96	nw.	13	5.8			10 n			1.05	26.7	light snow	W. O. Bailey.
Portland, Maine	29.49	749.0	29.54	750.3	36.0	2.2	79	ne.	7	3.1			10 s		ne.	0.49	12.4	clearing	D. C. Murphy.
Portland, Oregon	29.98	761.5	30.05	763.3	35.0	1.7	79	nw.	7	3.1		0	0			0.03	0.8	clear	M. L. Hearne.
Portsmouth, N. Carolina					59	15.0	87	sw.	18	8.0		6 k	0	sw.		0.09	2 3	fair	F. P. Chaffee.
Prescott, Arizona	24.76	628.9	30.10	764.5	28	— 2.2	70	s.	3	1.3		0	0			0	0	clear	J. McN. Wright.
Provincetown, Mass	29.49	749 0	29.52	749.8	44	6.7	100	sw.	12	5.4			fg.			0.95	24.1	dense fog	P. T. Jenkins.
Punta Rassa, Florida	30.17	766.3	30.18	766.6	65.5	18.6	90	e.	8	3.6		0	0			0	0	clear	W. J. Evans.
Red Bluff, California	29.48	748 8	29.86	758.4	34.4	1.3	100	ne.	2	0.9			10 n			0.60	15.2	heavy snow	J. M. Frantz.
Rio Grande City, Texas	30.00	762.0	30.24	768.1	46	7.8	93	se.	3	1.3		5 c	0	calm		0	0	fair	W. H. Taylor.
Rochester, New York	28.90	734.0	29.60	751.8	36	2.2	89	w.	36	16.1			10 n		w.	0.55	14.0	light rain	A. T. Sherwood.
Roseburg, Oregon	29.34	745.2	29.90	759.4	35	1.7	89	calm	0				10 s		sw.	0.03	0.8	cloudy	J. J. Nanry.
Sacramento, California	29.79	756.7	29.87	758.7	42.5	5.8	92	se.	24	10.7			10 n			0.25	6.3	light rain	J. A. Barwick.
St. Louis, Missouri	29.68	753.9	30.31	769.9	34.0	1.1	78	nw.	8	3.6			10 s		w.	0.56	14.2	cloudy	J. H. Webber.
St. Paul, Minnesota	29.34	745.2	30.26	768.6	23.0	— 5.0	88	w.	4	1.8		2 ck	0	w.		0	0	clear	O. S. M. Cone.
St. Vincent, Minnesota	29.55	750 6	30.49	774.4	0	—17.8	100	nw.	16	7.2			10 s		calm	0	0	cloudy	G. Kingsbury.
Salt Lake City, Utah	25.63	651.0	30.15	765.8	26	— 3.3	44	nw.	2	0.9		3 cs	0			0.11	2.8	clear	J. Craig.
San Antonio, Texas	29.54	750.3	30.25	768.3	39.6	4.2	89	ne.	2	0.9		0	0			0	0	clear	E. Lane.
San Diego, California	30.05	763.3	30.12	765.0	43.3	6.3	88	ne.	4	1.8		1 clt	0			0.02	0.5	clear	A. C. Dobbins.
Sandusky, Ohio	29.29	744.0	30.01	762.2	34	1.1	89	nw.	30	13.4			10 s		nw.	0.59	15.0	cloudy	M. H. Perry.
Sandy Hook, New Jersey	29.59	751.6	29.63	752.6	51.0	10.6	86	w.	24	10.7		8 k	0	w.		0.58	14.7	cloudy	B. A. Blundon.
San Francisco, California	29.77	756.1	29.84	757.9	48	8.9	86	s.	9	4.0			10 n		sw.	0.86	21.8	light rain	N. Gorom.
Santa Fé, New Mexico	23.23	590.0	30.21	767.3	29.5	— 1.4	40	ne.	3	1.3		0	0			0	0	clear	H. N. Jones.
Savannah, Georgia	30.03	762.7	30.12	765.0	62	16.7	81	w.	5	2.2		3 ck	3 ks	s.	n.	0.06	1.5	fair	H. M. Ford.
Shreveport, Louisiana	30.06	763.5	30.31	769.9	41	5.0	92	n.	5	2.2		0	0			0	0	clear	E. N. Meekins.
Silver City, New Mexico	24.29	617.0	30.07	763.8	23	— 5.0	44	sw.	3	1.3		0	0			0	0	clear	J. B. Wallace.
Sitka, Alaska	30.36	771.1	30.42	772.7	31	— 0.6	74	e.	4	1.8		0	0			0	0	clear	J. J. McLean.
Smithville, North Carolina	30.02	762.5	30.06	763.5	58	14.4	100	w.	6	2.7			10 s		w.	0.71	18.0	cloudy	J. C. Rickli.
Spokane Falls, Wash. Ter.	28.18	715.8	30.31	769.9	15	— 9.4	76	calm	0	0		0	0			0.21	5.3	clear	D. Moore.
Springfield, Illinois	29.56	750.8	30.28	769.1	33	0.6	73	nw.	7	3.1		3 ck	7 k; s	w.	nw.	0.60	15.2	cloudy	T. B. Jennings.
Springfield, Massachusetts	29.39	746.5	29.53	750.0	45.8	7.7	100	s.	6	2.7		10 k	fg.	sw.		0.67	17.0	cloudy	T. S. Outram.
Springfield, Mo	28.86	733.0	30.42	772.7	33	0.6	88	nw.	6	2.7		0	0			0.05	1.3	clear	J. B. Marbury.
Stockton, Texas	27.14	689 3	30.22	767.6	29.0	— 1.7	67	sw.	4	1.8		0	0			0	0	clear	J. O'Dowd.
Thatcher's Island, Mass	29.53	750.0	29.59	751.6	35.0	1.7	100	ne.	10	4.5			10s; fg			0.87	22.1	cloudy	G. Liebmann.
Toledo, Ohio	29.29	744.0	30.02	762.5	34.8	1.6	70	w.	12	5.4			10 s		nw.	0.63	16.0	cloudy	A. Buell.
Tucson, Arizona	27.66	702.6	30.12	765.0	36	2.2	64	s.	6	2.7		0	0			0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.84	757.9	30.22	767.6	33.3	0.7	77	ne.	18	8.0		0	0			inap.	inap.	clear	R. P. Sibley.
Uvalde, Texas	29.24	742.7	30.22	767.6	40	4.4	89	e.	3	1.3		0	0			0	0	clear	E. C. Imlay.
Vicksburg, Mississippi	30.02	762.5	30.28	769.1	49	9.4	71	n.	5	2.2		0	0			0	0	clear	T. J. Kenan.
Visalia, California	29.59	751.6	29.97	761.2	48.5	9.2	56	e.	8	3.6			10 s		ne.	0.04	1.0	cloudy	J. T. Cochran.
Washington, D. C.	29.66	753.4	29.78	756.4	49	9.4	89	s.	1	0.4		1 k	fg.			0.34	8.6	cloudy	B. M. Pursell.
West Los Animas, Colorado	26.21	665.7	30.29	769.4	20	— 6.7	87	calm	0	0		0	0			inap.	inap.	clear	J. Grover.
Wickenburg, Arizona																			H. A. Kremp.
Williamsport, Pa	29.07	738.4	29.70	754.4	43.5	6.4	64	nw.	20	8.9			10 ks		w.	0.61	15.5	cloudy	B. F. Hough.
Wilmington, N. Carolina	29.98	761.5	30.04	763.0	60	15.6	87	w.	6	2.7		2 c	7 s	calm	sw.	0.25	6.3	cloudy	S. A. Haney.
Winnemucca, Nevada	25.48	647.2	29.98	761.5	22	— 5.6	73	ne.	16	7.2			10 s	calm		0	0	cloudy	J. R. Williams.
Yankton, Dakota	29.06	738.1	30.45	773.4	16	— 8.9	83	nw.	13	5.8			10 s			0	0	cloudy	J. H. Attield.
Yuma, Arizona	29.91	759.7	30.06	763.5	41.5	5.3	87	ne.	1	0.4		0	0			0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.06	560.3			54.0	12.2	74	calm	0	0		2 k	2 ks; s			0	0	fair	Joaquin Gomez.
Bridgetown, Barbados, W. I.	30.11	764.8	30.12	765.0	79	26.1	77	e.				5 k	5 ks	e.	e.	0	0	fair	J. A. Racker.
Buenaventura, U. S. C.	29.95	760.7	29.97	761.2	78	25.6	90	calm	0	0			10 ks		s.	0.10	2.5	cloudy	J. I. Plume.
Guadeloupe, W. I.	30.05	763.3	30.07	763.8	73	22.8	95	e.				9 k	1 n					rainy	B. Bigar.
Havana, Cuba, W. I.	30.17	766.3	30.22	767.6	74	23.3	82	calm	0	0			5 ks		calm	0	0	fair	A. Van Caneghem.
Kingston, Jamaica, W. I.	30.13	765.3	30.14	765.5	72.1	22.3	85	n.	2	0.9			10 s		e.	0	0	cloudy	Robert Johnston.
Navassa	30.18	766.6	30.26	768.6	76	24.4	81	e.	12	5.4		5 ck	2 s	se.	e.	0	0		F. M. Everett.
Paramaribo, S. A.	30.06	763.5	30.06	763.5	79	26.1	87	ne.			3	5 k	6 ps	e.		0	0	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.48	748.8	29.94	760.5	79	26.1	90	calm			0		10 s		calm	0	0	foggy	Miss Flora A. Nichols.
Rivas																			Robert Mason.
Santiago de Cuba, W. I.	30.10	764.5	30.13	765.3	73	22.8	76	calm	0	0	6	cs	1 k		ne.	0	0	clear	
York Factory, B. A.	30.33	770.4	30.39	771.9	—27.0	—32.8		nw.	10	4.5		0	0			0	0	clear	W. Wood.

STATIONS AND VESSELS.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
BRITISH NAVAL.																		
H. M. S. Agincourt, N. 39° 50′, E. 4° 30′	30.39	771.9	54	12.2	93	calm			0		0							blue sky.
H. M. S. Albatross, Canton, China	30.13	765.3	65	18.3		w.			1		2	w.						d. clouds.
H. M. S. Alert, Mahi, Seychelles, Islands	29.87	758.7	84.2	29.0	74	nw.			3		7							d. clouds.
H. M. S. Alexandra, Malta, Mediterranean	30.34	770.6	63	17.2	72	nnw.			1		1							blue sky.
H. M. S. Antelope, N. 37° 56′, E. 23° 38′	30.28	769.1	67	19.4		n			2		4	nnw.						d. clouds.
H. M. S. Bacchante, Alexandria, Egypt	30.11	764.8	63	17.2	88	wnw.			1		3	wnw.						d. clouds.
H. M. S. Boadicea, S. 33° 05′, E. 18° 00	29.97	761.2	70	21.1	56	se.			1–2		2	sse.						d. clouds.
H. M. S. Champion, S. 30° 0′, 25W. 79° 30′	30.06	763.5	66	18.9	68	se.			4		6	calm				.5	se.	d. clouds.
H. M. S. Comus, Singapore, Malay Pen.	29.95	760.7	80	26.7	95	ne.			3		2							d. clouds.
H. M. S. Diamond, S. 38° 43′, E. 83° 56′	30.37	771.4	65	18.3	86	ene.			1–2		1					1	ene.	blue sky.
H. M. S. Dido, N. 14° 10′, W. 61° 00′	30.11	764.8	77	25.0		ne.			4–5		3	ne.				3	ne.	d. clouds.
H. M. Dock Yard, Bermuda, W. I.	30.34	770.6	63	17.2	72	ese.			4–5		7	ese.						d. clouds.
H. M. S. Dwarf, S. 34° 35′, W. 58° 19′	29.96	761.0	76.5	24.7	86	n.			2		0					2–3	nne.	blue sky.
H. M. S. Eclipse, S 15° 01′, E. 40° 45′	29.89	759.2	80	26.7		sse.			2–3		9							squally.
H. M. S. Espiegle, S. 39° 54′, E. 61° 40′	29.88	758.9	66	18.9	84	nne.			4–5		7					3	nne.	misty.
H. M. S. Euryalus, Suez, Egypt	30.01	762.2	68	20.0		nnw.			1		3	calm						misty.
H. M. S. Flying Fish, N. 34° 41′, E. 135° 12′	30.20	767.1	45	7.2	76	calm			0		4							misty.
H. M. S. Gannet, S. 35° 40′, W. 89° 25′	30.13	765.3	67	19.4	74	ene.			3		1					1	ene.	blue sky.
H. M. S. Garnet, S. 51° 22′, W. 60° 05′	29.52	749.8	49	9.4	77	sw.			6		5							squally.
H. M. S. Inconstant, S. 9° 30′, E. 103° 00′	29.90	759.4	81	27.2	82	sw.			1		7	sw.				3	se.	showery.
H. M. S. Iron Duke, N. 22° 16′ E. 114° 10′	30.15	765.8	57	13.9	87	calm			0		0							blue sky.
H. M. S. Liffey, Coquimbo, Chili	30.01	762.2	62	16.7		ne.			1		6							d. clouds.
H. M. S. Magpie, N. 24° 53′, E. 118° 40′	30.19	766.8	53.3	11.8	81	nne.			1–2		6							misty.
H. M. S. Malabar, N. 35° 54′, E. 14° 31′	30.30	769.6	59	15.0	81	nne.			1		2	nne.				1	nne.	d. clouds.
H. M. S. Rambler, Cape Lopez Bay, Lower Guinea	29.85	758.2	84	28.9		ssw.			3		8	ssw.						threatening.
H. M. S. Ready, Muscat, Arabia	30.08	764.0	79.1	26.2		calm			0		0							blue sky.
H. M. S. Rocket, Vancouver Id., Brit. Col.	30.29	769.4	32	0.0	89	nne.			4		2							squally.
H. M. S. Thalia, S. 0° 15′, W. 24° 28′	29.91	759.7	83.5	28.6		ese.			4		1					1	ese.	blue sky.
H. M. S. Triumph, S. 35° 31′, W. 89° 20′	30.17	766.3	66	18.9	78	ene.			4		3	sse				3	wsw.	d. clouds.
H. M. S. Tyne, N. 20° 40′, E. 113° 45′	30.11	764.8	67	19.4	90	ne.			2–3		2					2	nne.	d. clouds.
H. M. S. Woodlark, Bombay, India	29.85	758.2	81.5	27.5	67	w.			1–2		0							misty.
PORTUGUESE NAVAL.																		
Quanza, Santiago, Cape Verd Is.	30.00	762.0	80.6	27.0	56	ne.			2		0					2	ne	blue sky.
UNITED STATES NAVAL.																		
Navy Yard, Pensacola, Fla.	30.22	767.6	56	13.3	81	n.	4	1.8			8		ne.	0	0			fair.
N. Yard, Portsmouth, N. H.	29.61	752.1	34	1.1	90	ne.	5	2.2			10		ne.	0.7	18.			misty.
Naval Hospital, Yokohama, Japan	30.06	763.5	44	6.7	72	e.			2		0			0.01	0.3			clear.
Adams, Callao, Peru	29.68	753.9	67	19.4	95	sse.			1		10					gr'd		foggy.
Alaska, Valparaiso, Chili	29.88	758.9	59	15.6	88	ssw.			1		10		s.	0	0	sm'h		cloudy.
Alert, Ilo Ilo, Philippine Islands*	29.80	756.9	81	27.2	83	n.			3		0			0	0	sm'h		clear.
Alliance, St. Lucia, W. I.	30.03	762.7	79	26.1	78	e.			1		5		e.	light	light	sm'h		fair.
Ashuelot, Tientsin, China	30.08	764.0	50	10.0	27	nw.			4		0							clear.
Brooklyn, Port Stanley	29.44	747.8	49	9.4	93	w.	6	2.7			10		w.	0.05	1.3	sm'h		cloudy.
Colorado, New York, N. Y.	29.54	750.3	52	11.1	86	sw.			4		10			0.043	1.1			hazy.
Enterprise, N. 22° 35′, W. 67° 20′*	30.25	768.3	73	22.8	95	e.			5		10		e.			mod.	e.	cloudy.
Essex, Porto Grande, C. Verd Ids.	30.03	762.7	73	22.8	72	ne.			2		2		ne.			sm'h	ne.	clear.
Franklin, Norfolk, Va.	29.83	757.7	59	15.0	82	wsw.	16	7.2			2		wsw.	0.14	3.6			hair.
Galena, Villafranca, France	30.44	773.2	67	19.4	74	calm			0		0					sm'h		hazy.
Independence, Mare Island, Cal.	29.72	754.9	45	7 2	92	sse.			4		10		sse.	0.02	0.5			light rain.
Kearsarge, New Orleans, La.	30.22	767.6	58	14.4	70	nne.			3		2		calm					fair.
Lackawana, Valparaiso, Chili	30.07	763.8	60	15.6	94	calm			0		10							misty.
Lancaster, Chanak, Turkey, Asia*	30.24	768.1	56	13.3	63	nne.			3–4		5			0	0	sm'h		fair.
Marion, S. 33° 54′, E. 18° 24′*	29.79	756.7	70	21.1	70	nnw.			1		2		calm			sm'h		fair.
Michigan, Erie, Pa.	29.69	754.1	35	1.7	100	nw.			7		8		w.					cloudy.
Minnesota, Newport, R. I.	29.63	752.6	50	10.0	86	wsw.	15	6.7			10		sw.					rain & fog.
Monocacy, Yokohama, Japan.	30.28	769.1	45	7.2	84	ne.			2		0							clear.
New Hampshire, Newport, R. I.	29.49	749.0	45	7.2	100	sw.			4		10					sm'h		drizzling.
Nipsic, Lisbon, Portugal	30.43	772.9	64	17.8	62	e.			3		0					sm'h		clear.
Onward, Callao, Peru	30.05	763.3	65	18.3	100	sse.			1		10		nnw.			long	w.	foggy.
Palos, Lain Yet Island, China	30.24	768.1	52	11.1	79	ne.			5		10							overcast.
Passaic, Washington, D. C.	29.78	756.4	48	8.9	92	sw.			1		2		sw.					clear.
Pensacola, Iquique, Peru	29.95	760.7	65	18.3	84	calm	0	0			2		s.	0	0	long	sw.	clear.
Powhatan, Port Royal, Martinique, W. I.	30.12	765.0	75	23.9	81	ene.			1		8		ene.					cloudy.
Quinnebaug, N. 40° 37′, E. 26° 45′	30.32	770.1	51	10.6	65	e.			4		5		calm	0	0	sm'h		hazy.
Ranger, Acapulco, Mexico*	29.93	760.2	75	23.9	81	calm			0		0			0	0	sm'h		clear.
Richmond, Yokohama, Japan*	30.19	766.8	46	7.8	69	ene.			3		0			0	0			clear.
Shenandoah, N. 1° 37′, W. 36° 56′*	30.02	762.5	79	26.1	80	e.			2		10		e.			long	ne.	fair.
St. Louis, League Island, Pa.	29.90	759.4	52	11.1	86	sw.	15	6.7			2		w.	0.37	9.4			clear.
Swatara, Yokohama, Japan*	30.08	764.0	47	8.3	70	ne.			4		0					mod.	ne.	clear.
Tennessee, N. 20° 51′, W. 85° 15′	30.13	765.3	77	25.0	82	se.	14	6.3			2			0	0	mod.	se.	clear.
Vandalia, Key West, Florida*	30.29	769.4	74	23.3	90	e.			1		0							clear.
Wabash, Boston, Mass.	29.56	780.8	36	2.2	100	calm	0	0			10		calm	0.70	17.8			foggy.
Wachusetts, Sitka, Alaska	30.32	770.1	31	— 0.6		calm			0		0					sm'h		clear.
Wyoming, Port Royal, S. C.	30.10	764.5	59	15.0	94	sw.	8	3.6			8		sw.	0	0			cloudy.
Yantic, Pensacola, Florida*	30.16	766.1	61	16.1	71	n.			2		8							cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.			Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	Force.	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Nova Scotia, N. 50° 14′, W. 32° 21′	30.03	762.7	49	9.4	.....	wsw.	.....	.....	5	.....	2	.....	wsw.	.....	.....	cross	.....	fair.
S. S. Peruvian, Liverpool, Eng.*	29.85	758.2	46	7.8	.....	wsw.	.....	.....	6	.....	9	.....	wsw.	0	0	.....	.....	cloudy.
S. S. Polynesian, N. 51° 16′, W. 12° 06′.*	29.97	761.2	53	11.7	.....	sw.	.....	.....	8	.....	9	.....	wnw.	12h'r	12h'r	h'vy	cross	cloudy.
S. S. Prussian, N. 42° 31′, W. 66° 59′*	29.72	754.9	44	6.7	.....	se.	.....	.....	5	.....	8	.....	s.	.....	.....	light	sw.	hazy.
S. S. Scandinavian, N. 51° 01′, W. 29° 08′*	30.11	764.8	44	6.7	.....	wsw.	.....	.....	6	.....	2?	.....	wsw.	.....	.....	high	wsw.	hailing.?
S. S. Waldensian, N. 53° 34′, W. 18° 39′*	30.08	764.0	46	7.8	.....	wnw.	.....	.....	6	.....	5?	.....	wnw.	3 h'r	3 h'r	mod.	cross	clear.?
AMERICAN STEAMSHIP COMPANY.																		
S. S. British Crown, N. 38° 49′ W. 74° 20†	29.88	758.9	49	9.4	.....	sw.	.....	.....	5	.....	0	.....	.....	0	0	h'vy	sw.	clear..
S. S. Illinois, N. 43° 12′, W. 43° 10′	30.43	772.9	44	6.7	92	wnw.	.....	.....	3	.....	8?	.....	w.	0	0	sm'h	nw.	clear.?
S. S. Indiana, Philadelphia, Penn†	29.90	759.4	50	10.0	93	sw.	.....	.....	3	.....	5?	.....	e.	hv'y	hv'y	.....	.....	cloudy ?.
S. S. Ohio, N. 43° 27′ W. 52° 00′*†	30.23	767.8	34	1.1	100	s.	.....	.....	3	.....	9	.....	sw.	.....	.....	sm'h	w.	overcast.
ANCHOR LINE.																		
S. S. Devonia, N. 49° 40′, W. 35° 10′*†	30.16	766.1	43	6.1	.....	wsw.	.....	.....	4	.....	5	.....	wsw.	.....	.....	h'vy	wsw.	hailing.
S. S. Galatia, N. 42° 56′, W. 54° 41′†	30.25	768.3	.....	.....	.....	ssw.	.....	.....	3	.....	7	.....	ssw.	2 h'r	2 h'r	mod.	sw.	threatening.
ATLAS LINE.																		
S. S. Alisa, Petit Goar, Hayti, W. I†	30.17	766.3	75	23.9	81	calm	.....	.....	0	.....	0	.....	.....	0	0	sm'h	.....	fine.
S. S. Alvo, Colon, U. S. C.	30.03	762.7	80	26.7	.....	nne.	.....	.....	4	.....	7	.....	ne.	0	0	.....	.....	fine.
BOSTON AND HALIFAX.																		
S. S. Carroll, N. 42° 50′, W. 70° 30′†	29.56	750.8	44	6.7	92	calm	.....	.....	0	.....	.....	.....	.....	rain	rain	cross	s.	foggy.
BRITISH METEOROLOGICAL OFFICE.																		
S. S. Auckland, S. 2° 17′, W. 31° 25′	29.95	760.7	79	26.1	.....	var.	.....	.....	1	.....	9	.....	.....	.....	.....	.....	.....	raining.
Baroda, S. 48° 10′, E. 25° 48′	29.71	754.6	47.6	8.7	89	wsw.	.....	.....	6	.....	10	.....	.....	.....	.....	.....	.....	misty.
Bk. Caldew, S. 0° 17′, W. 27° 44′.	29.96	761.0	82	27.8	.....	e.	.....	.....	2	.....	3	.....	.....	.....	.....	.....	.....	d. clouds.
Coppename, N. 35° 40′, W. 40° 40′	30.22	767.6	59	15.0	82	nne.	.....	.....	6	.....	10	.....	.....	.....	.....	.....	.....	overcast.
S. S. Gordon Castle, N. 8° 52′, E. 67° 28′	29.88	758.9	80.8	27.1	85	nne.	.....	.....	3	.....	8	.....	.....	.....	.....	.....	.....	thnd'r storm.
S. S. Hermine, S. 25° 59′, W. 25° 50′	30.15	765.8	78.7	25.9	76	ene.	.....	.....	3	.....	3	.....	.....	.....	.....	.....	.....	d. clouds.
S. S. Humboldt, N. 40° 40′, W. 60° 30′	29.99	761.7	54	12.2	100	ssw.	.....	.....	8	.....	10	.....	.....	.....	.....	.....	.....	overcast.
S. Lochee, N. 19° 07′, W. 39° 55′	30.08	764.0	73.8	23.2	81	e.	.....	.....	3	.....	6	.....	.....	.....	.....	.....	.....	d. clouds.
Minho, N. 2° 45′, W. 30° 11′	29.94	760.5	76	24.4	98	ese.	.....	.....	4	.....	10	.....	.....	.....	.....	.....	.....	raining.
Queen of Cambria, N. 14° 04′, E. 81° 29′	29.89	759.2	85.2	29.6	61	se.	.....	.....	2	.....	0	.....	.....	.....	.....	.....	.....	blue sky.
BRISTOL CITY LINE.																		
S. S. Brooklyn City, N. 46° 35′, W. 36° 25′*†	30.30	769.6	48	8.9	.....	w.	.....	.....	6	.....	9	.....	w.	0	0	long	wnw.	cloudy.
CROMWELL LINE.																		
S. S. New Orleans, N. 25′, 28° W. 84° 30′*†	30.25	768.3	65	18.3	.....	s.	.....	.....	.....	.....	0	.....	.....	.....	.....	mod.	se.	clear.
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. Canada, Havre, France	30.49	774.4	48.2	9.0	.....	w.	.....	.....	1	.....	10	.....	w.	0	0	.....	.....	
S. S. St. Laurent, N. 47° +′, W. 35° 40′†*	30.39	772.0	41.0	5.0	.....	wsw.	.....	.....	7	.....	.....	.....	.....	rain	rain	hv'y	wsw.	hailing.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Lessing, Hamburg, Germany	.....	.....	60	15.6	.....	ssw.	.....	.....	4	.....	8	.....	ssw.	0	0	.....	.....	fair.
S. S. Silesia, N. 40° 47′, W. 69° 13′*†	29.66	753.4	47.1	8.4	.....	sw.	.....	.....	6	.....	10	.....	wsw.	6 h'r	6 h'r	6	sw.	foggy.
LEYLAND LINE.																		
S. S. Iberian, N. 47° 07′ W 45° 06	.....	.....	.....	.....	.....	wsw.	.....	.....	6	.....	10	.....	w.	10h'r	10h'r	mod.	wsw.	
MALLORY LINE.																		
S. S. Colorado, New York, N. Y.†	29.68	753.9	42	5.6	.....	nw.	.....	.....	2	.....	8	.....	nw.	20 h'r	light	.....	.....	clearing.
MERCHANTS' EXPRESS LINE.																		
S. S. Hermod, N. 41° 10′, W. 52° 00′*†	30.14	765.5	53.6	12.0	.....	s.	.....	.....	3	.....	5	.....	sse.	0	0	mod.	se.	threatening
MERCHANT STEAMSHIP COMPANY.																		
S. S. Glenfyne, N. 12° 30′ W. 52° 00′	29.71	754.6	79	26.1	.....	ene.	.....	.....	5	.....	3	.....	ene.	.....	.....	mod.	ene.	clear.
NATIONAL LINE.																		
S. S. Erin, N 46° 47′ W. 33° 30′	30.33	770.4	40	4.4	.....	wsw.	.....	.....	5	.....	5	.....	wsw.	sleet	sleet	r'gh	sw.	
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Amsterdam, N. 49° 34′ W. 18° 34′*†	30.42	772.7	50	10.0	.....	w.	.....	.....	4	.....	.....	.....	.....	.....	.....	.....	wsw.	
S. S. Alvena, Kingston, Jamaica*†	29.94	760.5	75	23.9	.....	n.	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	cloudy.
S. S. New York, N. 24° 48′ W. 83° 20′*†	30.22	767.6	78	25.6	.....	e.	.....	.....	1	.....	.....	.....	.....	.....	.....	sm'h	.....	clear.
S. S. P. Caland, N. 45° 53′ W. 28° 38′	30.36	771.1	50.0	10.0	.....	wnw.	.....	.....	4	.....	.....	.....	.....	.....	.....	3	nw.	fine.
NORTH GERMAN LLOYD.																		
S. S. Hermann, N. 38° 43′, W. 70° 59′*†	29.82	757.4	55.4	13.0	.....	sw.	.....	.....	5	.....	8	.....	wsw.	5 h'r	5 h'r	long	ssw.	misty.
S. S. Hohenzollern, S. 30° 13′, W. 47° 18′*	29.99	761.7	74.8	23.8	.....	sw.	.....	.....	5	.....	1	.....	se.	0	0	3	se.	clear.
S. S. Kronprinz F. Wilhelm, N. 48° 00′ W. 30° 50′	30.25	768.3	42.8	6.0	.....	wnw	.....	.....	6	.....	4	.....	nw.	hail	hail	6–7	nw.	hailing.
S. S. Mosel, N. 50° 05′, W. 11° 46′	30.28	769.1	54.5	12.5	.....	sw.	.....	.....	7	.....	8	.....	wsw.	0	0	h'vy	wsw.	cloudy.
S. S. Neckar, N. 45° 56′ W 35° 33′	30.29	769.4	44.2	6.8	.....	wnw.	.....	.....	4	.....	8	.....	nw.	3 h'r	snow	r'gh	nw.	snowing.
S. S. Nurnburg S. 29° 06′, W. 43° 09′*	29.89	759.2	75.2	24.0	81	s.	.....	.....	6	.....	5	.....	s.	1 h'r	light	5	s.	fair.
S. S. Oder, N. 42° 07′, W. 62° 52′*	29.75	755.6	47 8	8.8	.....	ssw.	.....	.....	6	.....	5	.....	sw.	rain	rain	r'gh	sw.	misty.
S. S. Ohio, N. 52° 22′, E. 3° 04′	30.34	770.6	.....	.....	.....	sw.	.....	.....	6	.....	10	.....	.....	0	0	long	sw.	cloudy.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Belgic, Hong Kong, China†	30.13	765.3	60	15.6	76	ese.	.....	.....	4	.....	5	.....	e.	0	0	.....	.....	fair.
S. S. Gaelic, N. 34° 45′, E. 146° 53′†	30.08	764.0	60	15.6	71	ne.	.....	.....	5	.....	10	.....	ne.	.....	.....	mod.	ne.	overcast.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, New York, N. Y†	29.71	754 6	.....	.....	.....	w.	.....	.....	3	.....	10	.....	w.	0	0	.....	.....	clear.?
S. S. Seminole, Boston, Mass†	29.52	749.8	37	2.8	71	ne.	.....	.....	3	.....	.....	.....	.....	12h'r	rain& snow	.....	.....	dense fog.
OREGON IMPROVEMENT COMPANY.																		
S. S. Mississippi, N. 41° 10′, W. 124° 40′†	29.83	757.7	42	5.6	83	ene.	.....	.....	1	.....	10	.....	s.	.....	.....	light	nnw.	cloudy.
S. S. Willamette, N. 39° 10′ W. 124° 04′†*	29.82	757.4	43	6.1	92	nnw.	.....	.....	3	.....	5	.....	nnw.	0.5	13.	long	nnw.	raining.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Oregon, Portland, Oregon†	29.99	761.7	36	2.2	90	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	fine.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, San Pedro, Cal.†	30.07	763.8	46	7.8	77	nne.	.....	.....	2	.....	2	.....	sw.	.....	.....	sm'h	.....	fair.
S. S. G. W. Elder, Esquamault, Vancouvers Isd†	30.18	766.6	41	5.0	.....	w.	.....	.....	4	.....	4	.....	w.	0	0	.....	.....	clear.
S. S. Idaho, San Francisco, Cal†	29.81	757.2	45	7.2	92	se.	.....	.....	3	.....	10	.....	sw.	.....	.....	.....	.....	raining.
S. S. State of California, San Francisco, Cal†	29.79	756.7	45	7.2	92	ssw.	.....	.....	2	.....	4?	.....	.....	0	0	.....	.....	fair.?
S. S. Victoria, N. 48° 23′ W. 123° 18′†	30.14	765.5	29	— 1.7	64	n.	.....	.....	4	.....	0	.....	.....	.....	.....	sm'h	.....	clear.
PACIFIC MAIL STEAM SHIP COMPANY.																		
S. S. Australia, S. 35° 54′, E. 174° 47′	29.87	758.7	70	21.1	100	ene.	.....	.....	4	.....	10	.....	e.	5 h'r	5 h'r	mod.	ene.	hazy.
S. S. City of Rio de Janeiro, Panama, Panama†	30.14	765.5	78	25.6	78	n.	.....	.....	1	.....	2	.....	n.	0	0	sm'h	.....	fine.
S. S. City of Sidney, Sydney, N. S. W†	29.98	761.5	70	21.1	95	e.	.....	.....	4	.....	5	.....	se.	0	0	sm'h	.....	fair.
S. S. City of Tokio, N. 34° 44′, E. 144° 43′†	30.18	766.6	53	11.7	73	ne.	.....	.....	5	.....	5	.....	ne.	0	0	mod.	ne.	fair.
S. S. Colima, N. 16° 30′ W. 99° 34′†	29.95	760.7	75	23.9	86	nw.	.....	.....	3	.....	8	.....	nnw.	0	0	sm'h	con.	cloudy.
S. S. Colon, Aspinwall, Panama†	29.99	761.7	80	26.7	.....	ne.	.....	.....	4	.....	8	.....	ne.	.....	.....	.....	.....	cloudy.
S. S. South Carolina, Punta Arenas, Costa Rica	29.99	761.7	81	27.2	78	ne.	.....	.....	3	.....	2	.....	var.	0	0	sm'h	.....	hazy.
S. S. Zelandia, N. 7° 05′, W. 164° 08′	29 83	757.7	79	26.1	87	e.	.....	.....	3	.....	5	.....	e.	.....	.....	mod.	ne.	fine.
QUEBEC STEAM SHIP COMPANY.																		
S. S. Muriel, off St. Martins, W. I.	.....	.....	.....	.....	.....	ne.	.....	.....	4	.....	2	.....	.....	0	0	sm'h	.....	fair.
S. S. Bermuda, Guayaquilla, W. I†	30.20	767.1	72	22.2	.....	nne.	.....	.....	1	.....	2	.....	e.	0	0	.....	.....	fine.
RED STAR LINE.																		
S. S. Belgenland, N. 42° 03′ W. 59° 53′†	30.02	762.5	33	0.6	80	sw.	.....	.....	6	.....	10	.....	w.	.....	.....	cross	ssw.	drizzling.
S. S. Rhynland, N. 47° 22′ W. 29° 14′	30.31	769.9	46	7.8	69	w.	.....	.....	5	.....	3	.....	w.	0.3	8.	long	w.	fair.
S. S. Switzerland, N. 51° 05′, E. 1° 18′†	30.38	771.6	.....	.....	.....	wsw.	.....	.....	3	.....	10	.....	wsw.	0	0	mod.	wsw.	foggy.
S. S. Vaderland, Antwerp, Belgium*†	30.40	772.1	49	9.4	.....	sw.	.....	.....	4	.....	10	.....	.....	0	0	.....	.....	overcast.
S. S. Waesland, N. 43° 04′ W. 43° 50′	30.50	774.7	42	5.6	.....	nw.	.....	.....	3	.....	8	.....	nw.	0	0	mod.	n.	fair.
ROTTERDAM LINE.																		
S. S. Schiedam, N. 51° 10′, E. 1° 28′*.	30.34	770.6	48.7	9.3	100	ssw.	.....	.....	4	.....	10	.....	.....	.....	.....	sm'h	sw.	drizzling.
THINGVALLA LINE.																		
S. S. Thingvalla, N. 44° 17′, W. 44° 40′†	30.48	774.2	37.4	3.0	.....	w.	.....	.....	2	.....	5?	.....	w.	0	0	r'gh	wnw.	covered.?
WARREN LINE.																		
S. S. Iowa, N. 46° 56′, W. 35° 31′.*†	30.42	772.7	46	7.8	.....	wsw.	.....	.....	6	.....	8	.....	wsw.	2 h'r	sleet	mod	w.	cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
										Upper.	Lower.	Upper.	Lower.					
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch	Mill.			
WHITE STAR LINE.																		
S. S. Celtic, Queenstown, Ireland.*†	30.10	764 5	52	11.1	72	sw.			5		10		sw.	10 h'r	driz.			cloudy.
S. S. Republic, N. 40° 35′, W. 70° 08′†	29.68	753 9	53	11.7	93	ssw.			6		10		sw.	sh'rs	sh'rs	sm'h	sw.	cloudy.
WILSON LINE.																		
S. S. Romano, N. 39° 59′, W. 64° 39′*†	29.94	760 5	58	14.4		sw.			6		10		sw.	8 h'r	8 h'r	r'gh	sw.	
S. Salerno, New York, N. Y†	29.70	754.4				w.			4		8		w.					cloudy.
WINSOR LINE																		
S. S, Catherine Whiting, Off Block Island, R. I.†	29.70	754.4				wsw.			1							short	s.	foggy.
MISCELLANEOUS.																		
Schr. Addie Fuller, Cedar Keys, Florida†	30.24	768.1	71	21.7	83	s.			3	0	2 s			0	0			clear.
Bk. Adelaide, S. 3° 06′, W. 32° 58′*†	29.99	761.7	81	27.2		sse.			3		2		sse.	0	0	mod.	sse.	fair.
Bk. Alpha, N. 34° 50′, W. 74° 30′*†	30.02	762.5	73	22.8		w.			7		6		nw.	4 h'r	h'vy	r'gh	sw.	squally.
Schr. Annie M. Law, N. 42° 20′ W. 58° 44′*†	30.10	764.5	52	11.1	79	s.			6		10		ssw.	3 h'r	light	high	cross	heavy rain.
Schr. Annie R. Lewis, N. 39° 42′, W. 73° 53′*†	29.62	752.3	50	10.0		sw.			4		10			20 h'r	h'vy	hv'y	sse.	foggy.
Schr Annie M. Smull, N. 0° 48′. W. 27° 40′*†	30.00	762.0	85	29.4		w.					0			2 h'r	2 h'r	mod.	ese.	clear.
Bk. Bergenseren, N. 34° 25′, W. 40° 50′†	30.23	767.8				nne.			6				ne.	rain	rain	6	ne.	overcast.
Bk Celestina, N. 31° 07′ W. 37° 20′*†	30.10	764.5				sse.			3		4		nnw.	0	0	long		fair.
S. Enoch Train, Bremerhaven, Germany*	30.19	766.8				wsw.			4		10		sw.	0	0			misty.
U.S.F.C.S. Fish Hawk, Annapolis Roads, Md†	29.95	760.7	53	11.7	93	sw.			2		3		calm	0.17	4.3			clear.
Bk. Freya, N. 34° 07′, W. 74° 23′			70	21.1		sw.			6		8		s.	0	0	cross	sw.	squally.
S. Grecian, N. 22° 23′, W. 24° 43′*†	30.13	765.3	68	20.0		ene.			4		0			0	0	mod.	nw.	hazy.
Bk. Geo. Booth, S. 32° 38′, W. 15° 22′*†.	30.10	764.5				nnw.			2		0			0	0	cross	nw.	
Bk. Granville, S. 1° 20′, W. 28° 36′*†	30.14	765.5				ese.			1				se.	rain	rain	sm'h		clear.
Schr. Henry Denison, N. 11° 04′, W. 58° 27′†	30.04	763.0				ene.			4		3		ene.	0	0	r'gh	ese.	fair.
Bk. Johanne Auguste, S. 19° 53′. E. 86° 41′*†	29.84	757.9				ene.			4		4		e.	3 h'r	light	long	sse.	fair.
Bk. Kate Cann, N. 45° 11′, W. 30° 04′						sw.			5		8		sw.	0	0	mod	sw.	cloudy.
Bkt. Kryolith, N. 41° 15′, W. 37° 00′*†	30.43	772.9				n.			2		10			0	0	mod.	nnw.	cloudy.
S. S. Lamperts, N. 44° 03′, W. 41° 06′*	30.38	771.6	44.3	6.8	80	w.			4		10					5	nw.	overcast.
Schr. Maggie Abbott, N. 23°, W. 74°*†	30.20	767.1				e.			4				e.	0	0	mod.	e.	clear.
S. S. Malabar, N. 40° 33′, W. 52° 02′*†	30.22	767.6				ssw.			2				s.	0	0	mod	s.	cloudy.
Bk. Peppina, N. 36° 53′, E. 13° 33′†	30.24	768.1	61	16.1	77	w.			2		0					sm'h		clear.
Bk. Pilgrim, S. 46° 15′, E. 41° 10′*†	29.00	736.6				w.			3		8		w.	0	0	long	w.	cloudy.
Schr. S. B. Hubbard, Jacksonville, Florida*†	30.12	765.0	70	21.1		nw.			1		0			0	0			clear.
Bk. Stella, S. 48° 46′, W. 54° 56′*	29.42	747.3	50.0	10.0	95	wsw.			5		1			0	0	mod.	sw.	clear.
Bk. Sunbeam, N. 25° 25′, W. 64° 52′*†	30.36	771.1	72	22.2	76	e.			6		5		e.	1 h'r	mod.	mod.	ne.	fair.
S. S. Victoria J. Peed, N. 33° 10′, W. 79° 10′*†	30.04	763.0				ssw.			1		5		sw.			long	se.	
Bg. Wauburn, S. 24° 48′ E. 7° 11′*†	30.15	765.8				s.			6		6		s.			mod.	s.	
S. Wm. Woodbury, Bremerhaven, Germany*†	30.05	763.3	50	10.0	45	w.			4				w.					

Data, as appearing in the International Bulletin of similar date.

Isobars in *black* exhibit atmospheric pressure at sea-level, and are charted from data as reported by the several observers.

Isotherms in *red* exhibit temperature of air, similarly charted.

Broken or dotted lines indicate that the lines so broken are doubtful.

Arrows, when charted, fly with the wind and exhibit wind-direction and force.

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W. B. Hazen

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

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INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON MARCH 11, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours	.....	.....	30.27	768.8	64.0	17.8	80	nw.	.....	.....	2	.....	1	.....	.....	0	0	very fair....	Moiroud.
Algiers	.....	.....	30.27	768.9	58.6	14.8	76	ne.	.....	.....	2	.....	0	.....	.....	0	0	clear.....	Nicolas.
La Calle	.....	.....	30.26	768.5	65.8	18.8	77	wsw.	.....	.....	1	.....	2	.....	.....	0	0	fair.....	Fonfrède.
Tunis	.....	.....	30.26	768.5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.28	769.1	67.6	19.8	30	n.	.....	.....	1	.....	1	.....	.....	0	0	very fair.....	Dumas.
Tebessa	.....	.....	30.27	768.8	48.9	9.4	82	w.	.....	.....	1	.....	0	.....	.....	0	0	clear.....	Derché.
Geriville	.....	.....	.....	.....	57.9	14.4	12	n.	.....	.....	1	.....	0	.....	.....	0	0	clear.....	Lonchamp.
Laghouat	.....	.....	30.29	769.3	57.2	14.0	57	e.	.....	.....	1	.....	1	.....	.....	0	0	very fair.....	Herbin.
Biskra	.....	.....	30.28	769.0	69.8	21.0	38	n.	.....	.....	1	.....	0	.....	.....	0	0	clear.....	Malau.
Australian.																			
Melbourne, Victoria	29.49	749.0	29.58	751.3	90.0	32.2	30	nne.	13	5.8	.....	.....	10	.....	.....	0	0	.....	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.76	756.0	30.31	769.8	66.2	19.0	34	sw.	.....	.....	3	.....	0	.....	.....	0	0	.....	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.40	746.7	30.17	766.3	54.7	12.6	70	wsw.	13.0	5.8	.....	.....	10	.....	.....	0.008	0.2	.....	Dr. Wierzbiski.
Eperies	29.25	743.0	30.14	765.5	51.4	10.8	70	calm	.....	.....	0	.....	10 8	.....	se.	0	0	.....	Julius Mikolik.
Gratz	29.05	737.9	30.30	769.5	62.8	17.1	62	s.	.....	.....	1	.....	0	.....	.....	0	0	.....	Andreas Rospini.
Hermannstadt	28.71	729.3	30.13	765.3	60.6	15.9	48	nw.	.....	.....	4	.....	0	.....	.....	0	0	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	29.01	736.9	30.35	770.9	59.9	15.5	50	wnw.	.....	.....	2	.....	1	.....	.....	0	0	clear.....	The Staff.
Lemberg	29.02	737.0	30.01	762.3	50.2	10.1	75	nw.	.....	.....	3	.....	10	.....	.....	inap.	inap.	.....	Dr. T. Stanecki.
Pola	30.22	767.7	30.34	770.6	57.7	14.3	75	wnw.	.....	.....	2	.....	0	.....	.....	0	0	.....	I. R.Hydrographic Office.
Szathmar	29.70	754.4	30.17	766.3	56.1	13.4	60	sw.	.....	.....	3	.....	10	.....	.....	0	0	.....	Joseph Midlinszky, S. J.
Szegedin	29.98	761.6	30.26	768.7	63.0	17.2	52	sw.	.....	.....	3	.....	3	.....	.....	0	0	.....	Karl Stancel.
Trieste	30.28	769.0	30.38	771.6	56.8	13.8	69	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	Rieder.
Vienna	29.58	751.4	30.29	769.4	64.0	17.8	38	w.	.....	.....	3	.....	2	.....	.....	0	0	.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	30.10	764.5	30.20	767.1	46.5	8.1	65	s.	15	6.7	.....	.....	4	.....	.....	0	0	blue sky.....	W. Boswell.
Armagh, Observatory	30.13	765.3	30.38	771.6	47.4	8.6	95	ssw.	19	8.5	.....	.....	8	.....	.....	.....	.....	d. clouds.....	S. Call.
Bidston, Liverpool Obs'y	.....	.....	30.44	773.2	49.0	9.4	61	wsw.	7	3.1	.....	.....	10	.....	.....	.....	.....	overcast.....	John Hartnup.
Bolton, Sharples	29.87	758.7	30.42	772.7	45.6	7.6	59	sw.	7	3.1	.....	.....	10	.....	.....	.....	.....	overcast.....	Thomas Mackereth. [A.S.
Bradford, Yorkshire	30.00	762.0	30.39	771.9	47.9	8.8	62	sw.	.....	.....	4	.....	9	.....	.....	0	0	overcast.....	J.McLandsborough, F.R
Bridgetown, Barbadoes	30.00	762.0	30.03	762.7	80.0	26.7	66	ne.	.....	.....	4	.....	8	.....	.....	.....	.....	overcast.....	Pvt. J. Surgenor, A. H.C.
Cardington	.....	.....	30.44	773.2	53.2	11.8	71	n.	.....	.....	0.2	.....	10	.....	.....	.....	.....	overcast	John McLaren.
Chatham, School M. E	30.33	770.4	30.47	773.9	54.1	12.3	79	w.	.....	.....	1	.....	10	.....	.....	.....	.....	misty.....	Lance Opl. G.A. Pickles.
Falmouth, Observatory	30.25	768.3	30.48	774.2	51.4	10.8	91	sse.	.....	.....	1	.....	10	.....	.....	.....	.....	foggy.....	The Staff.
Fort Napier, Natal	27.72	704.1	29.94	760.5	76.2	24.6	52	calm	.....	.....	0	.....	0	.....	.....	.....	.....	blue sky.....	Pvt. E. K.Annis, 1A. H.C.
Free Town, Sierra Leone	29.58	751.3	29.81	757.2	89.0	31.7	66	w.	.....	.....	1	.....	3	.....	.....	.....	.....	d. clouds.....	Sergt. John Robinson.
Galway, Queen's College	.....	.....	30.32	770.1	.....	.....	.....	wsw.	.....	.....	2	.....	0	.....	.....	0.01	0.3	d. clouds.....	J. O'Donaghue.
Gibraltar, Mediterranean	30.32	770.1	30.38	771.6	62.3	16.8	83	e.	.....	.....	3	.....	4	.....	.....	.....	.....	d. clouds.....	Opl. O. Baldwin.
Glasgow, Observatory	30.09	764.3	30.29	769.4	47.7	8.7	74	ssw.	.....	.....	0	c	7 k	.....	.....	.....	.....	d. clouds.....	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	30.29	769.4	30.46	773.7	51.8	11.0	83	ne.	.....	.....	1	.....	10	.....	.....	.....	.....	overcast.....	The Staff.
Guernsey	30.18	766.6	30.48	774.2	51.0	10.6	100	w.	.....	.....	1	.....	10	.....	.....	.....	.....	rain & mist.	A. Collenette, F. M. S.
Kew, Observatory	30.43	772.9	30.47	773.9	54.7	12.6	76	ssw.	2	0.9	.....	.....	9	.....	.....	.....	.....	threatening.	The Staff.
Leicester, Museum	30.14	765.5	30.40	772.1	50.0	10.0	64	sw.	.....	.....	1	.....	10	.....	.....	.....	.....	overcast.....	J. C. Smith.
Malta, Mediterranean	30.24	768.1	30.32	770.1	62.0	16.7	77	ne.	.....	.....	3	.....	6	.....	.....	.....	.....	d. clouds.....	I. H. Whysall.
Nassau, Bahamas	30.22	767.6	30.27	768.8	75.5	24.2	74	se.	.....	.....	1	.....	4	.....	.....	.....	.....	d. clouds.....	C. S. Duncombe.
Oscott, St. Mary's College	29.91	759.7	30.45	773.4	48.1	8.9	77	sse.	.....	.....	1	.....	10	.....	.....	.....	.....	overcast.....	John Mac Email.
Oxford, Radcliffe Obs'y	30.22	767.6	30.45	773.4	51.3	10.7	76	sse.	.....	.....	2	.....	10	.....	.....	.....	.....	overcast.....	The Staff.
Plymouth	30.39	771.9	30.40	773.7	52.0	11.1	93	s.	.....	.....	1	.....	10	.....	.....	.....	.....	misty.....	John Merrifield.
Sandwick Manse, Orkneys	.....	.....	30.05	763.3	43.4	6.3	87	sw.	27	12.1	.....	.....	2	.....	.....	.....	.....	d. clouds.....	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	30.18	766.6	30.25	768.3	53.2	11.8	71	sw.	.....	.....	1	.....	1	.....	.....	.....	.....	blue sky.....	W. H. Lyne.
Sheffield	30.14	765.5	30.42	772.7	53.9	12.2	73	calm	.....	.....	0	.....	9	.....	.....	0	0	overcast.....	W. F. Cooper.
Silloth Rectory	30.35	770.9	30.38	771.6	47.8	8.8	74	w.	.....	.....	5	.....	5	.....	.....	0	0	d. clouds.....	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	30.43	772.9	47.0	8.3	58	sw.	9	4.0	.....	.....	7	.....	.....	.....	.....	d. clouds.....	R. S. J. Perry.
Stratfield Turgiss	30.23	767.8	30.45	773.4	54.8	12.7	73	sw.	.....	.....	1	.....	10	.....	.....	.....	.....	d. clouds.....	Rev.C.H.Griffiths, F.M.S.
Truro, Royal Institution	30.41	772.4	30.45	773.4	54	12.2	87	s.	.....	.....	4	.....	10	.....	.....	.....	.....	raining.....	W. Newcombe.
Valencia, Observatory	30.38	771.6	30.41	772.4	49.6	9.8	75	wsw.	16	7.2	.....	.....	10	.....	.....	.....	.....	d. clouds.....	The Met'g'l Office.
Canadian.																			
Charlottetown, P. E. Island	29.84	757.9	29.89	759.2	19	— 7.2	83	n.	12	5.4	.....	.....	10 8	.....	calm	0.200	5.1	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	29.93	760.2	30.00	762.0	10	— 8.9	83	nw.	8	3.6	.....	8 ck	2 8	nw.	nw.	0.03	0.8	fair.....	G. A. Blair.
Father Point, Quebec*	30.02	762.5	30.04	763.0	4	—15.6	83	sw.	3	1.3	.....	8 cs	0	calm	.....	0	0	fair.....	J. McWilliams.
Fort Garry, Manitoba*	29.19	741.4	30.14	765.5	—10	—23.3	100	sw.	8	3.6	.....	0	0	.....	.....	0	0	clear.....	James Stewart.
Halifax, N. S*	29.75	755.6	29.89	759.2	25	— 3.9	80	nw.	4	1.8	.....	8 ck	0	nw.	.....	0.193	4.9	fair.....	A. Allison.
Kingston, Ontario*	29.82	757.4	30.18	766.6	19	— 7.2	84	w.	2	0.9	.....	8 c	0	sw.	.....	0.03	0.8	fair.....	A. P. Knight, M. A.
Montreal, Quebec*	29.87	758.7	30.09	764.3	21	— 6.1	73	w.	9	4.0	.....	5 cs	5 8	w.	.....	0.13	3.3	cloudy.....	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.42	747.3	30.17	766.3	15	— 9.4	83	calm	0	0	.....	.....	10 n	.....	ne.	0.01	0.3	cloudy.....	Rev. R. Mosley.
Port Dover, Ontario	29.52	749.8	30.25	768.3	30	— 1.1	100	sw.	4	1.8	.....	10 k	0	sw.	.....	inap.	inap.	fair.....	H. Morgan.
Port Stanley, Ontario	29.56	750.8	30.24	768.1	29	— 1.7	92	w.	6	2.7	.....	5 ck	0	w.	.....	inap.	inap.	fair.....	M. Payne.
Quebec, Quebec*	29.70	754.4	30.05	763.3	15	— 9.4	83	n	.....	.....	1	0	5 8	.....	n.	0.05	1.3	fair.....	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.65	753.1	30.10	766.1	1	—17.2	91	calm	0	0	.....	8 c	0	w.	.....	0	0	fair.....	W. H. McIntyre.
Saugeen, Ontario*	29.42	747.3	30.17	766.3	29	— 1.7	88	sw.	11	4.9	.....	.....	10 8	.....	.....	0.02	0.5	cloudy.....	
St. Andrews, N. B	29.91	759.7	29.96	761.0	22	— 5.6	87	n.	1	0.4	.....	0	0	.....	.....	0.20	5.1	clear.....	
Sydney, C. B*	29.71	754.6	29.78	756.4	23	— 5.0	80	n.	12	5.4	.....	.....	10 8	.....	.....	0.36	9.1	cloudy.....	G. Murdock, C. E.
Toronto, Ontario*	29.82	757.4	30.22	767.6	28	— 2.2	84	w	6	2.7	.....	2 ck	2 ks	w.	w.	0.02	0.5	fair.....	Magnetic Observatory.
Yarmouth, N. S*	29.86	758.4	29.93	760.2	26	— 3.3	84	ne.	4	1.8	.....	2 cs	0	w.	.....	0.10	2.5	fair.....	Lt. F. E. Wilmot, R. N.
Sub-series.																			
St. Johns, Newfoundland	29.46	748.3	29.71	754.6	27	— 2.8	.....	ne.	1	0.4	.....	.....	10	.....	.....	0.30	7.6	fair.....	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	29.79	756.7	29.82	757.4	69.0	20.6	78	se.	13.8	6.2	.....	0	4 ks	.....	.....	0	0	hazy..	John Duthie.
Cape Town, C. G. H. Obs'y	29.79	756.7	29.83	757.7	76.2	24.6	49	nnw.	9	4.0	.....	0	0	.....	.....	0	0	.....	The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	OBSERVERS.
Chinese (Sub-series).																			
Hankow	30.33	770.4	30.61	777.5	52.9	11.6	63	nne.	.....	.....	3	.....	0	.....	.....	0	0	.....	N. Titoushkin.
Zi-Ka-Wei, near Shanghai	30.36	771.1	30.39	771.8	44.6	7.0	85	n.	4.7	2.1	.....	.....	2k	.....	.....	0	0	fair	M.Marc Dechevrens, S.J.
Danish.																			
Copenhagen	30.11	764.7	30.15	765.9	46.8	8.2	65	nw.	33.5	15	.....	.....	1	.....	.....	.....	.....	.....	Oversergent Fischer.
Fance	30.28	769.1	30.30	769.6	44.4	6.9	83	wnw.	.....	.....	6	.....	3	.....	.....	.....	.....	.....	Overloerer Lauridsen.
Godthaab, Greenland	29.30	744.1	29.34	745.2	— 3.1	—19.5	90	nw.	.....	.....	2	.....	10	.....	.....	.....	.....	.....	S. Kleinschmidt.
Stykkisholm, *Iceland*	29.05	737.8	29.09	738.9	27.5	— 2.5	89	sw.	.....	.....	6	.....	10	.....	.....	.....	.....	snowing	A. O. Thorlacius.
Thorshavn	29.64	752.9	29.68	753.8	41.9	5.5	72	sw.	29.1	13	.....	.....	5	.....	.....	.....	.....	.....	Overloerer Bergh.
Vestervig	30.11	764.8	30.20	767.1	44.6	7.0	85	wnw.	.....	.....	6	.....	4	.....	.....	.....	.....	.....	Loearer Oesterbol.
French.																			
Agen, Normal School	29.78	756.5	30.44	773.1	55.4	13	81	w.	.....	.....	1	.....	.....	.....	.....	0	0	.....	M. Labroue, Director.
Alençon, Normal School	30.00	761.9	30.55	775.9	51.8	11	93	n.	.....	.....	.....	.....	n	.....	.....	0	0	.....	M. Nicot, Director.
Arras, Engineer School	30.19	766.8	30.45	773.5	55.4	13.0	82	wnw.	.....	.....	.....	.....	kn	.....	.....	0	0	.....	M. Klein, Commandant.
Avignon, Normal School	30.30	769.5	30.37	771.5	71.6	22	36	n.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.94	760.4	30.50	774.7	54.7	12.6	74	sw.	.....	.....	1	.....	2	.....	.....	0	0	slightly cl'dy	M. Saillard, Director.
Beauvais, *Normal School*	30.25	768.3	30.52	775.2	56.1	13.4	80	nw.	.....	.....	1	.....	10	.....	.....	0	0	covered	M. Frère Eugène Mari.
Besançon, Normal School	29.50	749.4	30.41	772.3	59.0	15	78	ne.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Gobin, Director.
Bordeaux, Observatory	30.21	767.2	30.47	774.0	45.7	7.6	97	nnw.	.....	.....	1	.....	fg	.....	.....	0.020	0.5	foggy	M. Rayet, Director.
Bourges, Normal School	29.92	760.0	30.48	774.2	53.6	12	76	w.	.....	.....	.....	.....	.....	.....	w.	0	0	.....	M. Postel, Director.
Brest, Naval Observatory	30.26	768.5	30.50	774.7	52.9	11.6	93	sw.	.....	.....	1	.....	10	.....	sw.	0.008	0.2	misty	M. de Kermaree, Dir.
Caen, Normal School	30.41	772.4	30.48	774 3	57.9	14.4	82	sw.	.....	.....	1	.....	10	.....	s.	0	0	covered	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	30.13	765.4	30.46	773.7	52.0	11.1	85	calm	.....	.....	0	.....	10	.....	.....	0	0	covered	M. Jadot, Director.
Charleville, Normal School	29.97	761.1	30.49	774.4	53.2	11.8	74	w.	.....	.....	1	.....	10	.....	.....	0	0	covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	29.08	738.6	30.42	772.7	64.0	17.8	51	w.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Alluard, Director.
Cluny, Normal School	29.61	752.1	30.47	773.8	60.8	16	59	se.	.....	.....	2	.....	0	.....	.....	0	0	clear	M. de Villemontée, Dir.
Commercy, Normal School	29.65	753.0	30.53	775.4	51 3	10.7	82	calm	.....	.....	0	0	5 n	.....	.....	0	0	cloudy	Dr. Coulet, Director.
Gap, *Normal School*	27.80	706.2	30.29	769.4	67.6	19.8	49	.....	.....	.....	.....	.....	.....	.....	.....	0	0	.....	M. Jeanglrard, Director.
Gréasque, du. Rhone	29.21	742.0	30.32	770.0	72.0	22.2	28	nw.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Kina, Director.
Grenoble, Normal School	29.60	751.8	30.37	771.3	62.6	17	40	se.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Ablard, Director.
Guéret, Normal School	28.85	732.9	30.42	772.6	63.5	17.5	52	ese.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Rivoire, Director.
Lamballe, Normal School	30.21	767.3	30.48	774.3	57.2	14	80	se.	.....	.....	2	.....	5	.....	se.	0	0	cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.84	758.0	30.42	772.7	51.8	11	86	nw.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	30.43	773.0	30.54	775.6	48.9	9.4	95	s.	.....	.....	1	.....	10	.....	.....	0	0	covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.39	746.4	30.45	773.3	61.0	16.1	49	n.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. André, Director.
Mans, Normal School	30.20	767.1	30.52	775.2	50.9	10.5	90	sse.	.....	.....	1	.....	8	.....	sw.	0	0	very cloudy	M. Piboen, Director.
Marseille, Observatory	30.08	764.1	30.32	770.0	67.3	19.6	64	wsw.	.....	.....	1	.....	0	.....	.....	0	0	.....	M. Stephan, Director.
Montlouis l'instituteur	25.19	639.8	30.03	762.8	53.6	12.0	32	nw.	9.4	4.2	.....	.....	0	.....	.....	0	0	.....	M. Cave, for Dr. Fines.
Montpellier, Normal School	30.23	767.9	30.37	771.3	77.7	25.4	37	wsw.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.64	752.8	30.44	773.1	49.6	9.8	86	wnw.	.....	.....	1	0	8k	.....	.....	0	0	very cloudy.	M. Husse, Director
Nantes, Observatory	30.37	771.4	30.53	775.5	52.3	11.3	82	ese.	.....	.....	0–1	.....	10	.....	.....	0	0	.....	M. Larocque, Director.
Perpignan, Observatory	30.29	769.3	30.40	772.1	71.2	21.8	36	se.	3.8	1.7	.....	.....	0	.....	.....	0	0	.....	Dr. Fines, Director.
Pic-du-Midi, Summit	21.56	547.7	.....	.....	37.4	3.0	.....	sse.	.....	.....	1	.....	1	.....	w.	0	0	clear	Gen'l de Nansouty, Dir.
Privas, Normal School	29.35	745.4	30.40	772.2	68.2	20.1	29	n.	.....	.....	1	1	1	n.	s.	0	0	clear	M. Taillen.
Puy de Dôme Obs'y, Summit	25.54	648.6	.....	.....	50.5	10.3	50	wsw.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Alluard, Director.
Rochefort, Naval Obs'y	30.48	774.1	30.51	774.9	45.3	7.4	94	ne.	.....	.....	1	.....	mist	.....	.....	0	0	misty	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	30.30	769.5	30.52	775.1	50.0	10	82	nw.	.....	.....	1	.....	8	.....	ne.	0	0	very cloudy.	M. Mouillot, Director.
Rodez, Normal School	28.21	716.4	30.35	770.8	60.1	15.6	42	ne.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Serger, Director.
Rouen, Normal School	30.47	774.0	30.52	775.2	55.8	13.2	83	sw.	.....	.....	1	.....	10	.....	.....	0	0	covered	M. Platrier, Director.
Saint Maur, Observatory	30.35	770.9	30.52	775.1	54.5	12.5	85	.....	.....	.....	.....	.....	10	.....	.....	0.004	0.1	.....	M. Renou, Director.
Toulouse, Observatory	29.75	755.6	30.48	774.2	63.3	17.4	78	nw.	.....	.....	1	.....	1	.....	w.	0	0	clear	M. Baillaud, Director.
Versailles, Observatory	30.01	762.2	30.50	774.7	52.5	11.4	86	nw.	.....	.....	1	.....	.....	.....	.....	0	0	.....	Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	30.24	768.0	30.53	775.4	53.2	11.8	90	s.	.....	.....	1	.....	10	.....	.....	0	0	light fog	M. Marié Davy, Director
German.																			
Bamberg	29.57	751.2	30.44	773.2	53.6	12.0	70	nw.	.....	.....	4	0	3k;s	.....	w.	0	0	.....	Prof. Dr. Hoh.
Berlin	30.10	764.4	30.27	768.9	51.8	11.0	41	nw.	.....	.....	6	.....	5	.....	.....	0	0	.....	Prof. Dr. Arndt.
Breslau	29.69	754.0	30.22	767.6	54.5	12.5	70	w.	.....	.....	4	.....	9	.....	.....	0	0	.....	Royal University Obs'y.
Carlsruhe	30.03	762.7	30.48	774.1	57.2	14.0	72	ne.	.....	.....	1	.....	9	nw.	.....	0	0	.....	Albert Senz.
Cassel	29.65	753.2	30.37	771.4	54.3	12.4	57	w.	.....	.....	2	.....	4	w.	.....	0	0	.....	Dr. H. Möhl.
Frankfort on the Main	30.05	763.3	30.42	772.6	57 6	14.2	69	sw.	.....	.....	1	.....	1c	.....	.....	0	0	.....	Physical Society.
Friedrichshafen	29.00	736.7	30.47	774.0	50.0	10.0	76	sse.	.....	.....	1	.....	0	.....	.....	0	0	.....	Wilhelm, Chief Tel.
Hamburg	30.28	769.1	30.37	771.5	47.3	8.5	67	nw.	.....	.....	5	.....	7	w.	.....	0	0	.....	E. Preller.
Kiel	30.26	768.7	30.28	769.1	47.3	8.5	55	nw.	.....	.....	6	.....	5	.....	.....	0	0	.....	Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.93	760.2	30.35	771.0	55.4	13.0	57	nw.	.....	.....	5	.....	6	w.	.....	0	0	stormy	H. Leppig, Asst.
Magdeburg	30.17	766.2	30.36	771.2	54.0	12.2	51	w.	.....	.....	2	0	3 k	.....	wnw.	0	0	.....	Dr. Assmann.
Memel	29.81	757.1	29.85	758.3	39.7	4.3	92	wnw.	.....	.....	5	8 ck	0	.....	.....	.....	.....	.....	Issermann.
Munich	28.59	726.1	30.48	774.1	58.6	14.8	32	nw.	.....	.....	3	.....	1	n.	.....	0	0	.....	Central Station.
Neufahrwasser	29.92	760.0	29.94	760.4	47.3	8.5	74	wnw.	.....	.....	5	...	10	.....	.....	0.051	1.3	.....	A. Lothes.
Neustadt, Palatinate	29.94	760.5	30.48	774.1	54.7	12.6	75	w.	.....	.....	2	.....	8	.....	.....	0	0	.....	Dicknether.
Stuttgart	29.50	749.3	30.40	772.1	57.7	14.3	64	n.	.....	.....	4	.....	7	n.	.....	0	0	.....	Prof. Dr. Schoder.
Wustrow	30.22	767.5	30.24	768.1	43 7	6.5	80	wsw.	.....	.....	5	0	3 s	.....	.....	0	0	.....	Profs. Brandes & Reimer.
Greek.																			
Athens	29.92	760.0	30.31	769.9	63.5	17.5	.....	ne.	.....	.....	0.5	.....	0	.....	.....	0	0	clear	Schmidt & Wourlisch.
Indian.																			
Bellary	28.44	722.4	.....	.....	94.5	34.7	6	e.	2.4	1.1	.....	3 c	0	.....	.....	0	0	d. clouds	
Kurrachee	29.98	761.4	30.03	762.7	82.0	27.8	60	wsw.	16	7.2	.....	.....	4	sw.	.....	0	0	d. clouds	
Leesa	29.46	748.2	29.92	760.1	91.0	32.8	16	nnw.	12.7	5.7	.....	.....	1	nnw.	.....	0	0	d. clouds	
Bombay	29.88	758.9	29.92	759.8	82.4	28.0	75	nw.	14	6.3	.....	.....	0	.....	.....	0	0	blue sky	
Poona, Yarrowda	28.02	711.7	29.83	757.6	93.2	34.0	17	w.	21	9.4	.....	.....	4	w.	.....	0	0	d. clouds	
Belgaum	27.36	694.8	29.86	758.5	82.8	28.2	55	s.	5	2.2	.....	.....	8	sw.	.....	0	0	misty	
Lahore	29.27	743.5	30.02	762.6	78.9	26.1	18	w.	1.9	0.8	.....	.....	0	.....	.....	0	0	blue sky	
Roorkee	29.08	738.7	29.99	761.8	76.8	24.9	14	nw.	2.7	1.2	.....	.....	0	.....	.....	0	0	.....	
Agra	29.44	747.9	30.01	762.1	86.2	30.1	12	n.	2.9	1.3	.....	.....	0	.....	.....	0	0	.....	
Nagpur	28.84	732.6	29.86	758.4	94.5	34.7	25	s.	5.6	2.5	.....	.....	0	.....	.....	0	0	blue sky	
Jubbulpore	28.59	726.2	29.94	760.5	85.0	29.4	15	ne.	4.3	1.9	.....	.....	3	e.	.....	0	0	d. clouds	
Lucknow	29.55	750.6	29.92	760.1	86.1	30.1	16	wsw.	5.8	2.6	.....	.....	0	.....	.....	0	0	misty	
Allahabad	29.66	753.3	29.97	761.2	84.5	29.2	18	nw.	1.9	0.8	.....	.....	1	.....	.....	0	0	d. clouds	
Patna	29.79	756.7	29.98	761.4	84.2	29.0	28	w.	6.4	2.9	.....	.....	2	w.	w.	0	0	.....	
Hazaribagh	27.95	710.0	29.98	761.4	76.6	24.8	27	n.	9.6	4.3	.....	.....	6	.....	n.	0	0	.....	
Cuttack	29.87	758.6	29.95	760.7	90.6	32.6	25	ssw.	1.2	0.5	.....	.....	0	.....	.....	0	0	blue sky	
Calcutta, Alipore	29.93	760.1	29.95	760.7	83.2	28.4	39	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Dhubri	29.76	756.0	29.88	759.1	82.8	28.2	26	calm	1.5	0.7	.....	.....	0	.....	.....	0	0	blue sky	
Chittagong	29.89	759.1	29.98	761.4	81.4	27.4	75	wsw.	3.3	1.5	.....	.....	0	.....	.....	0	0	blue sky	
Sibsagar	29.60	751.9	29.94	760.6	75.4	24.1	64	ne.	3.5	1.6	.....	.....	0	.....	.....	0	0	blue sky	
Jeypore	28.55	725.2	29.99	761.7	85.2	29.6	22	n.	4.9	2.2	.....	.....	2	.....	.....	0	0	d. clouds	
Zanzibar, Africa	29.84	757.9	.....	.....	83.8	28.8	68	wnw.	4.5	2.0	.....	.....	2	.....	.....	0	0	d. clouds	
Trichinopoly	29.68	753.9	.....	.....	91.1	32.8	28	e.	2	0.9	.....	.....	0	.....	.....	0	0	blue sky	
Italian.																			
Udine	29.96	760.9	30.37	771.3	64.8	18.2	43	sw.	0.7	0.3	.....	.....	0	.....	.....	0	0	.....	Prof. Giovanni Clodig.
Milan	29.85	758.3	30.37	771.5	62.4	16.9	61	sw.	2.5	1.1	.....	.....	0	.....	.....	0	0	.....	Prof. Schiaparelli.
Padua	30.26	768.5	30.37	771.3	61.5	16.4	62	s.	1.3	0.6	.....	.....	0	.....	.....	0	0	.....	Prof. Dott. Lorenzoni.
Moncalieri	29.46	748.2	30.37	771.3	62.6	17.0	53	e.	3.1	1.4	.....	.....	0	.....	.....	0	0	.....	Prof. P. F. Denza.
Genoa	30.19	766.9	30.39	771.8	61.3	16.3	76	sw.	4.3	1.9	.....	.....	0	.....	.....	0	0	.....	Prof. G. M. Garibaldi.
Mondovi	28.45	722.6	30.37	771.4	59.5	15.3	42	w.	.....	.....	4	.....	0	.....	.....	0	0	.....	Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
ITALIAN.—Continued.																			
Pesaro	30.30	769.7	30.35	770.9	57.2	14.0	63	sw.	6.9	3.1			0			0	0		Prof. Luigi Guidi.
Florence	30.10	764.4	30.35	770.9	63.7	17.6	44	nw.			2		0			0	0		Prof. Costantino Pitter.
Leghorn	30.21	767.4	30.30	769.6	61.5	16.4	54	w.	0	0			0			0	0		Prof. P. Monte.
Rome	30.17	766.4	30.35	770.8	65.7	18.7	43	ssw.	2.5	1.1			0			0	0		Prof. P. S. Ferrari.
Lecce	30.07	763.8	30.33	770.3	60.8	16.0	65	wnw.	11.2	5.0			0			0	0		Prof. C. de Giorgi.
Cosenza	29.43	747.6	30.33	770.3	62.2	16.8	73	ese.	4.3	1.9			0			0	0		Prof. D. Conti.
Cagliari	30.14	765.5	30.33	770.4	61.7	16.5	63	s.			4		0			0	0		Prof. A. Pacinotti.
Palermo	30.13	765.4	30.39	771.8	64.0	17.8	39	ene.	4.9	2.2			0			0	0		Prof. G. Giacciatore.
Syracuse	30.30	769.7	30.35	770.9	57.7	14.3	53	e.	7.4	3.3			0			0	0		Prof. Vincenzo Guiliano.
Sub-series.																			
Naples, S. R	29.79	756.7	30.31	769.8	66.0	18.9	50	w.	1.8	0.8			1	ne.		0	0		Prof. T. Brioschi.
Stelvio	22.47	570.7			36.7	2.6	30	se.			2		1			0	0	clear	Prof. P. F. Denza.
Valdobbia	22.52	572.0			40.6	4.8	45	sw.			1		0			0	0	clear	Prof. P. F. Denza.
JAPANESE.																			
Aomori	29.90	759.4	29.94	760.5	39.0	3.9	70	ssw.	16.5	7.4		0	0			0.110	2.8	clear	K. Ogawa.
Hakodate	29.85	758.2	29.86	758.4	43.0	6.1	71	sw.	24.0	10.7			10			1.012	25.7	raining	
Hiroshima, I. M. Obs'y	30.07	763.8	30.09	764.3	44.3	6.8	77	sse.	1.5	0.7		3ck;cs	0			0	0	fair	K. Sasaki.
Kanazawa	29.99	761.7	30.10	764.5	40.3	4.6	81	sse.	4.6	2.1		ck	7 s			0.200	5.1	cloudy	S. Endo.
Kioto	29.91	759.7	30.09	764.3	36.9	2.7	84	w.	1.5	0.7		0	2 s			0	0	clear	M. Tojima.
Kochi	30.09	764.3	30.11	764.8	46.6	8.1	82	n.	5.0	2.2		0	2 s			0	0	fair	
Nagasaki, I. M. Obs'y	29.98	761.5	30.19	766.8	45.5	7.5	78	sw.	0.8	0.4			9 s			0	0	cloudy	S. Takehayashi.
Niigata	30.01	762.2	30.05	763.3	41.5	5.3	77	sw.	3.0	1.3		6 ck	0			0.170	4.3	cloudy	
Nobiru	30 02	762.5	30.04	763.0	40.1	4.5	92	n.	3.6	1.6			10 s			0	0	covered	H. Midzushima.
Supporo					35.0	1.7	100	se.	13.8	6.2			10					raining	
Tokei Obs'y, Yeddo	29.99	761.7	30.06	763.5	44.1	6.7	74	n.	3.0	1.3			10 s			0	0	covered	The Staff.
Wakayama	30.04	763.0	30.09	764.3	43.1	6.2	72	e.	0.3	0.1			10 s			0	0	cloudy	Y. Kuwamuea.
MAURITIUS.																			
Mauritius Observatory	29.68	753.9	29.86	758.4	79.2	26.2	84	ese.	16.5	7.4		0	8 ks;n		ese.	0.18	4.6	cloudy	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.72	602.6	29.94	760.6	55.8	13.2	79	calm	0	0		0	0			0	0	clear	Vicente Fernandez.
Leon	24.45	520.9	30.21	767.4	52.9	11.6	78	n.			1	1	0			0	0	foggy	Prof. M. Leal.
Mazatlan	29.75	755.6	30.01	762.3	61.0	16.1	94	wsw.	0.9	0.4		1 cs	0			0	0	dense haze	F. Quijano, C. E.
Mexico, Central Obs'y	23.14	587.8	30.22	767.6	54.0	12.2	82	calm	0	0		0	1			0	0	fine	M. Tena, M. D.
Morelia	24.21	615.0	30.37	771.3	54.5	12.5	79	se.			1	0	0			0	0	fine	The Staff.
Pabellon, Aguascallentes	24.05	610.8	30.17	766.3	49.5	9.7	67	ne.			1	0	0			0	0	fine	M. V. de Leon, M. E.
Puebla, Catholic Institute	23.47	595.8	30.20	768.7	51.3	10.7	82	calm			0	0	0			0	0	clear	Prof. P. Spina.
San Luis Potosi	24.22	615.2	30.19	766.7	64.2	17.9	60	e.			1	0	0			0	0	clear	G. Barroeta, M. D.
Vera Cruz																			
Zacatecas	22.64	574.3	30.34	770.3	50.0	10.0	59	sw.	5.3	3.3		0	0			0	0	fine	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.49	774.5	30.49	774.5	53.8	12.1		nne.			2					0	0		
Groningen	30.37	771.5	30.43	772.9	47.7	8.7		nw.			1					0	0		
Helder	30.45	773.4	30.45	773.4	45.3	7.4		nw.			1					0	0		
Hellevoetsluis	30.47	774.0	30.47	774.0	55.4	13.0	77	wnw.			2					0.059	1.5	lightly cl'd'y	H. van der Brink.
Utrecht	30.43	772.9	30.48	774.1	53.1	11.7	55	w.			1		2			0	0		
NORWEGIAN.																			
Bergen	29.95	760.7	30.01	762.3	43.2	6.2	71	ssw.	18	8			5			0.409	10.4		
Brono	29.63	752.5	29.67	753.5	36.1	2.3	80	wsw.	18	8			9			0.244	6.2	raining	
Christiania	29.73	755.1	29.87	758.8	48.0	8.9	33	nw.	13	6			0			0	0		
Gjæsvær	29.17	740.9	29.19	741.5	28.4	— 2.0		calm			0		8						
Lodingen	29.40	746.7	29.45	747.9	37.0	2.8	49	w.			4		4			0.185	4.7		
PORTUGUESE.																			
Angra, Azores					61.9	16.6	85	sse.	5.6	2.5			3			0	0		Dr. J. A. Sampaio.
Campo Major	29.38	746.3	30.37	771.5	68.4	20.2	39	ene.	3.1	1.4			0			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.24	768.1	30.33	770.3	65.7	18.7	62	calm	0	0			0			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	30.06	763.4	30.42	772.6	64.4	18.0	60	nne.	7.4	3.3			0			0	0		The Staff.
Ponta Delgada, Azores	30.37	771.5	30.45	773.3	64.0	17.8	69	sse.	5.6	2.5			4			0	0		
Saint Paul de Loando	29.69	754.0	29.88	759.0	84.2	29.0	83	w.	0.7	0.3			1	sse.		0	0		
Serra da Estrella	25.65	651.5	30.35	771.0	57.2	14.0	28	s.	6.3	2.8			0			0	0		
RUSSIAN.																			
Akmolinski	28.55	725.1	29.69	754.0	18.5	— 7.5	92	s.	9	4		1 c	0			0.059	1.5		Major K. Lasarew.
Archangel	29.23	742.5	29.25	743.0	24.1	— 4.4	79	se.	2	1			7 s			0	0		Capt. Sseliwerstow.
Astrakhan	29.81	757.2	29.73	755.1	36.9	2.7	79	w.	18	8			10 n			0.098	2.5		Capt. Wisganow.
Barnaul	29.32	744.8	29.84	757.8	36.0	2.2	80	wsw.	13	6			10			0.047	1.2		Meteorological Obs'y.
Dorpat	29.39	746.6	29.64	752.9	42.3	5.7	55	wsw.	7	3		10 cs	0			0	0		Observatory.
Ekaterinburg	28.48	723.4	29.47	748.4	24.4	— 4.2	44	calm	0	0		1 ck	0			0	0		Meteorological Obs'y.
Kasan	29.18	741.2	29.47	748.5	13.8	—10.1	72	sse.	7	3			10			0	0		Observatory.
Kertch	29.77	756.1	29.79	756.6	43.7	6.5	88	w.	31	14			10 n			0.028	0.7		Lagorio & Sastyrex.
Kieff	29.10	739.0	29.73	755.1	50.7	10.4	49	nw.	22	10		c;ck	6 k			0.075	1.9		Observatory.
Lugan	29.35	745.4	29.55	750.6	43.2	6.2	79	wnw.	18	8			9			0.028	0.7		Meteorological Obs'y
Moscow	28 82	732.0	29.30	744.3	36.7	2.6	58	n.	4	2		0	5 ks			0.012	0.3		Meteorological Obs'y.
Nikolaiev	29.83	757.7	29.90	759.5	56.7	13.7	59	nw.	45	20		cs	7 n			0.098	2.5		Capt. Kurdakow.
Nikolaievsk, on the Amoor	30.22	767.6	30.31	769.8	— 8.0	—22.2	88	calm	0	0			0			0	0		Lieut. Iwanow.
Pekin, China	30.25	768.3	30.39	771.9	46.8	8.2	23	nw.	4	2		0	0			0	0		Physical Observatory
St. Petersburg	29.46	748.2	29.47	748.6	34.0	1.1	66	wnw.	20	9		0	1 s			0	0		Central Physical Obs
Tashkend, Laboratory	28.32	719.3	29.85	758.2	66.6	19.2	30	calm	0	0			5			0	0		Teich, A. M.
Tiflis	28.53	724.7	29.98	761.4	43.7	6.5	47	nw.	45	20			10 ks			0	0		Physical Observatory
Vladivostok	30.20	767.1	30.27	768.8	12.6	—10.8	60	ne.	9	4		0	5 ks						
Warsaw	29.57	751.0	29.99	761.8	50.0	10.0	89	wsw.	27	12			10 ks						Astronomical Obs'y
Wilna	29.35	745.5	29.78	756.3	42.8	6.0	69	wnw.	11	5			9			0.008	0.2	heavy cl'ds.	Berg, Assistant.
Yeniseisk	29.57	751.1	29.87	758.8	24.1	— 4.4	70	wsw.	22	10			10			0	0		M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	30.29	769.4	30.39	772.0	61.5	16.4	62	se.	2.0	0.9		1 c	0			0	0	clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.43	772.8	30.48	774.3	57.0	13.9	77	nw.	2.5	1.1			10			0.008	0.2	covered	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.44	697.0	30.38	771.6	63.5	17.5	27	ne.	1.6	0.7		0	0			0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	28.18	715.7	30.39	772.0	65.7	18.7	37	calm	1.8	0.8		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y	30.26	768.5	30.41	772.3	69.3	20.7	50	sse.	1.1	0.5		0	0			0	0	clear	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.48	748.8	30.37	771.4	66.7	19.3	64	calm	0	0			0			0.008	0.2	clear	R. Gil Vallanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I	30.11	764.7	30.17	766 4	73.2	22.9	84	calm	0	0		0	3 k;ks		ene.	0	0	fair	Benito Vines, S. J.
Manilla, Philippine Islands	29.93	760.2	29.99	761.7	81.5	27.5	74	s.	16.5	7.4		0	1 ks			0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.28	769.1	30.38	771.6	68.0	20.0	37	e.	11.0	4.9		0	0			0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	30.08	763.9	30.17	766.2	75.6	24.2	72	e.	14.1	6.3		3 c	4 k	e.	e.	0.150	3.8	d. clouds	Manuel Maeu.
Tuguegarao, Philippine Id's	29.88	758.9	30.02	762.5	76.8	24.9	75	nnw.	7.5	3.4		0	7 ks		n.	0	0	covered	José L. Yrastorza.
SWEDISH.																			
Haparanda	29.38	746.3	29.42	747.3	34.2	1.2	52	nw.			2		5			0	0		
Umea	29.49	749.1	29.54	750.4	47.5	8.6	65	nw.			2		0			0	0		
Hernosand	29.57	751.1	29.62	752.4	45.9	7.7	40	wsw.			2		5			0	0		
Stockholm	29.56	750.9	29.74	755.4	41.2	5.1	80	w.			2		9			0.012	0.3		
Wisby	29.70	754.3	29.76	755.8	39.9	4.4	80	w.			2		0			0.028	0.7		
Sub-series.																			
Upsala	29.61	752.1	29.70	754.3	42.4	5.8	76	w.	7.4	3.3			4			0	0		S. G. Fineman.
SWISS.																			
Geneva	29.00	736.7	30.43	772.8	55.6	13.1	43	n.			1					0	0	clear	The Observatory.

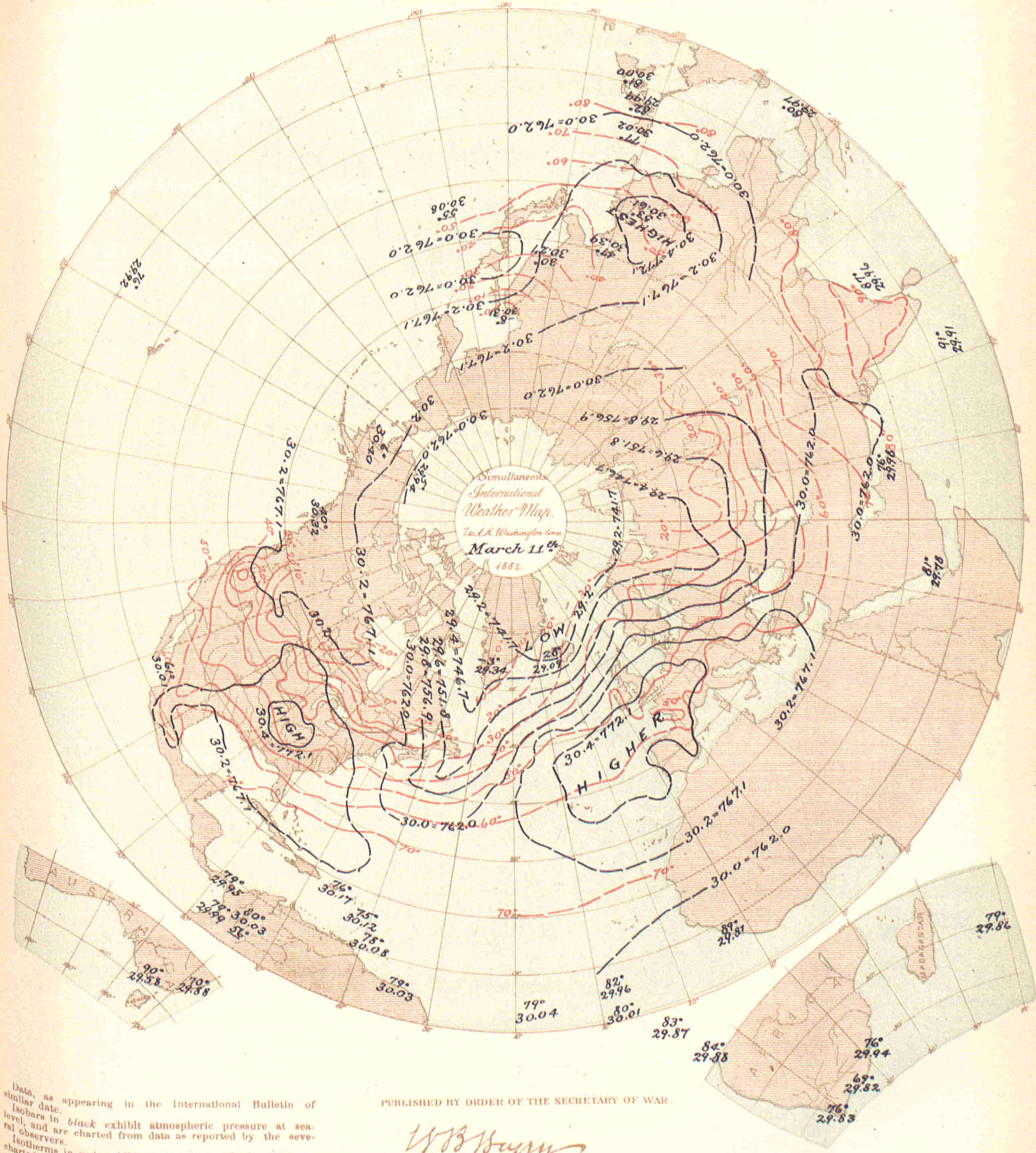
STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lowe	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
TURKISH.																			
Constantinople	.....	.....	30.30	769.7	51.6	10.9	69	sw.	7	3.0	.....	.....	0	.....	.....	0	0	.....	The Observatory.
Valona	.....	.....	30.35	770.9	63.0	17.2	.....	nw.	.....	.....	1	.....	0	.....	.....	0	0	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	30.06	763.5	62.1	16.7	53	nnw.	.....	.....	3	0	0	.....	.....	0	0	.....	Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	30.07	763.8	30.16	766.1	34.5	1.4	73	w.	4	1.8	.....	7 cs	0	.....	.....	0.01	0.3	fair	J. O. Barnes.
Alpena, Michigan	29.47	748.5	30.17	766.3	22	— 5.6	87	nw.	2	0.9	.....	.....	10 n	.....	nw.	0.02	0.5	light snow	Jas. J. Fitzgerald.
Atlanta, Georgia	29.15	740.4	30.36	771.1	35.0	1.7	69	nw.	11	4.9	.....	1 c	0	calm	.....	0	0	clear	H. Hall.
Atlantic City, New Jersey	30.20	767.1	30.21	767.3	36.3	2.4	72	n.	7	3.1	.....	.....	10 8	.....	n.	0	0	cloudy	Jas. M. Watson.
Augusta, Georgia	30.18	766.6	30.38	771.6	44.5	6.9	76	nw.	1	0.4	.....	0	0	.....	.....	0	0	clear	John Healy.
Baltimore, Maryland	30.25	768.3	30.30	769.6	39	3.9	54	nw.	3	1.3	.....	6 cs	0	nw.	.....	0	0	fair	Robert Seyboth.
Barnegat, New Jersey	30.18	766.6	30.20	767.1	36.2	2.3	79	nw.	10	4.5	.....	.....	10 8	.....	n.	0	0	cloudy	Chas. F. Merritt.
Bismarck, Dakota	28.23	717.0	30.15	765.8	8	—13.3	80	e.	2	0.9	.....	0	1 8	.....	.....	0	0	clear	Cyrus Cramer.
Boise City, Idaho	27.28	692.9	30.20	767.1	24	— 4.4	88	n.	1	0.4	.....	.....	10 8	.....	calm	0	0	cloudy	B. E. Light.
Boston, Massachusetts	29.91	759.7	30.07	763.8	30.5	— 0.8	62	nw.	8	3.6	.....	0	hz.	.....	.....	0.06	1.5	clear	O. B. Cole.
Brownsville, Texas	30.08	764.0	30.13	765.3	62	16.7	100	calm	0	0	.....	10 c	0	.....	.....	0.39	9.9	cloudy	J. C. Galloway.
Buffalo, New York	29.48	748.8	30.27	768.8	29.7	— 1.3	82	sw.	11	4.9	.....	0	9 ks	.....	sw.	0.02	0.5	cloudy	Wm Finn.
Burlington, Vermont	29.80	756.9	30.11	764.8	26.5	— 3.1	69	nw.	4	1.8	.....	5 ck	5 8	w.	nw.	0.04	1.0	cloudy	G. C. Schaeffer.
Cairo, Illinois	30.05	763.3	30.47	773.9	35.8	2.1	81	se.	6	2.7	.....	0	0	.....	.....	0	0	clear	W. H. Ray.
Campo, California	27.41	696.2	30.02	762.5	33	0.6	88	e.	2	0.9	.....	.....	10 8	.....	.....	0	0	cloudy	W. H. Clendenon.
Camp Thomas, Arizona	27.24	691.9	30.02	762.5	40	4.4	67	calm	.....	.....	0	.....	9 8	.....	.....	0	0	cloudy	J. T. Fitzgerald.
Cape Henry, Virginia	30.29	769.4	30.31	769.9	44	6.7	60	nw.	14	6.3	.....	4 k	3 8	.....	.....	0	0	fair	J. E. Lanouette.
Cape May, New Jersey	30.20	767.1	30.23	767.8	39	3.9	82	nw.	32	14.3	.....	0	3 ks	.....	nw.	0	0	clear	W. Bolten.
Castroville, Texas	29.41	747.0	30.24	768.1	56	13.3	86	s.	1	0.4	.....	10 cs	0	.....	.....	0	0	cloudy	T. Jones.
Cedar Keys, Florida	30.25	768.3	30.27	768.8	58	14.4	65	ne.	7	3.1	.....	0	1 ks	.....	.....	inap.	inap.	clear	F. W. Mixer.
Champaign, Illinois	29.54	750 3	30.40	772.1	28.5	— 1.9	69	w	6	2.7	.....	2 c	0	s.	.....	0	0	clear	L. A. Welsh.
Charleston, S. Carolina	30.27	768.8	30.33	770.4	52	11.1	59	ne.	16	7.2	.....	0	0	.....	.....	0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.46	748.3	30.34	770.6	42.0	5.6	58	n.	4	1.8	.....	0	fg	.....	.....	0	0	clear	D. O. Donoghue.
Chattanooga, Tennessee	29.59	751.6	30.44	773.2	36.0	2.2	69	nw.	6	2.7	.....	4 cs	0	w.	.....	0	0	fair	B. L. Goulding.
Cheyenne, Wyoming	23.90	607.0	30.08	764.0	19.4	— 7.0	60	nw.	10	4.5	.....	0	0	.....	.....	0	0	clear	E. McGovern.
Chicago, Illinois	29.57	751.1	30.31	769.9	27.6	— 2.4	93	w.	8	3.6	.....	0	2 ks	.....	w.	0	0	clear	J. Mitchell.
Chincoteague, Virginia	30.25	768.3	30.27	768.8	39	3.9	65	nw.	16	7.2	.....	2 c	1 8	nw.	.....	0	0	clear	F. C. Pratz.
Cincinnati, Ohio	29.74	755.4	30.43	772.9	37	2.8	61	w.	4	1.8	.....	4 c	0	w.	.....	inap.	inap.	fair	R. B. Watkins.
Cleveland, Ohio	29.54	750.3	30.32	770.1	32.4	0.2	73	w.	10	4.5	.....	.....	10 8	.....	.....	0.01	0.3	cloudy	J. B. Newlin.
Coleman City, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	L. Dorman.
Columbus, Ohio	29.50	749.3	30.39	771.9	32	0.0	68	sw.	11	4.9	.....	.....	10 ks	.....	sw.	inap.	inap.	cloudy	D. Cuthbertson.
Concho, Texas	28.23	717.0	30.20	767.1	44	6.7	86	calm	0	0	.....	4 ck	0	.....	.....	0	0	fair	W. W. McConihe.
Davenport, Iowa	29.66	753.4	30.36	771.1	28	— 2.2	77	w.	5	2.2	.....	3 cs	0	w.	.....	0	0	clear	R. R. Martin.
Dayton, Washington T'y	28.43	722.1	30.24	768.1	22.2	— 5.4	79	calm	0	0	.....	0	0	.....	.....	0	0	clear	H. Clifford.
Deadwood, Dakota	25.28	642.1	30.12	765.0	9	—12.8	83	calm	0	0	.....	2 cs	0	w.	.....	0.07	1.8	clear	G. W. Scott.
Decatur, Texas	.....	.....	.....	.....	60	15.6	60	n.	7	3.1	.....	4 ck	3 8	nw.	.....	0	0	fair	D. J. Carr.
Delaware Brenkwater, Del	30.23	767.8	30.25	768.3	38	3.3	82	nw.	22	9.8	.....	.....	10 8	.....	nw.	0	0	cloudy	A. Schneider.
Denison, Texas	29.45	748.0	30.28	769.1	44.4	6.9	83	se.	6	2.7	.....	0	5 8	.....	.....	0	0	fair	J. McGlone.
Denver, Colorado	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	F. M. Neal.
Des Moines, Iowa	29.40	746.7	30.36	771.1	23	— 5.0	73	nw.	1	0.4	.....	.....	10 8	.....	.....	0	0	cloudy	F. W. Conrad.
Detroit, Michigan	29.57	751.1	30.32	770.1	32.7	0.4	88	w.	9	4.0	.....	.....	10 8	.....	w.	inap.	inap.	cloudy	C. F. R. Wappenhans.
Dodge City, Kansas	27.42	696.5	30.14	765.5	37	2.8	64	s.	7	3.1	.....	.....	10 8	.....	.....	0	0	cloudy	E. A. Thomas.
Dubuque, Iowa	29.56	750.8	30.31	769.9	23.3	— 4.8	73	sw.	4	1.8	.....	0	8 8	.....	s.	0	0	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.52	749.8	30.26	768.6	6	—14.4	76	sw.	3	1.3	.....	0	0	.....	.....	0	0	clear	N. B. Conger.
Eagle Pass, Texas	29.41	747.0	30.23	767.8	57.0	13.9	80	se.	5	2.2	.....	.....	10 8	.....	.....	0	0	cloudy	F. Belford.
Eagle Rock, Idaho	25.28	642.1	30.15	765.8	18	— 7.8	73	n.	12	5.4	.....	.....	10 n	.....	.....	0.15	3.8	light snow	J. M. Clifford.
Eastport, Maine	29.90	759.4	29.97	761.2	25	— 3.9	80	n.	10	4.5	.....	8c;cs	0	nw;n	.....	0.14	3.6	clearing	J. H. Melton.
El Paso, Texas	26.27	667.2	30.07	763.8	34	1.1	38	nw.	1	0.4	.....	3 c	0	nw.	.....	0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.52	749.8	30.30	769.6	33	0.6	88	sw.	5	2.2	.....	.....	10 8	.....	.....	0.03	0.8	cloudy	R. H. Paxton.
Escanaba, Michigan	29.47	748.5	30.18	766.6	24	— 4.4	70	w.	5	2.2	.....	5 k	0	w.	.....	0.06	1.5	fair	C. Dill.
Florence, Arizona	28.47	723.1	30.04	763.0	44.2	6.8	55	nw.	2	0.9	.....	3 cs;hz	0	sw.	.....	0	0	clear	R. R. Herman.
Fort Apache, Arizona	25.00	635.0	30.02	762.5	36	2.2	66	se.	2	0.9	.....	0	6 8	.....	calm	0	0	fair	W. C. Barnes.
Fort Assinnaboine, Montana	27.16	689.9	30.17	766.3	10	—12.2	60	sw.	17	7.6	.....	5 c	0	sw.	.....	0	0	fair	B. O. Lenoir.
Fort Bennett, Dakota	28.54	724.9	30.24	768.1	22	— 5.6	73	se.	1	0.4	.....	.....	10 8	.....	w.	0	0	cloudy	T. Gibson.
Fort Benton, Montana	27.22	691.4	30.20	767.1	12	—11.1	64	calm	0	0	.....	2 c	0	calm	.....	0.01	0.3	clear	S. Wheaton.
Fort Buford, Dakota	28.00	711.2	30.14	765.5	5	—15.0	76	s.	3	1.3	.....	3 cs	0	calm	.....	0	0	clear	A. H. Bell.
Fort Custer, Montana	26.87	682.5	30.20	767.1	2	—16.7	76	calm	0	0	.....	0	0	.....	.....	inap.	inap.	clear	V. Verge.
Fort Davis, Texas	25.22	640.6	30.10	764.5	44	6.7	65	s.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. Williams.
Fort Elliott, Texas	27.32	693.9	30.14	765.5	36	2.2	64	se.	12	5.4	.....	.....	fg.	.....	.....	0	0	dense fog	W. J. Cundall.
Fort Gibson, Indian T'y	29.67	753.6	30.26	768.6	43.5	6.4	60	se.	7	3.1	.....	.....	10 8	.....	s.	0	0	cloudy	J. B. Campbell.
Fort Grant, Arizona	25.24	641.1	30.07	763.8	40	4.4	40	e.	5	2.2	.....	.....	10 8	.....	.....	0	0	cloudy	T. J. Macgowan.
Fort Griffin, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	G. H. Hayne.
Fort Keogh, Montana	27.53	699.2	30.18	766.6	6	—14.4	76	sw.	7	3.1	.....	0	0	.....	.....	0	0	clear	W. B. Stockman.
Fort Macon, North Carolina	30.30	769.6	30.31	769.9	46	7.8	60	nw.	21	9.4	.....	0	9 ks	.....	nw.	0	0	cloudy	L. Leonardy.
Fort McKavett, Texas	27.92	709.2	30.24	768.1	49.1	9.5	71	s.	8	3.6	.....	7 k	0	nw.	.....	0	0	fair	J. E. Thatcher.
Fort Missoula, Montana	27.84	681.7	30.22	767.6	0	—17.8	100	ne.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. H. Jones.
Fort St. Michaels, Alaska	30.37	771.4	30.40	772.1	6	—14.4	100	sw.	16	7.2	.....	.....	10 8	.....	.....	0.05	1.3	cloudy	A. P. Leavitt.
Fort Shaw, Montana	26.38	670.0	30.18	766.6	4	—15.6	76	w.	5	2.2	.....	0	0	.....	.....	0	0	clear	A. L. Mathews.
Fort Sill, Indian Territory	28.94	735.1	30.23	767.8	37	2.8	85	s.	4	1.8	.....	4 ck	5 8	sw.	.....	0	0	cloudy	T. Cleary.
Fort Stevenson, Dakota	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. Burrows.
Fort Verde, Arizona	.....	.....	.....	.....	40.1	4.5	67	sw.	.....	.....	1	.....	10 8	.....	sw.	0	0	cloudy	D. Brooks.
Fort Washakie, Wyoming	24.37	619.0	.....	.....	6.8	—14.0	66	n.	2	0.9	.....	2 c	0	w.	.....	0	0	clear	T. M. Ambler.
Fredericksburg, Texas	28.44	722.4	30.20	767.1	51	10.6	86	s.	1	0.4	.....	9 cs	0	s.	.....	0	0	cloudy	H. S. Miles.
Galveston, Texas	30.21	767.3	30.25	768.3	62	16.7	77	se.	12	5.4	.....	5 cs	hz.	.....	.....	0	0	fair	E. O'C. MacInerney.
Grand Haven, Michigan	29.55	750.6	30.25	768.3	33.0	0.6	83	sw.	16	7.2	.....	.....	10 8	.....	sw.	0.02	0.5	cloudy	W. A. Reid.
Hatteras, North Carolina	30.28	769.1	30.30	769.6	46	7.8	53	w.	16	7.2	.....	3 k	hz.	ne.	.....	0	0	clear	R. M. Crawford.
Helena, Montana	25.84	656.3	30.21	767.3	5	—15.0	54	n.	2	0.9	.....	0	0	.....	.....	inap.	inap.	clear	N. C. Smith.
Henrietta, Texas	29.27	743.4	30.31	769.9	39	3.9	82	se.	8	3.6	.....	.....	10 8	.....	.....	0	0	cloudy	J. W. Byram.
Huron, Dakota	28.80	731.5	30.28	769.1	20	— 6.7	76	se.	7	3.1	.....	.....	10 n	.....	.....	inap.	inap.	light snow	S. W. Glenn.
Indianapolis, Indiana	29.55	750.6	30.39	771.9	30	— 1.1	77	sw.	3	1.3	.....	0	sk.	.....	calm	inap.	inap.	clear	O. Schutze
Indianola, Texas	30.20	767.1	30.23	767.8	58.2	14.6	87	e.	12	5.4	.....	4 k	4 ks	w.	w.	0	0	cloudy	I. A. Reed.
Jacksboro, Texas	29.06	738.1	30.28	769.1	42	5.6	70	se.	1	0.4	.....	2 cs	0	sw.	.....	0	0	clear	J. P. Sherry.
Jacksonville, Florida	30.26	768.6	30.31	769.9	56	13.3	45	n.	6	2.7	.....	0	0	.....	.....	0	0	clear	J. W. Smith.
Keokuk, Iowa	29.68	753.9	30.37	771.4	28.5	— 1.9	64	calm	0	0	.....	0	0	.....	.....	0	0	clear	F. Z. Gosewisch
Key West, Florida	30.18	766.6	30.20	767.1	73.6	23.1	80	ne.	8	3.6	.....	0	1 k	.....	ne.	0	0	clear	L. M. Melbourne.
Kittyhawk, North Carolina	30.30	769.6	30.32	770.1	43	6.1	68	nw.	12	5.4	.....	1 cs;hz	0	.....	.....	0	0	clear	E. A. Beals.
Knoxville, Tennessee	29.37	746.0	30.43	772.9	35.2	1.8	66	ne.	4	1.8	.....	1 c	0	.....	.....	0	0	clear	J. A. Cody.
La Crosse, Wisconsin	29.46	748.3	30.28	769.1	22	— 5.6	73	w	4	1.8	.....	.....	10 8	.....	.....	0	0	cloudy	S. C. Emery.
La Mesilla, New Mexico	26.12	663.4	30.07	763.8	31.8	— 0.1	57	calm	0	0	.....	4 c	4 8	.....	.....	0	0	cloudy	N. D. Lane.
Leavenworth, Kansas	29.38	746.2	30.32	770.1	28	— 2.2	77	se.	1	0.4	.....	5 k	0	w.	.....	0	0	fair	A. W. Browne.
Lewiston, Idaho	29.39	746.5	30.25	768 3	25	— 3.9	67	e.	4	1.8	.....	0	0	.....	.....	0	0	clear	W. Blake.
Little Rock, Arkansas	30.04	763.0	30.37	771.4	42	5.6	82	ne.	1	0.4	.....	0	0	.....	.....	0	0	clear	M. F. Burrows.
Los Angeles, California	29.70	754.4	30.10	764.5	48.2	9.0	77	se.	5	2.2	.....	.....	10 8	.....	calm	0.03	0.8	cloudy	E. F. Kubel.
Louisville, Kentucky	29.82	757.4	30.41	772.4	37	2.8	72	w.	5	2.2	.....	1 c	0	.....	.....	0	0	clear	H. C. Smith.
Lynchburg, Virginia	29.60	751.8	30.32	770.1	41.0	5.0	40	nw.	6	2.7	.....	0	0	.....	.....	0	0	clear	T. H. Breen.
Madison, Wisconsin	29.20	741.7	30.28	769.1	28	— 2.2	77	w.	6	2.7	.....	.....	10 8	.....	w.	0	0	cloudy	C. A. Shaw.
Marquette, Michigan	29.40	746.7	30.17	766.3	20	— 6.7	70	w.	10	4.5	.....	.....	10 8	.....	w.	0.03	0.8	cloudy	I. Gilligan
Mason, Texas	28.42	721.9	30.11	764.8	51.4	10.8	89	s.	6	2.7	.....	.....	10 8	.....	s.	0	0	cloudy	A. M. Wilson.
Memphis, Tennessee	30.07	763.8	30.42	772.7	39	3.9	82	calm	0	0	.....	2 cs	fg.	.....	.....	0	0	clear	D. T. Flannery.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–01	0–10	0–10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Milwaukee, Wisconsin	29.48	748.8	30.27	768.8	29	— 1.7	88	sw.	6	2.7			10 s		sw.	0	0	cloudy	W. Line.
Mobile, Alabama	30.30	769.6	30.34	770.6	50	10.0	71	ne.	8	3.6		0	0			0	0	clear	J. D. Paxton.
Montgomery, Alabama	30.13	765.3	30.37	771.4	42.7	5.9	75	ne.	3	1.3		2 cs	0			0	0	clear	J. B. McLaughlin.
Moorhead, Minnesota	29.17	740.9	30.25	768.3	0	—17.8	100	sw.	5	2.2		0	0			0	0	clear	H. Bessant.
Morgantown, W. Virginia	29.34	745.2	30.40	772.1	37.0	2.8	71	w.	4	1.8			10 s		w.	0.04	1.0	cloudy	J. Sprigg, jr.
Mt. Washington, N. H.	23.44	595.4	29.96	761.0	3.0	—16.1	87	n.	54	24.1			10n;fg		n.	1.41	35.8	light snow	J. G. Linsley.
Nashville, Tennessee	29.91	759.7	30.47	773.9	36.3	2.4	74	n.	1	0.4		0	0			0	0	clear	L. A. Jesunofsky.
New Haven, Connecticut	30.02	762.5	30.14	765.5	33	0.6	68	nw.	6	2.7		10 c	0	nw.		0	0	cloudy	J. H. Sherman.
New London, Connecticut	30.06	763.5	30.12	765.0	34	1.1	60	nw.	7	3.1		0	3 ks		w.	0.01	0.3	fair	J. G. Lynch.
New Orleans, Louisiana	30.24	768.1	30.30	769.6	54.0	12.2	67	ne.	12	5.4		1 c	0			0	0	clear	A. J. Armstrong.
Newport, Rhode Island	30.03	762.7	30.08	764.0	33.6	0.9	66	w.	8	3.6		0	0			0.03	0.8	clear	W. McGillivray.
New River, N. Carolina					44	6.7	51	n.			2	0	0			0	0	clear	C. C. Corbin.
New Shoreham, Rhode I'd	30.07	763.8	30.10	764.5	34.4	1.3	60	n.	18	8.0		2 c	0	n.		0	0	clear	W. Davis.
New York, New York	30.00	762.0	30.18	766.6	35	1.7	69	w.	10	4.5		5 cs	3 s	nw.		0	0	cloudy	E. B. Garriott.
Norfolk, Virginia	30.29	769.4	30.32	770.1	44	6.7	75	nw.	4	1.8		3 ck	4 ks	nw.	nw.	0	0	fair	J. T. Elker.
North Platte, Nebraska	27.06	687.3	30.12	765.0	30.1	— 1.1	81	se.	10	4.5		0	2 s			0.01	0.3	clear	E. F. Brady.
Olympia, Washington T'y	30.21	767.3	30.25	768.3	29.0	— 1.7	88	nw.	3	1.3		0	0			0	0	clear	J. Dascomb.
Omaha, Nebraska	29.06	738.1	30.31	769.9	31.5	— 0.3	70	se.	4	1.8			10 s		se.	0	0	cloudy	A. Pollak.
Ooglaamie, Pt. Barrow, Alas.	29.92	760.0	29.94	760.5	— 5.2	—20.7	86	w.	24	10.7			10 n			0.10	2.5	light snow	P. H. Ray.
Oswego, New York	29.83	757.7	30.17	766.3	32.0	0.0	78	nw.	9	4.0			10 s		nw.	0.06	1.5	cloudy	S. W. Beall.
Palestine, Texas	29.72	754.9	30.30	769.6	45	7.2	60	s.	8	3.6		0	6 ks			0	0	fair	L. M. Pindell.
Pensacola, Florida	30.32	770.1	30.35	770.9	51.4	10.6	72	ne.	10	4.5		0	0			0	0	clear	M. McGauran.
Philadelphia, Pa	30.13	765.3	30.23	767.8	39	3.9	65	nw.	13	5.8			10 ks		nw	0	0	cloudy	T. F. Townsend.
Pike's Peak, Colorado	17.52	445.0	30.11	764.8	2	—16.7	91	sw.	42	18.8		0	8 s		sw.	0	0	cloudy	L. M. Dey.
Pioche, Nevada	23.98	609.1	30.12	765.0	29	— 1.7	61	s.	2	0.9		4 k	0	calm		0	0	fair	C. K. Kitchel.
Pittsburg, Pennsylvania	29.50	749.3	30.35	770.9	34.3	1.3	72	w.	6	2.7			10 n		w.	0.07	1.8	light snow	J. H. Bryce.
Port Eads, Louisiana	30.28	769.1	30.29	769.4	60.4	15.8	83	e.	21	9.4		0	2s;hz		e.	0	0	clear	H. G. Christian.
Port Huron, Michigan	29.55	750.6	30.27	768.8	28.0	— 2.2	82	sw.	10	4.5			10 s			0.11	2.8	cloudy	W. O. Bailey.
Portland, Maine	29.95	761.0	30.01	762.2	33.0	0.6	68	nw.	4	1.8		3 c	6 s	calm	calm	0.09	2.3	cloudy	D. C. Murphy.
Portland, Oregon	30.13	765.3	30.21	767.3	33.0	0.6	78	nw.	8	3.6		0	0			0	0	clear	M. L. Hearne.
Portsmouth, N. Carolina					44	6.7	68	nw.	17	7.6		2 c	0	ne.		0	0	clear	F. P. Chaffee.
Prescott, Arizona	24.72	627.9	30.06	763.5	35	1.7	53	s.	1	0.4		0	3 s		calm	0	0	clear	J. McN. Wright.
Provincetown, Mass	30.02	762.5	30.05	763.3	32	0.0	78	n.	13	5.8		5 k	0	w.		0.06	1.5	fair	P. T. Jenkins.
Punta Rassa, Florida	30.19	766.8	30.20	767.1	68	20.0	87	ne.	4	1.8		2 ck	0	w.		0	0	clear	W. J. Evans.
Red Bluff, California	29.72	754.9	30.10	764.5	39.2	4.0	91	n.	7	3.1		0	5 s		s.	0.42	10.7	fair	J. M. Frantz.
Rio Grande City, Texas	29.93	760.2	30.17	766.3	58	14.4	56	calm	0	0			10 s		calm	0.02	0.5	cloudy	W. H. Taylor.
Rochester, New York	29.52	749.8	30.22	767.6	28	— 2.2	88	w.	12	5.4		4 cs	3 s	w.	w.	0.05	1.3	fair	A. T. Sherwood.
Roseburg, Oregon	29.57	751.1	30.13	765.3	33	0.6	78	calm	0	0		0	0			0	0	clear	J. J. Nanry.
Sacramento, California	29.97	761.2	30.05	763.3	43.0	6.1	83	sw.	2	0.9			10 n		sw.	0.68	17.3	light rain	J. A. Barwick.
St. Louis, Missouri	29.81	757.2	30.44	773.2	30.0	— 1.1	88	s.	5	2.2		1 c	0			0	0	clear	J. H. Webber.
St. Paul, Minnesota	29.33	745.0	30.25	768.3	15.5	— 9.2	89	sw.	5	2.2		0	3 s		w.	0	0	clear	O. S. M. Cone.
St. Vincent, Minnesota	29.18	741.2	30.12	765.0	—12	—24.4	100	sw.	7	3.1		0	0			0	0	clear	G. Kingsbury.
Salt Lake City, Utah	25.60	650.2	30.12	765.0	32	0.0	43	nw.	10	4.5		9 k	0	w.		0	0	cloudy	J. Craig.
San Antonio, Texas	29.53	750.0	30.24	768.1	55.0	12.8	38	ne.	2	0.9			10 s		calm	0	0	cloudy	E. Lane.
San Diego, California	29.97	761.2	30.05	763.3	47.4	8.6	82	ne.	6	2.7		7 cs	3 s	w.		0	0	cloudy	A. C. Dobbins.
Sandusky, Ohio	29.61	752.1	30.33	770.4	34	1.1	78	w.	12	5.4			10 s		w.	0.01	0.3	cloudy	M. H. Perry.
Sandy Hook, New Jersey	30.15	765.8	30.19	766.8	36.0	2.2	69	n	14	6.3		10 k	0	n.		0	0	cloudy	B. A. Blundon.
San Francisco, California	29.96	761.0	30.03	762.7	45	7.2	83	ne.	5	2.2			10 s		s.	0.33	8.4	cloudy	N. Gorom.
Santa Fé, New Mexico	23.18	588.8	30.16	766.1	38.6	3.7	28	se.	3	1.3			10 s			0	0	cloudy	H. N. Jones.
Savannah, Georgia	30.24	768.1	30.33	770.4	50.5	10.3	58	n.	8	3.6		0	0			0	0	clear	H. M. Ford.
Shreveport, Louisiana	30.08	764 0	30.33	770.4	45	7.2	83	e.	2	0.9		2 c	0			0	0	clear	E. N. Meekins.
Silver City, New Mexico	24.24	615.7	30.02	762.5	35	1.7	37	calm	0	0		0	6 s		calm	0	0	fair	J. B. Wallace.
Sitka, Alaska	30.25	768.3	30.32	770.1	40.2	4.6	78	w.	4	1.8			10 s		calm	0	0	cloudy	J. J. McLean.
Smithville, North Carolina	30.30	769.6	30.34	770.6	44	6.7	51	ne.	8	3.6		0	0			0	0	clear	J. C. Rickli.
Spokane Falls, Wash. Ter.	28.16	715.3	30.29	769.4	13	—10.6	76	calm	0	0		0	0			0	0	clear	D. Moore.
Springfield, Illinois	29.70	754.4	30.42	772.7	33	0.6	69	calm	0	0		0	0			0	0	clear	T. B. Jennings.
Springfield, Massachusetts	29.98	761.5	30.12	765.0	36.1	2.3	66	w.	6	2.7		4 k	0	w.		0.01	0.3	fair	T. S. Outram.
Springfield, Mo.	28.84	732.5	30.40	772.1	36	2.2	61	se.	10	4.5		9 cs	0			0	0	cloudy	J. B. Marbury.
Stockton, Texas	27.05	687.1	30.13	765.3	44.0	6.7	86	s.	8	3.6		0	0			0	0	clear	J. O'Dowd.
Thatcher's Island, Mass	30.02	762.5	30.08	764.0	33.0	0.6	68	nw.	8	3.6		2 cs	0			0.03	0.8	clear	G. Liebmann.
Toledo, Ohio	29.59	751.6	30.32	770.1	35	1.7	64	w.	8	3.6			10 ks		w.	inap.	inap.	cloudy	A. Buell.
Tucson, Arizona	27.60	701.0	30.06	763.5	46	7.8	56	se.	3	1.3		0	8 ks		w.	0	0	cloudy	J. L. Whiteside.
Umatilla, Oregon	29.93	760.2	30.31	769.9	25.7	— 3.5	81	s.	3	1.3		0	0			0	0	clear	R. P. Sibley.
Uvalde, Texas	29.23	742.4	30.21	767.3	56	13.3	80	se.	3	1.3			10 s		calm	0	0	cloudy	E. C. Imlay.
Vicksburg, Mississippi	30.11	764.8	30.37	771.4	45	7.2	76	ne.	5	2.2		0	fg.		calm	0	0	clear	T. J. Kenan.
Visalia, California	29.64	752.8	30.02	762.5	45	7.2	83	ne.	4	1.8			10 ks		ne.	0.24	6.1	cloudy	J. T. Cochran.
Washington, D. C.	30.20	767.1	30.32	770.1	37	2.8	82	nw	6	2.7		5 ck	2 s	w.		0	0	fair	B. M. Purssell.
West Las Animas, Colorado	25.98	659.9	30.06	763.5	21.5	— 5.8	78	nw.	5	2.2		0	2 s		calm	0	0	clear	J. Grover.
Wickenburg, Arizona					36.0	2.2	82	calm			0		10 ks		w.	0	0	cloudy	H. A. Kremp.
Williamsport, Pa	29.63	752.6	30.26	768.6	33	0.6	66	nw.	6	2.7		0	6 ks		nw.	0	0	fair	B. F. Hough.
Wilmington, N. Carolina	30.29	769.4	30.35	770.9	46	7.8	61	n.	7	3.1		2 c	sk.	calm	calm	0	0	clear	S. A. Haney.
Winnemucca, Nevada	25.61	650.5	30.11	764.8	3	—16.1	76	sw.	5	2.2		0	0			0.40	10.2	clear	J. R. Williams.
Yankton, Dakota	28 89	733 8	30.28	769.1	22	— 5.6	73	s.	9	4.0			10 s			0.01	0.3	cloudy	J. H. Atfield.
Yuma, Arizona	29.82	757.4	29.97	761.2	52.3	11.3	48	se.	3	1.3			10 s			0	0	cloudy	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.04	559.8			56.0	13.3	75	s.	2	0.9			10 s			0	0	foggy	Joaquin Gomez.
Bridgetown, Barbados, W.I.	30.07	763.8	30.08	764.0	78	25.6	77	e.				5 k	5 ks	se.	se.	0	0	cloudy	J. A. Racker.
Buenaventura, U. S. C.	29.97	761.2	29.99	761.7	77	25.0	86	se.	12	5.4			10 ks		s.	0.02	0.5	cloudy	J. I. Plume.
Guadeloupe, W. I.	30.00	762.0	30.02	762.5	75	23.9	79	e.				0	2 ks			0	0	clear	B. Bigar.
Havana, Cuba, W. I.	30.16	766.1	30.21	767.3	76	24.4	85	ne.	2/4	1.1		0	5 ks		ne.	0	0	fair	A. Van Caneghem.
Kingston, Jamaica, W. I.	30.13	765.3	30.14	765.5	72.2	22.3	83	n.	1	0.4		0	2 s		e.	0	0	fair	Robert Johnston.
Navassa	30.16	766.1	30.24	768.1	76	24.4	76	e.	15	6.7		5 ck	5 s	se.	e.	0.15	3.8		F. M. Everett.
Paramaribo, S. A.	30.03	762.7	30.03	762.7	79	26.1	98	ne.			2	4 c	4 k	e.		0	0		Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.57	751.1	30.03	762.7	80	26.7	91	calm			0		10 s		calm	inap.	inap.	foggy	Miss Flora A. Nichols.
Rivas							84	ne.			4	cs	8 ks		ne.	0	0		Robert Mason.
Santiago de Cuba, W. I.	30.12	765.0	30.15	765.8	77	25.0	69	calm	0	0		0	1 s			0	0	fair	
York Factory, B. A.	30.25	768.3	30.31	769.9	—24.0	—31.1		n.	12	5.4		3 k	1 s	n.	n.	0	0	fair	W. Wood.

STATIONS AND VESSELS.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
BRITISH NAVAL.																		
H. M. S. Agincourt, N. 39° 53′, E. 4° 30′	30.33	770.4	51	10.6	93	calm			0		0							blue sky.
Albatross, Canton, China	30.13	765.3	71	21.7		calm			0		0							blue sky.
H. M. S. Alert, Mahi, Seychelles Islands	29.90	759.4	84	28.9	71	nw.			3–5		4							squally.
H. M. S. Alexandra, Malta, Mediterranean	30.37	771.4	64	17.8	73	nne.			1		3							d. clouds.
H. M. S. Antelope, N. 37° 45′, E. 24° 30′	30.29	769.4	65	18.3		nnw.			2–3		2	nnw.				2	nnw.	d. clouds.
H. M. S. Bacchante, Alexandria, Egypt	30.15	765.8	63	17.2	88	w.			2		3	wnw.						d. clouds.
H. M. S. Boadicea, S. 33° 20′, E. 17° 30′	29.80	756.9	67.5	19.7	66	s.			4		0					2	s.	blue sky.
H. M. S. Champion, S. 29° 15′, W. 76° 00′	29.95	760.7	64	17.8	83	se.			5		4					5	se.	d. clouds.
H. M. S. Cleopatra, N. 27° 20′ E. 34° 17′	30.00	762.0	71	21.7	90	wnw.			5		4	nnw				2	wnw.	misty.
H. M. S. Comus, N. 1° 20′, E. 104° 20′	29.97	761.2	79.5	26.4	?	ne.			2		2					6	ne.	d. clouds.
H. M. S. Diamond, S. 38° 48′, E. 86° 48′	30.33	770.4	64.5	18.1	86	nnw.			1–2		2	sw.				2	sw.	d. clouds.
H. M. S. Dido, N. 14° 34′, W. 61° 04′	30.11	764.8	75	23.9		ene.			1–4		9	ene.						showery.
H. M. Dock-Yard, Bermuda, W. I.	30.07	763.8	67	19.4	90	sw.			5–6		9							misty.
H. M. S. Dwarf, S. 34° 35′, W. 58° 19′	29.90	759.4	79	26.1	82	nw.			2–3		0					2–3	nnw.	blue sky.
H. M. S. Eclipse, S. 15° 01′, E. 40° 58′	29.85	758.2	82	27.8		s.			2		3					3	sse.	d. clouds.
H. M. S. Espiegle, S. 39° 48′, E. 65° 41′.	29.88	758.9	62	16.7	100	nnw.			3		10					3	nne.	drizzling.
H. M. S. Euryalus, Suez, Egypt	30.06	763.5	68	20.0	60	nnw.			1		0							blue sky.
H. M. S. Fawn, Zebayer I'd., Red Sea	29.78	756.4	81	27.2	64	s.			6		0					4	s.	blue sky.
H. M. S. Flying Fish, N. 34° 41′, E. 135° 12′	30.12	765.0	46	7.8	76	calm			0		7							misty.
H. M. S. Gannet, S. 36° 45′, W. 88° 10′	30.21	767.3	65	18.3	73	e.			3–5		6	n.				2	ene.	d. clouds.
H. M. S. Garnet, Port Egmont, Falkland Ids.	29.90	759.4	49	9.4	77	sw.			3		5							d. clouds.
H. M. S. Inconstant, S. 11° 45′, E. 101° 45′	29.91	759.7	81	27.2	82	s.			1		2	s.				3	sse.	d. clouds.
H. M. S. Iron Duke, N. 22° 10′, E. 114° 10′	30.18	766.6	62	16.7	83	calm			0		0							blue sky.
H. M. S. Lark, S. 36° 50′, E. 174° 50′	30.10	764.5	66.3	19.1		ene.			5		10					3	ene.	blue sky.
H. M. S. Liffey, Coquimbo, Chili	30.02	762.5	62	16.7		nw.			1		8							showery.
H. M. S. Magpie, N. 24° 53′, E. 118° 40′	30.20	767.1	56.5	13.6	66	ne.			1–2		0							d. clouds.
H. M. S. Malabar, N. 35° 04′, E. 18° 21′	30.29	769.4	62	16.7	88	ne.			1		1	ne.				1	ene.	blue sky.
H. M. S. Orontes, S. 5° 14′ E. 39° 59′	29.87	758.7	83.5	28.6	80	calm			0		0					2	con.	blue sky.
H. M. S. Rambler, Cape Lopez, Bay, Lower Guinea	29.87	758.7	83	28.3		ene.			1		7	calm						threatening
H. M. S. Ready, Muscat, Arabia	29.98	761.5	76.1	24.5		sse.			2		2							d. clouds.
H. M. S. Rocket, Vancouver Id., B. C.	30.19	766.8	30	— 1.1	100	nne.			1		2							d. clouds.
H. M. S. Tamar, N. 46° 15′, W. 7° 31′	30.52	775.2	53.5	11.9	?	ssw.			1		10	ssw.				4	wnw.	d. clouds.
H. M. S. Thalia, S. 1° 55′, W. 24° 44′	29.95	760.7	84	28.9		ese.			4		8					1	ese.	d. clouds.
H. M. S. Triumph, S. 36° 48′, W. 88° 02′	30.25	768.3	66	18.9	84	e.			4		5	sse.				3	wsw.	d. clouds.
H. M. S. Woodlark, Bombay, India	29.87	758.7	82.5	28.1	67	nw.			2		0							misty.
PORTUGUESE NAVAL.																		
Quanza, Santago	30.02	762.5	77.9	25.5	58	ene.			3		0					2	ene.	blue sky.
UNITED STATES NAVAL.																		
Navy Yard, Pensacola, Fla	30.32	770.1	55	12.8	62	ne.	15	6.7			2		ne.	0	0			fair.
Navy Yard, Portsmouth, N. H.	30.04	763.0	31	— 0.6	?	nw.	6	2.7			7		nw.	0	0			fair.
Naval Hospital, Yokohama, Japan	29.95	760.7	45.5	7.5	68	n.			1		10		wsw.	sli't	sli't			misty.
Adams, Callao, Peru	29.72	754.9	68	20.0	95	sse.			1		10					gr'd		foggy.
Alaska, Valparaiso, Chili	29.85	758.2	58	14.4	88	calm			0		0			0	0	sm'h		clear.
Alert, Ilo Ilo, Phillippine Islands*	29.85	758.2	81	27.2	87	n.			3		2		calm	0	0	sm'h		fair.
Alliance, N. 15° 03′, W. 62° 56′	30.03	762.7	77	25.0	69	ne.			3		2			sli't	sli't	sm'h		clear.
Ashuelot, Tientsin, China	30.30	771.1	43	6.1	43	wsw.			1		0							clear.
Brooklyn, Port Stanley, Falkland Island	29.84	757.9	47	8.3	85	wsw.	8	3.6			2		wsw.	0.15	3.8	sm'h		fair.
Colorado, New York, N. Y.	30.17	766.3	35	1.7	70	w.	10	4.5			8		nw.	0	0			fair.
Enterprise, N. 20° 40′, W. 66° 39′*	30.15	765.8	74	23.3	81	ne.			4		2					mod.	ne	clear.
Essex, N. 16° 44′, W. 24° 47′	30.06	763 5	73	22.8	76	ene.			4		2		ne.			long	ne.	clear.
Franklin, Norfolk, Va.	30.32	770.1	44	6.7	76	wnw.	6	2.7			8		nw.	0	0			fair.
Galena, Villafranca, France	30.36	771.1	66	18.9	74	ese.			1		0					sm'h		clear.
Independence, Navy Yard, Mare Island, Cal	29.91	759.7	43	6.1	83	ese.			2		10			0.13	3.3			drizzling.
Kearsarge, New Orleans, La.	30.22	767.6	54	12.2	80	ene.			3		0							clear.
Lackawanna, Valparaiso, Chili†	29.97	761.2	56	13.3	100	calm			0		10							foggy.
Lancaster, Chanak, Turkey, Asia*	30.25	768.3	61	16.1	40	nnw.			1		2			0	0	sm'h		misty.
Marion, S. 33° 54′, E. 18° 24′*	29.60	751.8	74	23.3	63	w.			3		0					sm'h		clear.
Michigan, Erie, Pa.	30.14	765.5	33	0.6	100	ssw.			5		10		w.					cloudy.
Minnesota, Newport, R. I.	30.09	764.3	43	6.1	67	nnw.	3	1.3			2							fair.
Monocacy, Yokohama, Japan	30.12	765.0	47	8.3	77	nnw.			1		10		calm					cloudy.
New Hampshire, Newport, R. I.	30.04	763.0	35	1.7	80	nw.			3		2					sm'h		fair.
Nipsic, Libson, Portugal	30.41	772 4	66	18.9	68	e.			2		0					sm'h		clear.
Onward, Callao, Peru	30.04	763.0	66	18.9	100	calm			0		10		n.			long	w.	foggy.
Palos, Losing Island, China	30.27	768.8	55	12.8	68	ene.			4		5							fair.
Passaic, Washington, D. C.	30.33	770.4	38	3.3	81	nw.			2		5		nw.					fair.
Pensacola, Iquique, Peru	29.91	759.7	68	20.0	74	calm	0	0			10			0	0	sm'h		cloudy.
Powhatan, Port Royal, Martinigue, W. I.	30.10	764.5	78	25.6	69	e.			2		8		e.					cloudy.
Quinnebaug, Cons antinople, Turkey	30.29	769.4	49	9.4	78	ssw.			3		2		calm	0	0	sm'h		fair.
Ranger, Acapulco, Mexico*	29.89	759.2	75	23.9	81	calm			0		2		calm	0	0	sm'h		clear.
Richmond, Yokohama, Japan*	29.98	761.5	49	9.4	64	n.			1		10			0	0			cloudy.
Shenandoah, S. 3° 14′, W. 38° 17′*.	30.04	763.0	79	26.1	91	se.			2		10		se.			sm'h		fair.
St. Louis, League Island	30.47	773.9	38	3.3	81	nw.	12	5.4			10		nw.	0	0			cloudy.
Swatara, Yokohama, Japan*	29.85	758.2	48	8.9	70	n.			2		10		calm			sm'h		cloudy.
Tennessee, N. 28° 00′, W. 87° 58′	30.24	768.1	70	21.1	66	nne.	16	7.2			5			inap.	inap.	mod.		fair.
Vandalia, Key West, Florida*†	30.30	769.6	75	23.9	90	e.			2		2		calm					clear.
Wabash, Boston, Mass.	30.07	763.8	30	— 1.1	78	nw.	4	1.8			2		nw.	0	0			fair.
Wachusetts, Sitka, Alaska	30.05	763.3	39	3.9	91	calm			0		10		calm			sm'h		overcast.
Wyoming, Port Royal, S. C.	30.34	770.6	50	10.0	72	nnw.	12	5.4			2		calm	0	0			fair.
Yantic, Pensacola, Florida*	30.27	768.8	56	13.3	75	nne.			3		0							clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S.S. Nova Scotian, N. 52° 10′, W. 25° 14′	30.16	766.1	47	8.3		w.			4		5		w.			long	w.	fair.
S. S. Peruvian, Liverpool, Eng*	30.19	766.8	42	5.6		w.			6		3		w.	0	0			clear.
S.S. Polynesian, N. 50° 48′, W. 18° 39′*	30.20	767.1	49	9.4		wsw.			6		3		wsw.	0	0	r'gh	w.	clear.
S. S. Prussian, Halifax, N. S.*	29.85	758.2	26	— 3.3		nnw.			3		7†		nw.			mod.	sw.	clear.?
S. S. Scandinavian, N. 50° 02′ W. 31° 54′*	30.29	769.4	51	10.6		ssw.			7		7		wsw.	snow	&hail	high	nw.	hailing.
S. S. Waldensian, N. 55° 01′, W. 11° 43′*	30.25	768.3	50	10.0		wsw.			6		5†		wsw.	2 h'r	driz	high	w.	clear.†
AMERICAN STEAMSHIP COMPANY.																		
S. S. British Crown, N. 39° 41′, W. 68° 21′†	30.18	766.6	36	2.2		wnw.			4		3		nw.	0	0	mod.	cross	clear.
S. S. Illinois, N. 45° 42′, W. 36° 51′	30.27	768.8	52	11.1	93	sw.			6		2†		sw.			mod.	sw.	cloudy.†
S. S. Indiana, Philadelphia, Penn†	30.30	769.6	38	3.3	81	nw.			4		8		w.	0	0			clear.?
S. S. Ohio, N. 43° 24′, W. 56° 52′*†	29.60	751.8	36	2.2	90	w.			5		9		nw.			light	sw.	misty.
ANCHOR LINE.																		
S. S. Devonia, N. 48° 15′ W. 39° 27′*†	29.99	761.7	51	10.6		ssw.			4		7		ssw.			hv'y	ssw.	squally.
S. S. Galatia, N. 42° 08′, W. 58° 23′†	29.81	757.2				w.			5		8		sw.	10 h'r	10h'r	high	ssw.	
ATLAS LINE.																		
S. S. Ailsa, St. Marc, Hayti, W. I.†	30.13	765.3	73	22.8	85	se.			1		5		ese.	0	0	sm'h		fine.
S. S. Alvo, Colon, U. S. C.	30.08	764.0	80	26.7		nne.			3		8		nne.	0	0	mod.	ne.	fine.
BOSTON AND HALIFAX LINE.																		
S. S. Carroll, Boston, Mass†	29.81	757.2	43	6.1	59	nnw.								snow	snow			fair.
BRITISH METEOROLOGICAL OFFICE.																		
S. Auckland, S. 1° 00′, W. 31° 43′	29.96	761.0	79	26.1		ese.			1		9							raining.
S. Baroda, S. 49° 40′, E. 32° 30′	29.64	752.8	46.7	8.2	96	wsw.			0		8							drizzling.
Bk. Caldew, N. 0° 58′, W. 27° 32′	30.01	762.2	80	26.7		ne.			3		10							raining.
S. S. Cipero, off Ramsgate, England	30.48	774.2	49.2	9.6	93	calm			0		10							misty.
Bk. Coppename, N. 34° 35′, W. 38° 08′	30.19	766.8	65	18.3	92	ese.			2		8							d. clouds.
S. S. Gordon Castle, N. 8° 04′, E. 71° 32′	29.91	759.7	91	32.8	66	e.			1–2		3							d. clouds.
Bg. Hermine, S. 24° 23′, W. 26° 30′	30.19	766.8	78.7	25.9	80	ene.			4		5							d. clouds.
S. S. Humboldt, N. 41° 40′, W. 53° 55′	29.72	754.9	52	11.1	86	wnw.			3		9							d. clouds.
S. Lochee, N. 20° 40′, W. 39° 38′	30.08	764.0	69.2	20.7	85	w.			3		8							d. clouds.
S. S. Minho, N. 6° 20,′ W. 28° 25′	29.96	761.0	81.5	27.5	77	une.			1		7							dense mist.
Queen of Cambria, N. 14° 47′, E. 82° 40′	29.96	761.0	87	30.6	62	calm			0		0							blue sky.
BRISTOL LINE.																		
S. S. Brooklyn City, N. 48° 36′, W. 32° 40′*†	30.28	769.1	52	11.1		sw.			7		5		sw.	0	0	long	h'vy	squally.
CROMWELL LINE.																		
S. S. New Orleans, N. 28° 15′ W. 80° 00′*†	30.30	769.6	70	21.1		ene.					2		ne.			mod.	e.	clear.
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. Canada, Havre, France	30.52	775.4	53.6	12.0		s.			1		10		s.	2 h'r	2 h'r			
St. Laurent, N. 46° —′, W. 41° 10′*†	29.92	760.0	40.4	8.0		ssw.			10					rain	rain	hv'y	ssw.	hailing.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Lessing, Hamburg, Germany			65	18.3		ssw.			5		5		ssw.	2 h'r	2 h'r			fair.
S. S. Silesia, N. 41° 07′, W. 63° 39′*†.	29.87	758.7	30.5	2.5		n.			5		10		nne.	0	0		ssw.	overcast.
LEYLAND LINE.																		
S. S. Iberian, N. 45° 35′, W. 47° 10′						ssw.			0		10		w.	2 h'r	snow	high	wsw.	
MALLORY LINE.																		
S. S. Colorado, New York, N. N.†	30.18	766.6	35	1.7		n.			2		5		n.	0	0			fair.
MERCHANTS' EXPRESS LINE.																		
S. S. Hermod, N. 42° 22′, W. 47° 00′ *†	29.74	755.4	50	10.0		s.			7		10		sw.	2 h'r	driz	r'gh	s.	threatening
MERCHANTS' STEAMSHIP COMPANY.																		
S. S. Glenfyne, N. 9° 30′, W. 50° 00′	29.62	752.3	82	27.8		ne.			4		4		ne.			mod.	ne.	clear.
NATIONAL LINE.																		
S. S. Erin, N. 44° 52′, W. 38° 26′	30.17	766.3	48	8.9		s.			6		8		sw.	2 h'r	light	mod	ssw.	
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Amsterdam, N. 48° 54′, W. 24° 04′*†	30.52	775.2	54	12.2		wnw.			3							nw.		clear.
S. S. Alvena, N. 18° 37′, W. 74° 06′*†	29.99	761.0	69	20.6		s.			4							nne.		clear.
S. S. New York, N. 26° 30′, W. 79° 50′*†	30.25	768.3	74	23.3		nnw.			3							sm'h		hazy.
S. S. Olbers, N. 36° 00′ W. 12° 55*†	30.42	772.7	62	16.7		nne.			3–4								nw.	clear.
S. S. P. Caland, N. 47° 03′, W. 23° 25′	30.49	774.4	59.0	15.0		wsw.			3									fine.
NORTH GERMAN LLOYD																		
S. S. Hermann, N. 36° 50′, W. 75° 41′*†	30.36	771.1	47.3	8.5		n.			4		3		n.	0	0	sm'h	n.	fair.
S. S. Hohenzollern, S. 33° 13′, W. 51° 13′*	30.00	762.7	75.9	24.4		wnw.			4		2		nw.	0	0	3	nw.	clear.
S. S. Kronprinz F. Wilhelm, N. 46° 54′, W. 35° 26′	30.13	765.3	51.8	11.0		wsw.			0		7		nw.	0	0	6–8	w.	squally.
S. S. Mosel, N. 49° 37′, W. 19° 14′	30.47	773.9	52.2	11.2		wsw.			...		4?		w.	¼ h'r	light	h'vy	w.	cloudy.?
S. S. Neckar, N. 47° 42′ W. 28° 15′	30.45	775.4	49.3	9.6		ssw.			3		4		s.	0	0	high	nw.	fair.
S. S. Nurnburg, S. 26° 50′, W. 39° 12′*	29.97	761.2	77.0	25.0	91	s.			1		10		s.	3 h'r	light	3	s.	cloudy.
S. S. Oder, N. 40° 38′, W. 68° 46′*.	29.97	761.2	36.8	2.7		nnw.			5		2		nw.	0	0	sm'h		fair.
S. S. Ohio, Bremerhaven, Germany	30.43	772.9				w.			4		4		wnw.	0	0			fair.
S. S. Saller, N 49° 32′, W 8° 08′	30.48	774.2	45.5	7.5		ne.			3		10			6 h'r	light	long	w.	drizzling.
S. S. Strassburg, N. 38° 38′, W. 71° 52′	30.16	766.1	41.0	5.0	100	nnw.			0		6		nnw.	0	0	r'gh	n.	cloudy.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Belgic. N. 22° 08′, E. 115° 04′†	30.19	766.8	67	19.4	84	ne.			4		1		nne.	0	0	light	ne.	clear.
S. S. Gaelic, N. 34° 24′, E. 141° 43′†	29.90	759.4	63	17.2	78	s.			3		10		s.			sm'h	s.	overcast.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, New York, N. Y.†	30.17	766.3				nw.			4		8		nw.	0	0			clear.?
S. S. Seminole, N. 41° 00′, W. 71° 50′†	30.12	765.0	34	1.1	79	nnw.			4		2		nw.	0	0	long	sw.	clear.
OREGON IMPROVEMENT COMPANY.																		
S. S. Missi-sippi, N. 44° 50′, W. 124° 36′†	30.17	766.3	44	6.7	60	ene.			2		6					sm'h		clear.
S. S. Willamette, N. 43° 31′, W. 124° 38′*†	30.14	765.5	42	5.6	83	ene.			3		5		ne.	0	0	mod.	n.	d. clouds.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Oregon, Portland, Oregon†	30.15	765.8	35	1.7	90	nw.			1		0							fine.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, N. 34° 29′ W. 120° 57′†	29.98	761.5	51	10.6	93	ne.			2		8		sw.			mod.	sw.	fair.
S. S. Geo. W. Elder, N 45° 09′ W 124° 28′†	30.15	765.8	42	5.6		nw.			4		4		nw.	0	0	light	nw.	clear.
S. S. Idaho, N. 39° 25′, W. 124° 00′	29.98	761.5	45	7.2	92	ne.			3		2		ne.			light	nw.	clear.
S. S. Orizaba, N. 35° 09′, W. 120° 43′†	30.02	762.5	58	14.4	70	se.			4		5		sw.	rain	rain	h'vy	sw.	cloudy.
S. S. State of California, N. 40° 50′, W. 124° 30′†	30.01	762.2	42	5.6	91	ne.			5		0			snow	snow	sm'h	w.	clear.
S. S. Victoria, Nainamo, Vancouver's Id.†	30.21	767.2	27	— 2.8	77	calm			0		0							clear.
PACIFIC MAIL STEAMSHIP CO.																		
S. S. Australia, S. 34° 10′, E. 170° 13′	29.74	755.4	66	18.9	100	ene.			5		10		ene.	24 h'r	24 h'r	long	ene.	heavy rain.
S. S. City of Rio de Janeiro, Panama, Panama†	30.15	765.8	79	26.1	78	n.			1		2		n.	0	0	sm'h		fine.
S. S. City of Sydney, Sydney, N. S. W†	29.88	758.9	70	21.1	75	e.			4		2		e.	0	0	sm'h		clear.
S. S. City of Tokio, N. 34° 43′, E. 149° 54′†	30.18	766.6	55	12.8	68	e.			4		5		se.	0	0	r'gh	e.	hazy.
S. S. Colon, Aspinwall, Panama†	30.02	762.5	80	26.7		nne.			3		8		ne.					cloudy.
S. S. South Carolina, Burica Point, Costa Rica,†	29.99	761.7	85	29.4	76	ese.			1		5		se.	0	0	sm'h		
S. S. Zelandia, N. 10° 15′ W. 163° 01′	29.92	760.0	76	24.4	91	var.			2		0					mod.	ne.	fine.
QUEBEC STEAMSHIP CO.																		
S. S. Muriel,. N. 21° 05′, W. 63° 57′						e.			3		0			0	0	mod.	e.	fair.
S. S. Bermuda, Mayagues, Porto Rico, W. I†	30.25	768.3	76	24.4		e.			5		2			0	0			fine.
RED STAR LINE.																		
S. S. Belgenland, N. 41° 54′, W. 64° 16′†	29.93	760.2	40	4.4	31	nw.			3		8		nw.	18h'r	18h'r	h'vy	wsw.	misty.
S. S. Rhynland, N. 45° 49′ W. 34° 46′	30.36	771.1	47	8.3	77	ssw.			0		10		sw.	0.1	3.	long	sw.	cloudy.
S. S. Vaderland, Antwerp, Belgium*†	30.45	773.4	53	11.7		n.			1		5†		w	0	0			cloudy.?
S. S. Waesland, N. 45° 15′ W. 37° 55′	30.27	768.8	54	12.2		sw.			5		5		wsw.	0	0	mod.	nnw.	fair.
ROTTERDAM LINE.																		
S. S. Schiedam, Brouwershaven, Netherlands*	30.44	773.2	50.9	10.5	77	n.			2		3		nw.	0	0			clear.
S. S. W. A. Scholten, Rotterdam, Holland*	30.21	767.3	59.0	15.0	82	n.			4		5		n.	0	0			

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
THINGVALLA LINE.																		
S. S. Thingvalla, N. 47° 07′ W. 39° 59′†	30.04	763 0	45.5	7.5	.....	ssw.	.....	.....	5	.....	10	.....	ssw.	1 h'r	1 h'r	h'vy	ssw.	covered.
WARREN LINE																		
S. S. Iowa, N. 48° 29′ W. 28° 41′*†	30.48	.....	54	12.2	.....	s.	.....	.....	3	.....	3	.....	s.	1 h'r	hail	mod.	w.	clear.
WHITE STAR LINE.																		
S. S. Celtic, N. 51° 04′ W. 14° 30′.*†	30.32	770.1	50	10.0	100	wsw.	.....	.....	4	.....	2	.....	w.	0	0	hv'y	wnw.	fair.
WILSON LINE.																		
S. S. Romano, N. 40° 42′ W. 58′ 51′*†	29.80	756.9	52	11.1	.....	w.	.....	.....	2	.....	8	.....	w.	0	0	mod.	sw.	cloudy.
S. S. Salerno, New York, N. Y.†	30.18	766.6	.....	.....	.....	w.	.....	.....	2–3	.....	7	.....	w.	.....	.....	.....	.....	drizzling
WINSOR LINE.																		
S. S. Catherine Whiting, Providence, R. I.†	30.13	765.3	.....	.....	.....	nnw.	.....	.....	1	.....	.....	.....	nw.	.....	.....	.....	.....	
MISCELLANEOUS.																		
Sch. Addie Fuller, Cedar Keys, Florida†	30.37	771.4	59	15.0	65	ne.	.....	.....	3	1 ck	0	.....	.....	0	0	.....	.....	clear.
Bk. Adelaide, S. 4° 23′, W. 33° 17′*†	30.02	762.5	60	26.7	.....	se.	.....	.....	4	.....	8	.....	sse.	2 h'r	hv'y	mod.	sse.	cloudy.
Bk. Alpha, N. 36° 20′, W. 74° 03′*†	30.24	768.1	49	9.4	.....	n.	.....	.....	9	.....	8	.....	nw.	0	0	r'gh	n	cloudy.
Sch. Annie M. Law, N. 43° 07′ W. 60° 18′*†	29.78	756.4	41	5.0	57	nw.	.....	.....	2	.....	10	.....	nw.	13 h'r	13 h'r	high	ssw.	sleeting.
Sch'r Annie R. Lewis, N. 40° 07′, W. 73° 50′*†	30.12	765.0	40	4.4	.....	nw.	.....	.....	3	.....	8	.....	wnw.	0	0	sm'h	ese.	cloudy.
Sch'r Annie M. Smull, S. 0° 20′ W. 28° 59′*†	29.90	759.4	88	31.1	.....	ese.	.....	.....	.....	.....	2	.....	ese.	1 h'r	1 h'r	mod.	se.	clear.
Bk. Bergenseren, N. 33° 25′ W. 40° 00′†	30.11	764.8	.....	.....	.....	ene.	.....	.....	3	.....	.....	.....	e.	rain	rain	3	ne.	overcast.
Bk. Celestina, N. 29° 09′, W. 38° 05′*†..	30.05	763 3	.....	.....	.....	ese.	.....	.....	4	.....	6	.....	wnw.	0	0	sm'h	.....	fair.
Bk. E. L. Pettingill, S. 37° 13′, W. 82° 12′†	30.30	769.6	.....	.....	.....	sse.	.....	.....	2	.....	8?	.....	sse.	0	0	sm'h	wsw.	clear.?
S Enoch Train, Bremerhaven, Germany*	30.27	768.8	.....	.....	.....	nw.	.....	.....	3	.....	4	.....	nw.	0	0	.....	.....	fine.
U.S.F.C.S.S. Fish Hawk, Annapolis, Md.†	30.34	770.6	39	3.9	73	w.	.....	.....	3	.....	5	.....	nw.	0	0	.....	.....	fair.
Bk Freya, N. 36° 15′, W. 73° 58′	.....	.....	51	10.6	.....	n.	.....	.....	6	.....	5	.....	n.	0	0	cross	ne.	squally.
S. Grecian, N. 18° 50′ W. 25° 55′*†	30.10	764.5	71	21.7	.....	ene.	.....	.....	4	.....	0	.....	.....	0	0	mod.	nw.	hazy.
Bk. Geo. Booth, S. 33° 05′, W. 13° 09′*†.	30.10	764.5	.....	.....	.....	wnw	.....	.....	2	.....	.....	.....	.....	2 h'r	2 h'r	long	ssw.	
Bk. Granville, S. 2° 30′, W. 29° 00′*†..	30.13	765.3	.....	.....	.....	se. to e.	.....	.....	1	.....	.....	.....	.....	rain	rain	sm'h	.....	squally.
Schr. Henry Denison, N. 8° 24′, W. 58° 18′†	29.98	761.5	.....	.....	.....	ene.	.....	.....	3	.....	3	.....	ene.	0	0	mod.	ese.	fair.
Bk. Johanne Auguste, S. 17° 28′, E. 86° 51′*†	29.85	758.2	.....	.....	.....	ene.	.....	.....	2	.....	5	.....	ese.	4 h'r	light	long	se.	squally.
Bk. Kate Cann, N. 46° 24′, W. 32° 42′	.....	.....	.....	.....	.....	sw.	.....	.....	4	.....	8	.....	wsw.	1 h'r	1 h'r	mod.	wsw.	fine.
Bkt. Kryolith, N. 40° 27′, W. 36° 10′*†	30.34	770.6	.....	.....	.....	e.	.....	.....	1	.....	10	.....	e.	0	0	light	n.	cloudy.
S. S. Lamperts, N. 45° 10′ W. 36° 10′*†	30.29	769.4	51.5	10.8	79	sw.	.....	.....	6	.....	9	.....	.....	.....	.....	3	.....	overcast.
Schr. Maggie Abbott, Baracoa, Cuba, W. I.*†	30.10	764.5	.....	.....	.....	ese.	.....	.....	4	.....	.....	.....	e.	0	0	.....	.....	clear.
S. S. Malabar, N. 41° 57′, W. 47° 20′*†	29.87	758.7	.....	.....	.....	ssw.	.....	.....	7	.....	.....	.....	s.	0	0	h'vy	s.	cloudy.
Bk. Peppina, N. 37° 16′, E. 13° 06′†	30.28	769.1	61	16.1	88	calm	.....	.....	0	.....	0	.....	.....	.....	.....	sm'h	.....	clear.
Bk Pilgrim, S. 46° 40′, E. 46° 00′*†	29.00	736.6	.....	.....	.....	sw.	.....	.....	3	.....	10	.....	w.	0	0	long	w.	overcast.
Bkt. Spotless, N. 36° 04′, W. 74° 22′*†	30.50	774.7	.....	.....	.....	nw.	.....	.....	.....	.....	.....	.....	nw.	.....	.....	mod.	nw.	fine.
Bk. Stella, S. 48° 11′, W. 57° 03′*..	29.86	758.4	50.2	10.1	94	sw.	.....	.....	5	.....	3	.....	sw.	0	0	mod.	sw.	clear.
Bk. Sunbeam, N. 26° 29′, W. 66° 04′*†	30.29	769.4	74	23.3	76	se.	.....	.....	2	.....	0	.....	.....	0	0	sm'h	.....	clear.
S. S. Victoria J. Peed, N. 33° 14′. W. 79° 11′*†	30.24	768.1	.....	.....	.....	n.	.....	.....	5	.....	0	.....	.....	.....	.....	.....	e.	
Bg. Wauburn. S. 22° 54′, E. 4° 54′*†	30.10	764.5	.....	.....	.....	s.	.....	.....	5	.....	6	.....	s.	.....	.....	light	s.	
S. Wm. Woodbury, Bremerhaven, Germany*†	30.20	767.1	51	10.6	72	nw.	.....	.....	2	.....	.....	.....	wnw.	.....	.....	.....	.....	



Data, as appearing in the International Bulletin of similar date.

Isobars in *black* exhibit atmospheric pressure at sea-level, and are charted from data as reported by the several observers.

Isotherms in *red* exhibit temperature of air, similarly charted.

Broken or dotted lines indicate that the lines so broken are doubtful.

Arrows, when charted, fly with the wind and exhibit wind-direction and force.

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W. B. Hazen

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

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INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON MARCH 12, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec.	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours	.....	.....	30.26	768.6	64.4	18.0	80	w.	.....	.....	1	.....	0	.....	.....	0	0	clear	Moiroud.
Algiers	.....	.....	30.27	768.8	59.0	15.0	76	ne.	.....	.....	1	.....	0	.....	.....	0	0	clear	Nicolas.
La Calle	.....	.....	30.24	768.2	63.0	17.2	76	sw.	.....	.....	1	.....	2	.....	.....	0	0	fair	Fonfréde.
Tunis	.....	.....	30.23	767.8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.25	768.4	60.4	15.8	66	n.	.....	.....	2	.....	1	.....	.....	0	0	very fair	Dumas.
Tebessa	.....	.....	30.24	768.1	55.8	13.2	43	se.	.....	.....	1	.....	2	.....	.....	0	0	fair	Derché.
Geriville	.....	.....	.....	.....	58.6	14.8	12	n.	.....	.....	1	.....	4	.....	.....	0	0	cloudy	Lonchamp.
Laghouat	.....	.....	30.28	769.0	59.0	15.0	51	e.	.....	.....	1	.....	1	.....	.....	0	0	very fair	Herblin.
Biskra	.....	.....	30.24	768.2	68.4	20.2	53	s.	.....	.....	2	.....	8	.....	.....	0	0	very cloudy	Malau.
Australian.																			
Melbourne, Victoria	29.69	754.1	29.78	756.4	63.2	17.3	74	s.	3	1.3	.....	.....	1	.....	.....	0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.81	757.1	30.36	771.1	60.1	15.6	45	e.	.....	.....	2	.....	2	.....	.....	0	0	.....	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.60	751.9	30.39	771.9	46.4	8.0	44	wnw.	10.5	4.7	.....	.....	6	.....	.....	0	0	.....	Dr. Wierzbiski.
Eperies	29.40	746.8	30.30	769.5	50.0	10.0	37	nw.	.....	.....	5	1 cs	0	.....	.....	0	0	.....	Julius Mikolik.
Gratz	29.09	738.8	30.35	771.0	53.2	11.9	65	e.	.....	.....	2	.....	10	.....	.....	0	0	.....	Andreas Rospini.
Hermannstadt	28.79	731.3	30.24	768.0	56.1	13.4	27	nnw.	.....	.....	2	.....	2	.....	.....	0	0	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	29.04	737.7	30.43	772.8	45.7	7.6	89	ene.	.....	.....	3	.....	10	.....	.....	0.169	4.3	rainy	The Staff.
Lemberg	29.23	742.5	30.25	768.3	43.2	6.2	67	nw.	.....	.....	3	.....	7	.....	.....	0	0	.....	Dr. T. Stanecki.
Pola	30.14	765.6	30.26	768 5	60.8	16.0	59	wnw.	.....	.....	1	.....	0	.....	.....	0	0	.....	I. R.Hydrographic Office.
Szathmar	29.80	756.9	30.27	768.9	48.9	9.4	40	nw.	.....	.....	3	.....	0	.....	.....	0	0	.....	Joseph Midlinszky, S. J.
Szegedin	30.05	763.2	30.33	770.4	55.4	13.0	42	se.	.....	.....	2	.....	5	.....	.....	0	0	.....	Karl Stancel.
Trieste	30.19	766.8	30.29	769.4	64.4	18.0	39	ne.	.....	.....	3	.....	0	.....	.....	0	0	.....	Rieder.
Vienna	29.70	754.4	30.43	773.0	52.0	11.1	42	nw.	.....	.....	2	.....	8	.....	.....	0	0	.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	30.12	765.0	30.22	767.6	44.7	7.1	73	ssw.	12	5.4	.....	.....	7	.....	.....	0	0	d. clouds	W. Boswell.
Armagh, Observatory	30.20	767.1	30.44	773.2	48.0	8.9	77	sw.	20	8.9	.....	.....	.....	.....	.....	.....	.....	.....	S. Oall.
Bidston, Liverpool Obs'y	.....	.....	30.51	774.9	52.1	11.2	61	w.	15	6.7	.....	.....	5	.....	.....	.....	.....	d. clouds	John Hartnup.
Bolton, Sharples	29.95	760.7	30.50	774.7	49.7	9.8	64	wsw.	12	5.4	.....	.....	8	.....	.....	.....	.....	d. clouds	Thomas Mackereth.
Bradford, Yorkshire	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0	0	.....	A.S. J.McLandsborough, F.R
Bridgetown, Barbadoes	30.02	762.5	30.05	763.3	80.0	26.7	74	ne.	.....	.....	3	.....	3	.....	.....	.....	.....	d. clouds	Pvt. J. Surgenor, A. H.C.
Cardington	.....	.....	30.50	774.7	51.0	10.6	67	w.	.....	.....	0.2	.....	1	.....	.....	.....	.....	blue sky	John McLaren.
Chatham, School M. E	30.39	771.9	30.53	775.4	50.1	10.1	82	calm	.....	.....	0	.....	6	.....	.....	blank	blank	d. clouds	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	30.34	770.6	30.57	776.5	51.0	10.6	72	se.	.....	.....	1	.....	5	.....	.....	.....	.....	d. clouds	The Staff.
Fort Napier, Natal	27.55	699.8	29.77	756.1	87.2	30.7	41	se.	.....	.....	1	.....	0	.....	.....	.....	.....	blue sky	Pvt. E. K Annis, A. H.C.
Free Town, Sierra Leone	29.63	752.6	29.86	758.4	89.0	31.7	66	nw.	.....	.....	1	.....	3	.....	.....	.....	.....	blue sky	Sergt. John Robinson.
Galway, Queen's College	.....	.....	.....	.....	.....	.....	.....	wsw.	.....	.....	2	.....	10	.....	.....	0	0	gloomy	J. O'Donaghue.
Gibraltar, Mediterranean	30.34	770.6	30.39	771.9	63.4	17.4	78	e.	.....	.....	4	.....	0	.....	.....	.....	.....	blue sky	Opl. O. Baldwin.
Glasgow, Observatory	30.08	764.0	30.28	769.1	47.7	8.7	74	sw.	.....	.....	4	.....	5 k	.....	.....	.....	.....	d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	30.36	771.1	30.54	775.7	51.3	10.7	70	wnw.	.....	.....	1	.....	10	.....	.....	.....	.....	overcast	The Staff.
Guernsey	30.24	768.1	30.55	776.0	49.0	9.4	95	n.	.....	.....	1	.....	10	.....	.....	.....	.....	overcast	A. Collenette, F. M. S.
Kew, Observatory	30.50	774.7	30.54	775.7	49.7	9.8	64	n.	3	1.3	.....	.....	8	.....	.....	.....	.....	misty	The Staff.
Leicester, Museum	30.26	768.6	30.53	775.4	35.0	1.7	98	sw.	.....	.....	1	.....	0	.....	.....	.....	.....	blue sky	J. C. Smith.
Malta, Mediterranean	30.18	766.6	30.26	768.6	62.6	17.0	69	ne.	.....	.....	1	.....	0	.....	.....	.....	.....	blue sky	I. H. Whysall.
Nassau, Bahamas	30.22	767.6	30.26	768.6	75.0	23.9	76	ne.	.....	.....	1	.....	4	.....	.....	.....	.....	d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.99	761 7	30.52	775.2	50.4	10.2	59	w.	.....	.....	1	.....	4	.....	.....	.....	.....	d. clouds	John Mac Email.
Oxford, Radcliffe Obs'y	30.30	769.6	30.53	775.4	51.6	10.9	64	w.	.....	.....	1	.....	3	.....	.....	.....	.....	misty	The Staff.
Plymouth	30.47	773.9	30.55	776.0	51.8	11.0	83	sw.	.....	.....	2	.....	7	.....	.....	.....	.....	d. clouds	John Merrifield.
Sandwick Manse, Orkneys	.....	.....	29.98	761.5	47.9	8.8	77	sw.	36	16.1	.....	.....	10	.....	.....	.....	.....	misty	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	30.08	764.0	30.15	765.8	61.4	16.3	50	nne.	.....	.....	2	.....	0	.....	.....	.....	.....	misty	W. H. Lyne.
Sheffield	30.20	767.1	30.48	774.2	54.6	12.7	65	sw.	.....	.....	2	.....	2	.....	.....	0	0	d. clouds	W. F. Cooper.
Silloth Rectory	30.39	771.9	30.42	772.7	47.5	8.6	83	wsw.	.....	.....	5	.....	6	.....	.....	0	0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	30.50	774.7	48.9	9.4	69	w.	15	6.7	.....	.....	6	.....	.....	.....	.....	d. clouds	R. S. J. Perry.
Stratfield Turgiss	30.31	769.9	30.53	775 4	51.6	10.9	69	e.	.....	.....	1	.....	3	.....	.....	.....	.....	d. clouds	Rev. C.H. Griffiths, F.M.S.
Truro, Royal Institution	30.51	774.9	30.55	776.0	55	12.8	68	nw.	.....	.....	6	.....	5	.....	.....	.....	.....	d. clouds	W. Newcombe.
Valencia, Observatory	30.50	774 7	30.52	775.2	50.7	10.4	67	sw.	17	7.6	.....	.....	7	.....	.....	.....	.....	d. clouds	The Met'g'l Office.
Canadian.																			
Charlottetown, P. E. Island	29.97	761.2	30.02	762.5	6	—14.4	100	calm	0	0	.....	.....	10 n	.....	calm	0	0	threatening	H. J. Cundall, C. E.
Chatham, N. B*	29.94	760.5	30.01	762.2	4	—15.6	100	nw.	1	0.4	.....	0	0	.....	.....	0	0	clear	G. A. Blair.
Father Point, Quebec*	29.88	758.9	29.90	759.4	19	— 7.2	73	sw.	12	5.4	.....	.....	10 n	.....	calm	inap.	inap.	light snow	J. McWilliams.
Fort Garry, Manitoba*	29.10	739.1	30.01	762.2	4	—15.6	96	nw.	6	2.7	.....	5 k	5 n	nw.	nw.	0	0	cloudy	James Stewart.
Halifax, N. S*	29.94	760.5	30.08	764.0	23	— 5.0	96	calm	0	0	.....	8 k	0	v.	.....	inap.	inap.	cloudy	A. Allison.
Kingston, Ontario*	29.55	750.6	29.89	759.2	31	— 0.6	92	sw.	4	1.8	.....	.....	10 ks	.....	.....	0.04	1.0	cloudy	A. P. Knight, M. A.
Montreal, Quebec*	29.70	754.4	29.91	759.7	29	— 1.7	92	w.	8	3.6	.....	5 ck	5 n	w.	.....	inap.	inap.	light snow	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.13	739 9	29.86	758.4	24	— 4.4	88	ne.	4	1.8	.....	2 k	5 n	sw.	sw.	0.33	8.4	fair	Rev. R. Mosley.
Port Dover, Ontario	29.15	740.4	29.87	758.7	31	— 0.6	100	calm	0	0	.....	.....	10 n	.....	.....	0.10	2.5	threatening	H. Morgan.
Port Stanley, Ontario	29.17	740.9	29.84	757.9	31	— 0.6	100	e.	10	4.5	.....	.....	10 n	.....	e.	0.15	3.8	light snow	M. Payne.
Quebec, Quebec*	29.60	751.8	29.93	760.2	29	— 1.7	100	calm	.....	.....	0	.....	10 n	.....	calm	0.05	1.3	heavy snow	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.37	746.0	29.85	758.2	15	— 9.4	76	calm	0	0	.....	.....	10 s	.....	sw.	0	0	cloudy	W. H. McIntyre.
Saugeen, Ontario*	29.09	738.9	29.82	757.4	30	— 1.1	92	calm	0	0	.....	.....	10 s	.....	.....	0.13	3.3	light snow	
St. Andrews, N. B	29.98	761.5	30.04	763.0	23	— 5.0	87	calm	0	0	.....	.....	10 n	.....	.....	0	0	cloudy	
Sydney, C. B*	29.98	761.5	30.05	763.3	5	—15.0	100	sw.	4	1.8	.....	0	0	.....	.....	0	0	clear	G. Murdock, C. E.
Toronto, Ontario*	29.48	748.8	29.88	758 9	31	— 0.6	96	sw.	4	1.8	.....	.....	10 n	.....	.....	0.04	1.0	light snow	Magnetic Observatory.
Yarmouth, N. S*	30.02	762.5	30.09	764.3	30	— 1.1	88	w.	1	0.4	.....	5 k	0	w.	.....	0	0	fair	Lt. F. E. Wilmot, R. N.
Sub-series.																			
St. Johns, Newfoundland	29.73	755.1	30.00	762.0	20	— 6.7	.....	nw.	1	0.4	.....	0	0	.....	.....	0.20	5.1	fair	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	29.93	760.2	29.96	761.0	65.0	18.3	94	wsw.	15.7	7.0	.....	.....	10 s	.....	.....	0	0	hazy	John Duthie.
Cape Town, C. G. H. Obs'y	29.97	761.2	30.01	762.2	86.0	30.0	28	ssw.	24	10.7	.....	10	10	.....	.....	0	0	.....	The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Chinese (*Sub-series*).																			
Hankow	30.37	771.4	30.65	778.5	52.2	11.2	49	nne.			3		0			0	0		N. Titoushkin.
Zi-Ka-Wei, *near* Shanghai	30.52	775.1	30.54	775.7	40.1	4.5	75	ne.	2.9	1.3			0			0	0	clear	M. Marc Dechevrens, S.J.
Danish.																			
Copenhagen	30.33	770.3	30.37	771.5	47.7	8.7	58	w.	22.4	10			0						Oversergent Fischer.
Fanöe	30.38	771.6	30.40	772.1	44.8	7.1	88	w.			4		1						Overloerer Lauridsen.
Godthaab, Greenland	29.43	747.4	29.47	748.5	1.4	—17.0	90	ene.			2		10						S. Kleinschmidt.
Stykkisholm, Iceland	29.11	739.3	29.15	740.4	20.8	— 6.2	95	w.			7		10					snowing	A. O. Thorlacius.
Thorshavn	29.38	746.2	29.41	747.1	47.8	8.8	87	ssw.	42.5	19			10					raining	Overloerer Bergh.
Vestervig	30.21	767.3	30.30	769.6	43.5	6.4	94	w.			4		2						*Loearer Oesterboi.*
French.																			
Agen, Normal School	29.79	756.6	30 44	773.2	55.0	12.8	80	calm			0		fg			0	0	dense fog	M. Labroue, Director.
Alençon, Normal School	29.95	760.6	30.50	774.6	54.5	12.5	77	ne.			1		k		s.	0	0		M. Nicot, Director.
Arras, Engineer School	30.21	767.0	30.46	773.7	51.3	10.7	82	nne.					kn			0.016	0.4		M. Klein, Commandant.
Avignon, Normal School	30.20	767.0	30.28	769.0	69.8	21	34	n.			2		0			0	c	clear	M. Giraud, Director.
Bar-sur-Seine	29.90	759.4	30.47	773.8	52.0	11.1	74	e.			1		10			0	0	covered	M. Saillard, Director.
Beauvais, Normal School	30.24	768.0	30.51	775.0	54.0	12.2	74	nnw.			1		10		nw.	0.047	1.2	covered	M. Frère Eugène Mari.
Besançon, Normal School	29.48	748.8	30.41	772.3	50.0	10	74	ne.			1		n		ne.	0	0		M. Gobin, Director.
Bordeaux, Observatory	30.21	767.3	30.48	774.1	49.5	9.7	85	wnw.			1		10			0.004	0.1	covered	M. *Rayet*, Director.
Bourges, Normal School	29.91	759.6	30.48	774.1	51.8	11	83	ne.					kn		ne.	0	0		M. Postel, Director.
Brest, Naval Observatory	30.30	769.6	30.54	775.7	56.5	13.6	79	ne.			1		8		ne.	0	0		M. de Kermaree, Dir.
Caen, Normal School	30.42	772.7	30.50	774.6	54.5	12.5	86	nnw.			1		10		n.	0	0	covered	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	30.04	753.0	30.37	771.3	53.2	11.8	90	s.			1		10			0	0	covered	M. Jadot, Director.
Charleville, Normal School	29.93	760.2	30.45	773.3	57.2	14	69	sw.			1		8			0.04	1.	¾ covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	29.04	737.5	30.40	772.2	56.3	13.5	58	w.			1		0			0	0	clear	M. Alluard, Director.
Cluny, Normal School	29.62	752.3	30.43	773.0	46.4	8	100	se.			2		8		se.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.58	751.3	30.46	773.7	55.2	12.9	77	nw.			1		5 n	nw.	nw.	0	0	very cloudy	Dr. Goulet, Director.
Gap, Normal School	27.71	703.7	30.22	767.5	60.8	16	69									0	0		M. Jeangirard, Director.
Gréasque, du. Rhone	29.12	739.7	30.23	767.8	68.9	20.5	31	n.			2		0			0	0	clear	M. Kina, Director.
Grenoble, *Normal School*	29.61	752.0	30.37	771.5	61.7	16.5	64	ese.			1		0			0	0	clear	M. Ablard, Director.
Guéret, Normal School	28.86	733.1	30.45	773.5	57.2	14	65	ene.			1		2			0	0	slightly cl'dy	M. Rivoire, Director.
Lamballe, Normal School	30.27	768.8	30.55	775.9	50.4	10.2	92	n.			1		10		n.	0	0	dense fog	M. Ollitrault, Director.
Lescar, Normal School	29.91	759.7	30.48	774.3	51.8	11	75	w.			1		10			0	0	covered	M. Chauvin, Director.
Lorient, Naval Observatory	30.46	773.7	30.56	776.3	59.9	15.5	68	ne.			1		2			0	0	¼ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.34	745.3	30.42	772.6	52.0	11.1	77	e.			1		10	n.	ne.	0	0	covered	M. André, Director.
Mans, Normal School	30.21	767.2	30.52	775.2	54.5	12.5	75	n.			3		10			0	0	covered	M. Piboen, Director.
Marseille, Observatory	30.00	761.9	30.27	768.8	62.6	17.0	69	sw.			1		0			0	0		M. *Stephan, Director.*
Montlouis l'instituteur	25.09	637.4	29.94	760.4	53.2	11.8	25	nw.	15.0	6.7			0			0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	30.13	765.4	30.27	768.8	71.2	21.8	36	nnw.			2		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.67	753.5	30.46	773.6	56.8	13.8	67	nw.			1	0	8kn		nw.	0	0	very cloudy.	M. Hasse, Director
Nantes, Observatory	30.37	771.4	30.53	775.5	55.6	13.1	78	n.			1-2		10k,n			0	0		M. Larocque, Director.
Perpignan, Observatory	30.19	766.7	30.30	769.5	70.3	21.3	20	n.	16.8	7.5			0			0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.49	545.9			31.8	— 0.1		e.			1		1		e.	0	0	clear	Gen'l de Nansouty, Dir.
Privas, Normal School	29.27	743.5	30.33	770.3	65.1	18.4	43	n.			1	1	1	n.	n.	0	0	clear	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.47	647.0			43.5	6.4	73	nne.			2		0			0	0	clear	M. Alluard, Director.
Rochefort, Naval Obs'y	30.46	773.6	30.49	774.4	56.1	13.4	82	nw.			1		1c		sw.	0	0	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	30.30	769.5	30.52	775.1	53.1	11.7	86	ne.			1		8		ne.	0	0	very cloudy	M. Mouillot, Director.
Rodez, Normal School	28.22	716.8	30.41	772.5	48.6	9.2	76	nw.			1		0			0	0	clear	M. Serger, Director.
Rouen, Normal School	30.46	776.3	30.50	774 8	54.3	12.4	72	sw.			1		1c			0	0	covered	M. Platrier, Director.
Saint Maur, Observatory	30.33	770.3	30.49	774.5	52.0	11.1	85	nne.			1		10		n.	0.047	1.2		M. Renou, Director.
Toulouse, Observatory	29.77	756.2	30.50	774.8	47.3	8.5	96	nnw.			2		10			0	0	covered	M. Bailland, Director.
Versailles, Observatory	29.99	761.8	30.48	774.2	54.7	12.6	77	n.			1					0	0		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	30.21	767.3	30.50	774.7	52.9	11.6	82	n.			2		10		nnw.	0.016	0.4		M. Marié Davy, Director
German.																			
Bamberg	29.57	751.0	30.43	773.0	50.0	10.0	70	calm			0	0	8 s;k			0.075	1.9		Prof. Dr. Hoh.
Berlin	30.25	768.3	30.43	772.9	50.4	10.2	39	nw.			1		0			0	0		Prof. Dr. Arndt.
Breslau	29.91	759.6	30.45	773.3	47.1	8.4	39	wnw.			3		0			0	0		Royal University Obs'y.
Carlsruhe	29.97	761.2	30.41	772.5	57.6	14.2	65	ne.			2		10	nw.		0	0	foggy	Albert Senz.
Cassel	29.71	754.5	30.42	772.7	51.4	10.8	52	nw.			2		4	nw.		0	0		Dr. H. Möhl.
Frankfort on the Main	30.06	763.6	30.44	773.1	51.6	10.9	70	ne.			1		1c			0.189	4.8		Physical Society.
Friedrichshafen	28.94	735.0	30.41	772.5	46.4	8.0	89	sw.			3		0			0	0		Wilhelm, Chief Tel.
Hamburg	30.39	771.8	30.48	774.2	47.7	8.7	64	w.			2		0			0	0		E. Preller.
Kiel	30.40	772.1	30.41	772 5	46.0	7.8	66	w.			3		2			0.008	0.2		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	30.08	763.2	30.48	774.2	48.6	9.2	47	nne.			1		3			0	0		H. Leppig, Asst.
Magdeburg	30.28	769.1	30.48	774.1	51.4	10.8	41	n.			1	0	0			0	0		Dr. Assmann.
Memel	30.18	766.5	30.22	767.7	37.9	3.3	92	wnw.			3	2 ck	0						Issermann.
Munich	28.54	725.0	30.43	773.0	53.8	12.1	66	ne.			4		8	e.		0	0		Central Station
Neufahrwasser	30.34	770.5	30.35	770.9	41.2	5.1	73	nw.			3		10			0	0		A. Lothes.
Neustadt, Palatinate	29.87	758.7	30.40	772.2	51.4	10.8	79	n.			1		10	n.		0	0		Dicknether.
Stuttgart	29.44	747.8	30.35	770.8	55.0	12.8	74	n.			1		7	n.		0	0		Prof. Dr. Schoder.
Wustrow	30.44	773.1	30.46	773.7	41.9	5.5	91	w.			3	0	5 s			0	0		Profs. Brandes & Reimer.
Greek.																			
Athens	29.79	756.7	30.19	766.7	65.7	18.7		sw.			1.5		0			0	0	clear	Schmidt & Wourlisch.
Indian.																			
Bellary	28.45	722.6			95.8	35.4	8	e.	4.6	2.1		0	0			0	0	blue sky	
Kurrachee	29.99	761.7	30.04	762.9	89.8	32.1	38	wsw.	11	4.9			5	ssw.		0	0	d. clouds	
Deesa	29.47	748.6	29.94	760.4	93.2	34.0	23	ese.	13.0	5.8			4	sse.		0	0	d. clouds	
Bombay	29.86	758.4	29.90	759.3	83.5	28.6	71	wnw.	10	4.5			0			0	0	blue sky	
Poona, Yarrowda	28.04	712.2	29.84	757.9	96.8	36.0	13	wsw.	9	4.0			0			0	0	blue sky	
Belgaum	27.38	695.4	29.86	758.4	90.0	32.2	13	ese.	8	3.6			8	sw.		0	0	misty	
Lahore	29.31	744.5	30.06	763.5	81.0	27.2	18	nw.	1.4	0.6			0			0	0	blue sky	
Roorkee	29.10	739.2	30.01	762.2	79.4	26.3	22	nw.	1.6	0.7			0			0	0		
Agra	29.46	748.4	30.02	762.6	87.2	30.7	13	n.	2.6	1.2			0			0	0		
Nagpur	28.90	734.0	29.92	760.0	92.5	33.6	24	s.	5.1	2.3			5	s.		0	0	d. clouds	
Jubbulpore	28.64	727.6	29.98	761.4	92.3	33.5	10	ne.	7.5	3.4			0			0	0	blue sky	
Lucknow	29.54	750.2	29.91	759.6	88.1	31.2	13	wsw.	6.0	2.7			0			0	0	misty	
Allahabad	29.68	754.0	30.00	761.9	85.4	29.7	19	sw.	2.5	1.1			0			0	0	blue sky	
Patna	29.80	756.9	29.99	761.7	84.8	29.3	27	ssw.	6.0	2.7			2	ssw.	ssw.	0	0		
Hazaribagh	27.99	711.0	30.03	762.6	75.8	24.3	29	n.	8.5	3.8			6			0	0	misty	
Cuttack	29.87	758.7	29.95	760 8	92.3	33.5	34	s.	0.5	0.2			5			0	0	d. clouds	
Calcutta, Allpore	29.98	761.4	30.00	761.9	83.1	28.4	33	nne.	5.0	2.2			9	nw.		0	0	d. clouds	
Dhubri	29.80	757.0	29.93	760.1	75.8	24.3	42	sw.	1.5	0.7			2	sw.	sw.	0	0	d. clouds	
Chittagong	29.91	759.6	30.00	761.9	83.7	28.7	44	wnw.	1.6	0.7			0			0	0	blue sky	
Sibsagar	29.61	752.2	29.95	760.8	75.6	24.2	64	ne.	2.6	1.2			0			0	0	blue sky	
Jeypore	28.58	726.0	30.02	762.5	85.9	29.9	21	nne.	5.4	2.4			3	n.		0	0	d. clouds	
Zanzibar, Africa	29.83	757.7			84.1	28.9	77	n.	4.4	2.0			6		ene.	0.02	0.5	threatening	
Trichinopoly	29.71	754.6			89.3	31.8	43	ese.	2	0.9			0			0	0	blue sky	
Italian.																			
Udine	29.87	758.8	30.28	769.2	64.2	17.9	47	e.	6.9	3.1			0			0	0		Prof. Giovanni Clodig.
Milan	29.78	756.3	30.30	769.5	63.7	17.6	52	sse.	1.8	0.8			0			0	0		Prof. Schiaparelli.
Padua	30.17	766.2	30.28	769.0	62.2	16.8	53	e.	13.6	6.1			0			0	0		*Prof. Dott. Lorenzoni.*
Moncalieri	29.37	746.1	30.28	769.2	61.9	16.6	58	se.	2.5	1.1			0			0	0		Prof. P. F. Denza.
Genoa	30.06	763.6	30.26	768.5	55.4	13.0	79	sw.	3.1	1.4			4	s.		0.004	0.1		Prof. G. M. Garibaldi.
Mondovi	28.36	720.4	30.28	769.2	59.5	15.3	50	n.			2		0			0	0		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
ITALIAN.—Continued.																			
Pesaro	30.22	767.5	30.26	768.7	59.0	15.0	60	ne.	8.7	3.9	.....	.....	0	.....	.....	0	0	.....	Prof. Luigi Guidi.
Florence	29.98	761.5	30.24	768.0	62.6	17.0	57	w.	.....	.....	2	.....	0	.....	.....	0	0	.....	Prof. Costantino Pitter.
Leghorn	30.10	764.4	30.18	766.6	57.7	14.3	76	nw.	0	0	.....	.....	0	.....	.....	0	0	.....	Prof. P. Monte.
Rome	30.06	763.4	30.23	767.8	61.7	16.5	67	wsw.	5.6	2.5	.....	.....	0	.....	.....	0	0	.....	Prof. P. S. Ferrari.
Lecce	29.94	760.5	30.20	767.0	60.4	15.8	71	wnw.	6.3	2.8	.....	.....	0	.....	.....	0	0	.....	Prof. G. de Giorgi.
Cosenza	29.32	744.8	30.22	767.5	62.6	17.0	74	ese.	3.8	1.7	.....	.....	0	.....	.....	0	0	.....	Prof. D. Conti.
Cagliari	30.02	762.5	30.21	767.4	58.8	14.9	75	se.	.....	.....	2	.....	1	.....	.....	0	0	.....	Prof. A. Pacinotti.
Palermo	29.99	761.8	30.24	768.2	59.9	15.5	51	ene.	6.3	2.8	.....	.....	1	.....	.....	0	0	.....	Prof. G. Cicacciatore.
Syracuse	30.20	767.1	30.25	768.3	54.7	12.6	65	e.	6.3	2.8	.....	.....	0	.....	.....	0	0	.....	Prof. Vincenzo Guiliano.
Sub-series.																			
Naples, S. It	29.69	754.0	30.21	767.4	61.7	16.5	77	sw.	0	0	.....	.....	1	ne.	.....	0	0	.....	Prof. T. Brioschi.
Stelvio	22.38	568.4	.....	.....	33.1	0.6	37	se.	.....	.....	2	.....	0	.....	.....	0	0	clear	Prof. P. F. Denza.
Valdobbia	22.44	569.9	.....	.....	39.4	4.1	41	n.	.....	.....	1	.....	0	.....	.....	0	0	clear	Prof. P. F. Denza.
JAPANESE.																			
Aomori	30.17	766.3	30.21	767.3	23.0	— 5.0	72	w.	19.1	8.5	.....	.....	10 n	.....	.....	0.093	2.4	light snow	K. Ogawa.
Hakodate	30.11	764.8	30.12	765.0	25.0	— 3.9	55	wnw.	6.0	2.7	.....	.....	8	.....	.....	0	0	cloudy	
Hiroshima, I. M. Obs'y	30.34	770.6	30.35	770.9	38.6	3.7	62	nne.	10.3	4.6	.....	10 cs;ck	0	.....	.....	0	0	cloudy	K. Sasaki.
Kanazawa	30.25	768.3	30.36	771.1	32.7	0.4	92	se.	2.7	1.2	.....	0	9 ks;n	.....	.....	0.140	3.6	.....	S. Endo.
Kioto	30.12	765.0	30.30	769.6	36.7	2.6	73	nw.	4.1	1.8	.....	.....	10 s	.....	.....	0.018	0.5	cloudy	M. Tojima.
Kochi	30.29	769.3	30.32	770.1	42.1	5.6	60	wnw.	16.9	7.5	.....	ck	10 s	.....	.....	0	0	cloudy	
Nagasaki, I. M. Obs'y	30.11	764.8	30.33	770.4	42.1	5.6	67	ne.	4.9	2.2	.....	0	0	.....	.....	0	0	clear	S. Takehayashi.
Niigata	30.31	769.8	30.34	770.6	31.9	— 0.1	65	nnw.	10.4	4.6	.....	ck	10 n	.....	.....	0.095	2.4	light snow	
Nobiru	30.16	766.0	30.17	766.3	31.9	— 0.1	59	nw.	17.0	7.6	.....	0	4 s	.....	.....	0	0	fair	H. Midzushima.
Supporo	.....	.....	.....	.....	20.5	— 6.4	100	ne.	7.8	3.5	.....	.....	10	.....	.....	0.345	8.8	snowing	
Tokei Obs'y, Yeddo	30.05	763.3	30.13	765.3	39.9	4.4	50	n.	17.6	7.9	.....	.....	10 s	.....	.....	0	0	cloudy	The Staff.
Wakayama	30.26	768.6	30.32	770.1	39.1	3.9	62	nw.	12.5	5.6	.....	.....	10 cks	.....	.....	0	0	cloudy	Y. Kuwamuea.
MAURITIUS.																			
Mauritius Observatory	29.63	752.6	29.82	757.4	75.7	24.3	84	se.	19.0	8.5	.....	.....	10ks;n	.....	ese.	0.13	3 3	overcast	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.74	603.0	29.96	761.0	59.0	15.0	65	ene.	.....	.....	.....	0	0	.....	.....	0	0	clear	Vicente Fernandez.
Leon	24.46	621.4	30.22	767.6	54.1	12.2	75	nnw.	.....	.....	1	0	0	.....	.....	0	0	foggy	Prof. M. Leal.
Mazatlan	29.76	756.0	30.03	762.7	60.5	15.8	85	nw.	1.6	0.8	.....	0	0	.....	.....	0	0	hazy	F. Quijano, C. E.
Mexico, Central Obs'y	23.16	588.1	30.24	768.0	54.1	12.3	81	calm	0	0	.....	0	1	.....	.....	0	0	fine	M. Tena, M. D.
Morelia	24.22	615.2	30.36	771.2	55.8	13.2	84	sw.	.....	.....	2	0	0	.....	.....	0	0	.....	The Staff.
Pabellon, Aguascallentes	24.02	610.1	30.13	765.4	48.6	9.2	65	calm	0	0	.....	1	0	sw.	.....	0	0	clear	M. V. de Leon, M. E.
Puebla, Catholic Institute	23.46	595.8	30.33	770.3	47.3	8.5	82	calm	0	0	.....	0	2	.....	sw.	0	0	.....	Prof. P. Spina.
San Luis Potosi	24.28	616.5	30.23	767.8	56.6	14.8	52	e.	.....	.....	1	3	0	w.	.....	0	0	clear	G. Barroeta, M. D.
Vera Cruz	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Zacatecas	22.62	574.2	30.25	768.3	55.4	13.0	38	w.	6.0	2.7	.....	0	0	.....	.....	0	0	fine	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.54	775.7	30.54	775.7	51.8	11.0	.....	ne.	.....	.....	2	.....	.....	.....	.....	0.031	0.8	.....	
Groningen	30.43	773.0	30.49	774.4	47.8	8.8	.....	w.	.....	.....	1	.....	.....	.....	.....	0	0	.....	
Helder	30.50	774.8	30.50	774.8	45.5	7.5	.....	ssw.	.....	.....	1	.....	.....	.....	.....	0	0	.....	
Hellevoetsluis	30.51	775.0	30.51	775.0	53.2	11.8	80	w.	.....	.....	1	.....	.....	.....	.....	0.020	0.5	.....	
Utrecht	30.47	774.0	30.52	775.2	54.3	12.4	60	w.	.....	.....	1	.....	2	.....	.....	0.016	0.4	lightly cl'dy	H. van der Brink.
NORWEGIAN.																			
Bergen	30.02	762.4	30.08	764.0	45.3	7.4	83	s.	25	11	.....	.....	10	.....	.....	0.850	21.6	.....	
Bronо	29.42	747.2	29.46	748.2	37.8	3.2	83	sw.	18	8	.....	.....	8	.....	.....	0.295	7.5	raining	
Christiania	29.86	758.5	30.01	762.2	51.4	10.8	35	sw.	11	5	.....	.....	5	.....	.....	0	0	.....	
Glæsvær	29.34	745.1	29.36	745.7	35.6	2.0	.....	w.	.....	.....	6	.....	0	.....	.....	.....	.....	.....	
Lodingen	29.48	748.8	29.53	750.0	32.9	0.5	89	wsw.	.....	.....	4	.....	1	.....	.....	0.039	1.0	.....	
PORTUGUESE.																			
Angra, Azores	.....	.....	.....	.....	60.4	15.8	83	s.	4.9	2.2	.....	.....	4	.....	.....	0	0	.....	Dr. J. A. Sampaio.
Campo Major	29.28	743.7	30.26	768.6	74.8	23.8	34	ese.	3.1	1.4	.....	.....	0	.....	.....	0	0	.....	Dr. A. M. R. dos Santos.
Funchal, Maderia	30.28	769.1	30.37	771.3	64.4	18.0	60	sw.	3.8	1.7	.....	.....	0	.....	.....	0	0	.....	Capt. D. A. de Cunha.
Lisbon, Observatory	29.98	761.6	30.34	770.7	67.3	19.6	52	n.	3.8	1.7	.....	.....	0	.....	.....	0	0	.....	The Staff.
Ponta Delgada, Azores	30.40	772.2	30.47	774.0	65.1	18.4	71	ese.	3.8	1.7	.....	.....	4	.....	.....	0	0	.....	
Saint Paul de Loando	29.69	754.0	29.88	759.0	85.1	29.5	81	wnw.	0.7	0.3	.....	.....	4	s.	.....	0	0	.....	
Serra da Estrella	25.57	649.5	30.28	769.2	55.0	12.8	33	se.	7.4	3.3	.....	.....	0	.....	.....	0	0	.....	
RUSSIAN.																			
Akmolinski	28.26	717.7	29.35	745.5	31.8	— 0.1	94	e.	11	5	.....	.....	10 n	.....	.....	0	0	.....	Major K. Lasarew.
Archangel	29.49	749.1	29.51	749.6	20.5	— 6.4	82	wsw.	18	8	.....	1 cs	0	.....	.....	0	0	.....	Capt. Sselliwerstow.
Astrakhan	29.68	753.9	29.60	751.8	44.6	7.0	49	sw.	11	5	.....	.....	10 s;n	.....	.....	0.500	12.7	.....	Capt. Wisganow.
Barnaul	29.31	744.4	29.82	757.5	30.9	— 0.6	88	calm	0	0	.....	.....	10	.....	.....	0.272	6.9	.....	Meteorological Obs'y.
Dorpat	29.78	756.4	30.03	762.8	40.6	4.8	49	W.	7	3	.....	6 c	0	.....	.....	0	0	.....	Observatory.
Ekaterinburg	28.41	721.5	29.41	747.1	18.3	— 7.6	78	se.	7	3	.....	ck	9 s	.....	.....	0.031	0.8	.....	Meteorological Obs'y.
Kasan	29.14	740.1	29.43	747.4	15.6	— 9.1	70	n.	7	3	.....	.....	10	.....	.....	0.016	0.4	.....	Observatory.
Kertch	29.88	758.9	29.90	759.4	44.8	7.1	69	nnw.	45	20	.....	0	0	.....	.....	0.118	3.0	.....	Lagorio & Sastyres.
Kieff	29.32	744.6	29.97	761.1	43.5	6.4	54	nw.	13	6	.....	c	6 ks	.....	.....	0.087	2.2	solar corona	Observatory.
Lugan	29.56	750.8	29.77	756.1	38.5	3.6	62	nw.	22	10	.....	.....	7	.....	.....	0.024	0.6	.....	Meteorological Obs'y
Moscow	29.08	738.6	29.57	751.1	31.1	— 0.5	70	nne.	7.8	3.5	.....	0	7 ks	.....	.....	0	0	.....	Meteorological Obs'y.
Nikolaiev	30.01	762 2	30.08	764.0	48.6	9.2	68	n.	13	6	.....	.....	9 kn	.....	.....	0	0	.....	Capt. Kurdakow.
Nikolaievsk, on the Amoor	30.16	766.0	30.24	768.2	—13.7	—25.4	84	calm	0	0	.....	.....	0	.....	.....	0	0	.....	Lieut. Iwanow.
Pekin, China	30.35	771.0	30.50	774.6	34.5	1.4	54	se.	11	5	.....	0	0	.....	.....	0	0	.....	Physical Observatory
St. Petersburg	29.89	759.1	29.90	759.5	32.2	0.1	71	wnw.	13	6	.....	cs	2 n	.....	.....	0	0	.....	Central Physical Obs
Tashkend, Laboratory	28.26	717.7	29.83	757.6	52.5	11.4	56	n.	2	1	.....	.....	10	.....	.....	0	0	.....	Teich, A. M.
Tiflis	28.39	721.2	29.84	757.8	45.1	7.3	59	nw.	31	14	.....	0	8 k	.....	.....	0	0	.....	Physical Observatory
Vladivostok	30.40	773.7	30.53	775.4	2.7	—16.3	70	n.	2	1	.....	0	0	.....	.....	0	0	.....	
Warsaw	29.90	759.4	30.34	770.5	44.4	6.9	57	wsw.	13	6	.....	0	8 ks	.....	.....	.....	.....	.....	Astronomical Obs'y
Wilna	29.72	754.9	30.15	765.9	43.2	6.2	58	nnw.	9	4	.....	.....	6	.....	.....	0	0	.....	Berg, Assistant.
Yeniseisk	29.39	746.6	29.69	754.2	27.0	— 2.8	76	w.	9	4	.....	.....	6	.....	.....	0.075	1.9	snowing	M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	30.17	766.3	30.28	769.0	62.6	17	70	se.	4.0	1.8	.....	.....	0	.....	.....	0	0	clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.45	773.4	30.51	774.9	54.7	12.6	80	nw.	1.1	0.5	.....	10	0	.....	.....	0.016	0.4	covered	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.41	696.2	30.46	773.7	49.6	9 8	67	ne.	4.0	1.8	.....	0	0	.....	.....	0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	28.08	713.2	30.27	768.9	68.5	20.3	33	e.	5.8	2.6	.....	0	0	.....	.....	0	0	clear	The Staff.
Murcia, Met. Obs'y	30.15	765.7	30.30	769.7	70.0	21.1	48	ne.	1.8	0.8	.....	0	0	.....	.....	0	0	clear	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.44	747.7	30.34	770.5	61.2	16.2	62	ne.	10.5	4.7	.....	.....	2	.....	.....	0.004	0.1	light clouds	R. Gil Vallanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I	30.08	763.9	30.14	765.6	69.6	20.9	84	ese.	1.3	0.6	.....	0	0	.....	.....	0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.95	760.6	30.00	762.1	82.0	27.8	69	se.	6.6	3.0	.....	0	1 ks	.....	.....	0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.20	767.0	30.30	769.5	69.6	20.9	35	e.	2.6	1.2	.....	0	3	.....	se.	0	0	.....	Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	30.07	763.8	30.16	766.1	74.5	23.6	87	e.	2.7	1.2	.....	.....	10 ku	.....	e.	0	0	overcast	Manuel Maeu.
Tuguegarao, Philippine Id's	29.92	760.0	30.05	763.3	74.0	23.3	82	nnw.	11.9	5.3	.....	0	4 ks	.....	nne.	0	0	fair	Jose L. Yrastorza.
SWEDISH.																			
Haparanda	29.56	750.7	29.60	751.7	29.5	— 1.4	84	sw.	.....	.....	2	.....	0	.....	.....	0.091	2.3	.....	
Umea	29.66	753.4	29.71	754.7	46.0	7.8	59	nw.	.....	.....	2	.....	6	.....	.....	0	0	.....	
Hernosand	29.75	755.6	29.80	756.9	46.2	7.9	42	wsw.	.....	.....	4	.....	3	.....	.....	0	0	.....	
Stockholm	29.83	757.6	30.00	762.1	43.5	6.4	62	w.	.....	.....	2	.....	1	.....	.....	0	0	.....	
Wisby	30.00	761.9	30.06	763.4	40.6	4.8	78	w.	.....	.....	2	.....	0	.....	.....	0	0	.....	
Sub-series.																			
Upsala	29.86	758.5	29.95	760.7	45.0	7.2	57	w.	7.8	3.5	.....	.....	1	.....	.....	0	0	.....	S. G. Fineman.
SWISS.																			
Geneva	28.93	734.9	30.35	771.0	55.4	13.0	47	n.	.....	.....	2	.....	.....	.....	.....	0	0	clear	The Observatory.

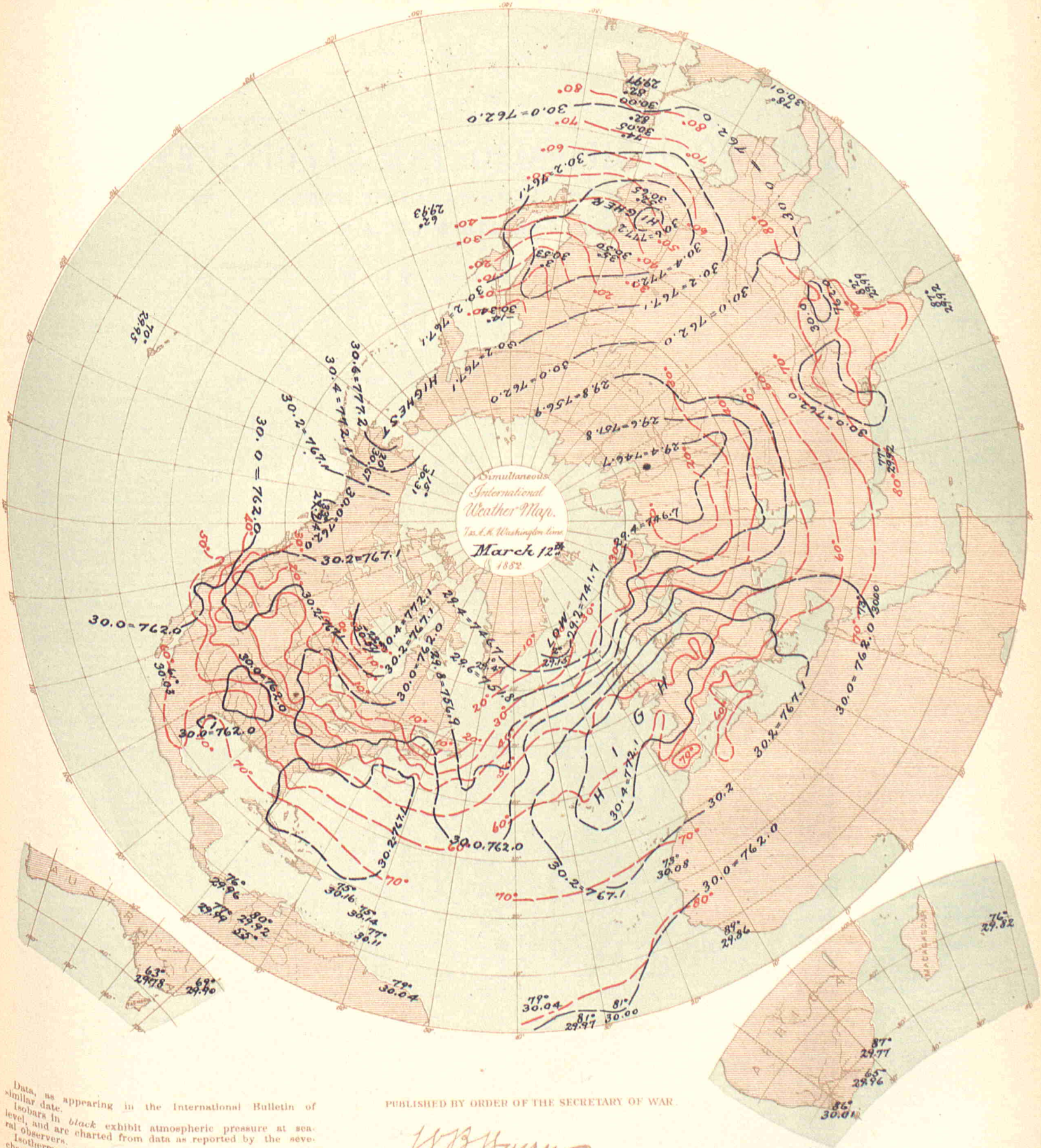
STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
TURKISH.																			
Constantinople	.....	.....	30.21	767.3	57.7	14.3	55	n.	17	7.5	.....	.....	0	.....	.....	0	0	.....	The Observatory.
Valona	.....	.....	30.24	768.1	61.0	16.1	.....	w.	.....	.....	1	.....	0	.....	.....	0	0	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	30.13	765.4	57.0	13.9	68	n.	.....	.....	1	0	0	.....	.....	0	0	....	Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	29.95	760.7	30.04	763.0	40	4.4	82	s.	8	3.6	.....	.....	10 n	.....	.....	inap.	inap.	light snow	J. O. Barnes.
Alpena, Michigan	29.13	739.9	29.83	757.7	25	— 3.9	88	sw.	6	2.7	.....	.....	10 n	.....	.....	0.13	3.3	light snow	Jas. J. Fitzgerald.
Atlanta, Georgia	28.96	735.6	30.17	766.3	50.2	10.1	66	e.	10	4.5	.....	.....	10 s	.....	calm	0	0	cloudy	H. Hall.
Atlantic City, New Jersey	30.06	763.5	30.07	763.8	42.2	5.7	100	s.	9	4.0	.....	.....	10 n	.....	.....	0.04	1.0	light rain	Jas. M. Watson.
Augusta, Georgia	30.05	763.3	30.25	768.3	50.1	10.1	72	s.	1	0.4	.....	.....	10s;sk	.....	.....	0	0	cloudy	John Healy.
Baltimore, Maryland	30.02	762.5	30.08	764.0	42	5.6	83	se.	2	0.9	.....	.....	10s;fg	.....	w.	inap.	inap.	cloudy	Robert Seyboth.
Barnegat, New Jersey	30.05	763.3	30.07	763.8	41.6	5.3	92	s.	19	8.5	.....	.....	10 n	.....	sw.	0.01	0.3	light rain	Chas. F. Merritt.
Bismarck, Dakota	28.12	714.2	30.04	763.0	12	—11.1	64	nw.	8	3.6	.....	.....	10 s	.....	nw.	0	0	cloudy	Cyrus Cramer.
Boise City, Idaho	27.34	694.4	30.26	768.6	27	— 2.8	84	calm	0	0	.....	0	0	.....	.....	0.06	1.5	clear	B. E. Light.
Boston, Massachusetts	29.94	760.5	30.10	764.5	34.0	1.1	94	sw.	10	4.5	.....	.....	10 n	.....	.....	inap.	inap.	light snow	O. B. Cole.
Brownsville, Texas	29.94	760.5	29.98	761.5	70	21.1	93	s.	2	0.9	.....	0	0	.....	.....	0.01	0.3	clear	J. C. Galloway.
Buffalo, New York	29.10	739.1	29.89	759.2	32	0.0	94	sw.	3	1.3	.....	.....	10 n	.....	.....	0.11	2.8	light snow	Wm Finn.
Burlington, Vermont	29.64	752.8	29.95	760.7	31.5	— 0.3	76	s.	5	2.2	.....	5 cs	0	w.	.....	0	0	fair	G. C. Schaeffer.
Cairo, Illinois	29.60	751.8	30.02	762.5	52.7	11.5	71	s.	1	0.4	.....	.....	10 s	.....	s.	0	0	cloudy	W. H. Ray.
Campo, California	27.39	695.7	30.00	762.0	31.6	— 0.2	88	s.	3	1.3	.....	.....	9 ks	.....	sw.	0	0	cloudy	W. H. Clendenon.
Camp Thomas, Arizona	27.23	691.6	30.01	762.2	49	9.4	58	calm	.....	.....	0	3 cs	2 ks	sw.	sw.	0	0	fair	J. T. Fitzgerald.
Cape Henry, Virginia	30.14	765.5	30.16	766.1	47	8.3	68	s.	13	5.8	.....	.....	10 s	.....	.....	0	0	cloudy	J. E. Lanouette.
Cape May, New Jersey	30.02	762.5	30.05	763.3	48	8.9	77	s.	11	4.9	.....	.....	10 s	.....	.....	0	0	cloudy	W. Bolten.
Castroville, Texas	29.18	741.2	30.01	762.2	65	18.3	93	s.	3	1.3	.....	.....	10 s	.....	.....	0.03	0.8	threatening	T. Jones.
Cedar Keys, Florida	30.18	766.6	30.20	767.1	62	16.7	84	e.	6	2.7	.....	2 cs	0	.....	.....	0	0	clear	F. W. Mixer.
Champaign, Illinois	29.12	739.6	29.98	761.5	34.8	1.6	79	nw.	12	5.4	.....	.....	10 s	.....	nw.	0.01	0.3	cloudy	L. A. Welsh.
Charleston, S. Carolina	30.18	766.6	30.24	768.1	53	11.7	72	ne.	4	1.8	.....	0	9 s	.....	sw.	0	0	cloudy	J. H. Smith.
Charlotte, N. Carolina	29 24	742.7	30.12	765.0	47.0	8.3	68	s.	5	2.2	.....	.....	10 s	.....	.....	0	0	cloudy	D. O. Donoghue.
Chattanooga, Tennessee	29.28	743.7	30.13	765.3	49.0	9.4	71	ne.	3	1.3	.....	10 ck	sk.	sw.	.....	0	0	cloudy	B. L. Goulding.
Cheyenne, Wyoming	23.93	607.8	30.11	764.8	28.2	— 2.1	70	w.	16	7.2	.....	0	0	.....	.....	0	0	clear	E. McGovern.
Chicago, Illinois	29.19	741.4	29.93	760.2	30.9	— 0.6	88	nw.	6	2.7	.....	.....	10 s	.....	.....	0.12	3.0	cloudy	J. Mitchell.
Chincoteague, Virginia	30.06	763.5	30.08	764.0	46	7.8	47	sw.	14	6.3	.....	.....	10 s	.....	sw.	0	0	cloudy	F. C. Pratz.
Cincinnati, Ohio	29.23	742.4	29.92	760.0	49.1	9.5	56	sw.	8	3.6	.....	.....	10 s	.....	sw.	0	0	cloudy	R. B. Watkins.
Cleveland, Ohio	29.09	738.9	29.87	758.7	38	3.3	87	s.	9	4.0	.....	.....	10 n	.....	sw.	0.10	2.5	light rain	J. B. Newlin.
Coleman City, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	L. Dorman.
Columbus, Ohio	28.98	736.1	29.87	758.7	41	5.0	82	sw.	8	3.6	.....	.....	10 ks	.....	w.	0.10	2.5	cloudy	D. Cuthbertson.
Concho, Texas	28.06	712.7	30.03	762.7	59	15.0	78	w.	8	3.6	.....	.....	10 ks	.....	w.	0	0	cloudy	W. W. McConihe.
Davenport, Iowa	29.33	745.0	30.02	762.5	30	— 1.1	68	nw.	7	3.1	.....	.....	10 s	.....	nw.	inap.	inap.	cloudy	R. R. Martin.
Dayton, Washington T'y	28.45	722.6	30.26	768.6	26.5	— 3.1	72	e.	4	1.8	.....	0	0	.....	.....	0	0	clear	H. Clifford.
Deadwood, Dakota	25.23	640.8	30.07	763.8	25.5	— 3.6	67	sw	8	3.6	.....	7 c	0	w.	.....	0	0	fair	G. W. Scott.
Decatur, Texas	.....	.....	.....	.....	61	16.1	60	w.	14	6.3	.....	.....	10 s	.....	.....	0	0	cloudy	D. J. Carr.
Delaware Breakwater, Del.	30.06	763 5	30.08	764.0	43	6.1	93	s.	4	1.8	.....	.....	10 s	.....	sw.	0	0	cloudy	A. Schneider.
Denison, Texas	29.11	739.4	29.94	760.5	60.0	15.6	93	sw.	10	4.5	.....	.....	10 s	.....	.....	0	0	cloudy	J. McGlone.
Denver, Colorado	24.67	626.6	30.11	764.8	30.5	— 0.8	50	se.	2	0.9	.....	0	0	.....	.....	0	0	clear	F. M. Neal.
Des Moines, Iowa	29.12	739.6	30.08	764.0	24	— 4.4	73	n.	3	1.3	.....	0	3 s	.....	n.	inap.	inap.	clear	F. W. Conrad.
Detroit, Michigan	29.08	738.6	29.83	757.7	40.0	4.4	82	se.	3	1.3	.....	.....	10 n	.....	calm	0.15	3.8	light snow	O. F. R. Wappenhans.
Dodge City, Kansas	27.35	694.7	30.08	764.0	33.6	0.9	90	ne.	15	6.7	.....	.....	10 s	.....	.....	0	0	cloudy	E. A. Thomas.
Dubuque, Iowa	29.23	742.4	29.98	761.5	28.2	— 2.1	70	w.	8	3.6	.....	.....	10 ks	.....	w.	0.18	4.6	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.08	738.6	29.82	757.4	23	— 5.0	88	sw.	4	1.8	.....	.....	10 s	.....	calm	0.01	0.3	cloudy	N. B. Conger.
Eagle Pass, Texas	29.22	742.2	30.04	763.0	60.0	15.6	93	se.	2	0.9	.....	.....	10 s	.....	se.	0.04	1.0	cloudy	F. Belford.
Eagle Rock, Idaho	25.41	645.4	30.28	769.1	2	—16.7	76	calm	0	0	.....	.....	0	.....	.....	0.01	0.3	clear	J. M. Clifford.
Eastport, Maine	29.99	761.7	30.06	763.5	27.5	— 2.5	77	sw.	3	1.3	.....	5 k	4 s	sw.	.....	0	0	cloudy	J. H. Melton.
El Paso, Texas	26.27	667.2	30.07	763.8	51	10.6	25	n.	6	2.7	.....	3 c	0	calm	.....	0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.10	739.1	29.87	758.7	38	3.3	89	s.	9	4.0	.....	.....	10 s	.....	.....	0.04	1.0	cloudy	R. H. Paxton.
Escanaba, Michigan	29.14	740.1	29.85	758.2	17	— 8.3	67	w.	6	2.7	.....	0	0	.....	.....	0	0	clear	C. Dill.
Florence, Arizona	28.52	724.4	30.09	764.3	43.9	6.6	60	e.	2	0.9	.....	0	1 s	.....	sw.	0	0	clear	R. R. Herman.
Fort Apache, Arizona	25.10	637.5	30.12	765.0	39	3.9	82	se.	2	0.9	.....	.....	10 s	.....	calm	0	0	cloudy	W. C. Barnes.
Fort Assinnaboine, Montana	27.04	686.8	30.05	763.3	28	— 2.2	59	sw.	18	8.0	.....	.....	10 k	.....	sw.	0	0	cloudy	B. O. Lenoir.
Fort Bennett, Dakota	28.36	720.3	30.06	763.5	20	— 6.7	73	nw.	1	0.4	.....	0	0	.....	.....	0	0	clear	T. Gibson.
Fort Benton, Montana	27.09	688.1	30.07	763.8	28	— 2.2	67	sw.	20	8.9	.....	0	0	.....	.....	0	0	clear	S. Wheaton.
Fort Buford, Dakota	27.94	709.7	30.08	764.0	18	— 7.8	70	ne.	3	1.3	.....	.....	10 s	.....	calm	0	0	cloudy	A. H. Bell.
Fort Custer, Montana	26.77	679.9	30.10	764.5	22	— 5.6	73	se.	2	0.9	.....	.....	10 s	.....	calm	0	0	cloudy	V. Verge.
Fort Davis, Texas	25.15	638.8	30.03	762.7	43	6.1	71	s.	2	0.9	.....	6 cs	c	s.	.....	0	0	fair	J. Williams.
Fort Elliott, Texas	27.11	688.6	29.94	760.5	40	4.4	50	nw.	14	6.3	.....	8 c	0	nw.	.....	0	0	cloudy	W. J. Cundall.
Fort Gibson, Indian T'y	29.31	744.5	29.90	759.4	59.0	15.0	81	s.	8	3.6	.....	.....	10 s	.....	s.	0	0	cloudy	J. B. Campbell.
Fort Grant, Arizona	25.26	641.6	30.09	764.3	44	6.7	58	sw.	4	1.8	.....	0	7 s	.....	.....	0	0	fair	T. J. Macgowan.
Fort Griffin, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	G. H. Hayne.
Fort Keogh, Montana	27.37	695.2	30.02	762.5	27	— 2.8	67	sw.	6	2.7	.....	10 cs	0	.....	.....	0	0	cloudy	W. B. Stockman.
Fort Macon, North Carolina	30.22	767.6	30.23	767.8	54	12.2	74	sw.	8	3.6	.....	.....	10 s	.....	sw.	0	0	cloudy	L. Leonardy.
Fort McKavett, Texas	27.80	706.1	30.12	765.0	55.7	13.2	69	w.	12	5.4	.....	6 k	0	.....	.....	0	0	fair	J. E. Thatcher.
Fort Missoula, Montana	26.92	683.8	30.30	769.6	7	—13.9	80	se.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. H. Jones.
Fort St. Michels, Alaska	30.63	778.0	30.67	779.0	20	— 6.7	85	s.	25	11.2	.....	.....	10 s	.....	.....	0	0	cloudy	A. P. Leavitt.
Fort Shaw, Montana	26.27	667.2	30.07	763.8	27	— 2.8	67	sw.	17	7.6	.....	3 cs	0	.....	.....	0	0	clear	A. L. Mathews.
Fort Sill, Indian Territory	28.62	726.9	29.91	759.7	52	11.1	96	s.	6	2.7	.....	9 cs	0	w.	.....	0	0	cloudy	T. Cleary.
Fort Stevenson, Dakota	28.10	713.7	30.08	764.0	15	— 9.4	83	sw.	4	1.8	.....	.....	10 s	.....	calm	inap.	inap.	cloudy	W. Burrows.
Fort Verde, Arizona	.....	.....	.....	.....	33.6	0.9	54	sw.	.....	....	1	0	0	.....	.....	0	0	clear	D. Brooks.
Fort Washakie, Wyoming	24.40	619.7	.....	.....	19.4	— 7.0	68	nw.	4	1.8	.....	0	0	.....	.....	0	0	clear	T. M. Ambler.
Fredericksburg, Texas	28.24	717.3	30.00	762.0	63	17.2	93	sw.	8	3.6	.....	.....	10 ks	.....	sw.	0	0	cloudy	H. S. Miles.
Galveston, Texas	30.01	762.2	30.05	763.3	68	20.0	100	s.	12	5.4	.....	9 cs	fg.	s.	.....	0.11	2.8	cloudy	E. O'C. MacInerney.
Grand Haven, Michigan	29.18	741.2	29.88	758.9	31.5	— 0.3	88	nw.	10	4.5	.....	.....	10 s	.....	nw.	0.49	12.4	cloudy	W. A. Reid.
Hatteras, North Carolina	30.19	766.8	30.21	767.3	51	10.6	86	n.	8	3.6	.....	5 k	0	.....	.....	0	0	fair	R. M. Crawford.
Helena, Montana	25.80	655.3	30.17	766.3	29	— 1.7	59	sw.	12	5.4	.....	4 k	0	sw.	.....	0	0	fair	N. C. Smith.
Henrietta, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. W. Byram.
Huron, Dakota	28.60	726.4	30.08	764.0	17	— 8.3	67	w.	10	4.5	.....	5 k	0	w.	.....	inap.	inap.	fair	S. W. Glenn.
Indianapolis, Indiana	29.06	738.1	29.90	759.4	44.5	6.9	67	w.	10	4.5	.....	.....	10 s	.....	w.	inap.	inap.	cloudy	O. Schutze
Indianola, Texas	29.98	761.5	30.01	762.2	69.4	20.8	100	se.	9	4.0	.....	.....	10 k	.....	s.	0.01	0.3	cloudy	I. A. Reed.
Jacksboro, Texas	28.77	730.7	29.98	761.5	60	15.6	87	sw.	8	3.6	.....	.....	10 s	.....	w.	0	0	cloudy	J. P. Sherry.
Jacksonville, Florida	30.18	766.6	30.23	767.8	51	10.6	93	ne.	6	2.7	.....	4 cs	fg.	w.	.....	0	0	fair	J. W. Smith.
Keokuk, Iowa	29.34	745.2	30.03	762.7	29.5	— 1.4	77	nw.	8	3.6	.....	.....	10 s	.....	w.	inap.	inap.	cloudy	F. Z. Gosewisch
Key West, Florida	30.13	765.3	30.15	765.8	72.0	22.2	84	e.	3	1.3	.....	0	3 ks	.....	e.	0.01	0.3	clear	L. M. Melbourne.
Kittyhawk, North Carolina	30.17	766.3	30.19	766.8	48	8.9	86	sw.	5	2.2	.....	.....	10 s	.....	.....	0.30	7.6	cloudy	E. A. Beals.
Knoxville, Tennessee	29.06	738.1	30.12	765.0	47.8	8.8	60	w.	2	0.9	.....	10 cs	sk.	w.	.....	0	0	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.13	739.9	29.95	760.7	28	— 2.2	77	sw.	8	3.6	.....	.....	10 s	.....	.....	0.02	0.5	cloudy	S. C. Emery.
La Mesilla, New Mexico	26.12	663.4	30.07	763.8	46.8	8.2	40	calm	0	0	.....	3 c	7 s	w.	.....	0	0	cloudy	N. D. Lane.
Leavenworth, Kansas	29.15	740.4	30.09	764.3	32	0.0	78	n.	6	2.7	.....	.....	10 s	.....	w.	inap.	inap.	cloudy	A. W. Browne.
Lewiston, Idaho	29.46	748.3	30.32	770.1	26.7	— 2.9	57	e.	2	0.9	.....	0	0	.....	.....	0	0	clear	W. Blake.
Little Rock, Arkansas	29.64	752.8	29.97	761.2	57	13.9	86	sw.	5	2.2	.....	.....	10 s	.....	sw.	0.01	0.3	cloudy	M. F. Burrows.
Los Angeles, California	29.64	752.8	30.04	763.0	42.1	5.6	74	nw.	2	0.9	.....	0	0	.....	.....	0	0	clear	E. F. Kubel.
Louisville, Kentucky	29.33	745.0	29.92	760.0	52	11.1	52	s.	10	4.5	.....	0	5 s	.....	.....	0	0	fair	H. C. Smith.
Lynchburg, Virginia	29.35	745.5	30.07	763.8	43.0	6.1	64	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	T. H. Breen.
Madison, Wisconsin	28 89	733.8	29.96	761.0	26	— 3.3	76	w.	7	3.1	.....	.....	10 s	.....	w.	0.06	1.5	cloudy	C. A. Shaw.
Marquette, Michigan	29.06	738.1	29.82	757.4	18	— 7.8	67	w.	8	3.6	.....	0	0	.....	.....	0	0	clear	I. Gilligan
Mason, Texas	28.33	719.6	30.02	762.5	60	15.6	86	s.	2	0.9	.....	.....	10 s	.....	s.	0	0	cloudy	A. M. Wilson.
Memphis, Tennessee	29.67	753.6	30.02	762.5	52	11.1	100	calm	0	0	.....	.....	10 n	.....	.....	0.22	5.6	light rain	D. T. Flannery.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–01	0–10	0–10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Milwaukee, Wisconsin	29.14	740.1	29.93	760.2	27	— 2.8	88	w.	5	2.2	.....	.....	10 s	.....	.....	0.10	2.5	cloudy	W. Line.
Mobile, Alabama	30.08	764.0	30.12	765.0	60	15.6	87	calm	0	0	.....	0	9 s	.....	sw.	inap.	inap.	cloudy	J. D. Paxton.
Montgomery, Alabama	29.88	758.9	30.12	765.0	54.6	12.6	75	se.	6	2.7	.....	.....	10 s	.....	nw	inap.	inap.	threatening.	J. B. McLaughlin.
Moorhead, Minnesota	28.89	733.8	29.97	761.2	15	— 9.4	83	nw.	12	5.4	.....	.....	10 s	.....	.....	0	0	cloudy	H. Bessant.
Morgantown, W. Virginia	28.90	734.0	29.96	761.0	47.5	8.6	62	sw.	8	3.6	.....	.....	10 s	.....	sw.	inap.	inap.	cloudy	J. Sprigg, jr.
Mt. Washington, N. H.	23.47	596.1	29.99	761.7	8.0	—13.3	83	nw.	34	15.2	.....	.....	10n;fg	.....	nw.	0.52	13.2	light snow	J. G. Linsley.
Nashville, Tennessee	29.48	748.8	30.04	763.0	55.4	13.0	52	sw.	1	0.4	.....	10 cs	0	w.	.....	0	0	cloudy	L. A. Jesunofsky.
New Haven, Connecticut	29.99	761.7	30.11	764.8	34	1.1	100	calm	0	0	.....	.....	10 s	.....	.....	0.01	0.3	cloudy	J. H. Sherman.
New London, Connecticut	30.10	764.5	30.15	765.8	36	2.2	100	sw.	9	4.0	.....	.....	10 n	.....	sw.	inap.	inap.	light snow	J. G. Lynch.
New Orleans, Louisiana	30.04	763.0	30.10	764.5	65.5	18.6	86	s.	6	2.7	.....	4 cs	5 s	w.	s.	0	0	cloudy	A. J. Armstrong.
Newport, Rhode Island	30.09	764.3	30.14	765.5	37.0	2.8	85	sw.	16	7.2	.....	.....	10 n	.....	sw.	inap.	inap.	light rain	W. McGillivray.
New River, N. Carolina	.....	.....	.....	.....	53	11.7	72	s.	.....	.....	1	.....	10 s	.....	.....	0	0	cloudy	C. C. Corbin.
New Shoreham, Rhode I'd.	30.12	765.0	30.15	765.8	38.0	3.3	82	w.	16	7.2	.....	.....	10 s	.....	w.	0	0	cloudy	W. Davis.
New York, New York	29.92	760.0	30.10	764.5	38.2	3.4	82	s.	4	1.8	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	E. B. Garriott.
Norfolk, Virginia	30.13	765.3	30.16	766.1	49	9.4	50	sw.	7	3.1	.....	.....	10 s	.....	.....	0	0	cloudy	J. T. Elker.
North Platte, Nebraska	27.07	687.6	30.13	765.3	23.1	— 4.9	80	nw.	4	1.8	.....	0	0	.....	.....	0	0	clear	E. F. Brady.
Olympia, Washington T'y	30.16	766.1	30.20	767.1	28.0	— 2.2	88	n.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. Dascomb.
Omaha, Nebraska	28.87	733.3	30.12	765.0	28.0	— 2.2	77	nw.	2	0.9	.....	3 c	0	.....	.....	inap.	inap.	clear	A. Pollak.
Ooglaamie, Pt. Barrow, Alas.	30.28	769.1	30.31	769.9	—15.0	—26.1	78	s.	14	6.3	.....	.....	10 s	.....	.....	0.03	0.8	cloudy	P. H. Ray.
Oswego, New York	29.58	751.3	29.92	760.0	35.3	1.8	80	s.	3	1.3	.....	.....	10 n	.....	.....	0.07	1.8	light snow	S. W. Beall.
Palestine, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	L. M. Pindell.
Pensacola, Florida	30.10	764.5	30.13	765.3	58.2	14.6	90	e.	5	2.2	.....	0	4 s	.....	sw.	0	0	fair	M. McGauran.
Philadelphia, Pa.	29.97	761.2	30.07	763.8	43	6.1	74	s.	3	1.3	.....	.....	10 s	.....	.....	0	0	cloudy	T. F. Townsend.
Pike's Peak, Colorado	17.53	445.3	30.12	765.0	3.5	—15.8	83	sw.	40	17.9	.....	0	1 s	.....	.....	0	0	clear	L. M. Dey.
Ploche, Nevada	24.11	612.4	30.25	768.3	26	— 3.3	58	nw.	7	3.1	.....	0	0	.....	.....	0	0	clear	C. K. Kitchel.
Pittsburg, Pennsylvania	29.09	738.9	29.94	760.5	38.0	3.3	89	s.	7	3.1	.....	.....	10 ks	.....	sw.	0.05	1.3	threatening	J. H. Bryce.
Port Eads, Louisiana	30.11	764.8	30.12	765.0	65.2	18.4	92	se.	6	2.7	.....	0	3 s;hz	.....	se.	0	0	clear	H. G. Christian.
Port Huron, Michigan	29.09	738.9	29.81	757.2	30.0	— 1.1	100	calm	0	0	.....	.....	10 n	.....	.....	0.24	6.1	light snow	W. O. Bailey.
Portland, Maine	29.98	761.5	30.03	762.7	34.0	1.1	72	sw.	7	3.1	.....	4 c	5 s	w.	sw.	0	0	cloudy	D. C. Murphy.
Portland, Oregon	30.11	764.8	30.17	766.3	33.0	0.6	88	n.	5	2.2	.....	2 c	0	.....	.....	0	0	clear	M. L. Hearne.
Portsmouth, N. Carolina	.....	.....	.....	.....	55	12.8	74	s.	10	4.5	.....	10 k	0	sw.	.....	0	0	cloudy	F. P. Chaffee.
Prescott, Arizona	24.77	629.1	30.11	764.8	28	— 2.2	70	s.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. Mc N. Wright.
Provincetown, Mass.	30.09	764.3	30.12	765.0	36	2.2	79	sw.	10	4.5	.....	.....	10 s	.....	.....	0	0	cloudy	P. T. Jenkins.
Punta Rassa, Florida	30.16	766.1	30.17	766.3	64.5	18.1	78	ne.	6	2.7	.....	0	0	.....	.....	0	0	clear	W. J. Evans.
Red Bluff, California	29.61	752.1	29.99	761.7	44.3	6.8	65	n.	12	5.4	.....	1 c	10 s	.....	.....	0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.80	756.9	30.04	763.0	64	17.8	90	calm	c	0	.....	.....	10 s	.....	calm	0.03	0.8	cloudy	W. H. Taylor.
Rochester, New York	29.21	741.9	29.91	759.7	31	— 0.6	88	calm	0	0	.....	.....	10 n	.....	.....	0.05	1.3	light snow	A. T. Sherwood.
Roseburg, Oregon	29.55	750.6	30.11	764.8	30	— 1.1	82	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. J. Nanry.
Sacramento, California	29.83	757.7	29.91	759.7	46.8	8.2	68	n.	10	4.5	.....	.....	9 s	.....	sw.	0.02	0.5	cloudy	J. A. Barwick.
St. Louis, Missouri	29.43	747.5	30.06	763.5	38.0	3.3	82	nw.	8	3.6	.....	.....	10 s	.....	.....	0	0	cloudy	J. H. Webber.
St. Paul, Minnesota	28.99	736.3	29.91	759.7	20.0	— 6.7	84	sw.	4	1.8	.....	0	0	.....	.....	0.03	0.8	clear	O. S. M. Cone.
St. Vincent, Minnesota	29.07	738.4	30.01	762.2	4	—15.6	100	nw.	13	5.8	.....	.....	10 s	.....	calm	0	0	cloudy	G. Kingsbury.
Salt Lake City, Utah	25.75	654.0	30.27	768.8	29	— 1.7	59	calm	0	0	.....	8 k	0	w.	.....	0	0	cloudy	J. Craig.
San Antonio, Texas	29.30	744.2	30.01	762.2	64.6	18.1	90	s.	3	1.3	.....	.....	10 s	.....	s.	0.30	7.6	cloudy	E. Lane.
San Diego, California	29.89	759.2	29.97	761.2	47.3	8.5	76	e.	6	2.7	.....	10 k	0	sw.	.....	0	0	cloudy	A. C. Dobbins.
Sandusky, Ohio	29.11	739.4	29.83	757.7	40	4 4	82	sw.	10	4.5	.....	.....	10 s	.....	.....	0.14	3.6	cloudy	M. H. Perry.
Sandy Hook, New Jersey	30.05	763.3	30.09	764.3	41.0	5.0	82	sw.	6	2.7	.....	.....	10 n	.....	sw.	inap.	inap.	light rain	B. A. Blundon.
San Francisco, California	29.80	756.9	29.87	758.7	51	10.6	59	se.	8	3.6	.....	.....	10 s	.....	se.	0.01	0.3	cloudy	N. Gorom.
Santa Fé, New Mexico	23.18	588.8	30.16	766.1	36	2.2	46	n.	5	2.2	.....	4 c	0	.....	.....	0	0	fair	H. N. Jones.
Savannah, Georgia	30.15	765.8	30.24	768.1	52	11.1	80	n.	4	1.8	.....	10 ck	0	n.	.....	0	0	cloudy	H. M. Ford.
Shreveport, Louisiana	29.74	755.4	29.99	761.7	60	15.6	100	s.	5	2.2	.....	.....	10 n	.....	.....	0.40	10.2	light rain	E. N. Meekins.
Silver City, New Mexico	24.28	616.7	30.06	763.5	38	3.3	51	w.	4	1.8	.....	7 k	0	w.	.....	0	0	fair	J. B. Wallace.
Sitka, Alaska	29.87	758.7	29.94	760.5	33	0.6	88	nw.	7	3.1	.....	.....	10 n	.....	nw.	0.34	8.6	light snow	J. J. McLean.
Smithville, North Carolina	30.19	766.8	30.23	767.8	50	10.0	86	s.	3	1.3	.....	.....	10 s	.....	.....	0	0	cloudy	J. C. Rickli.
Spokane Falls, Wash. Ter.	28.18	715.8	30.31	769.9	18	— 7.8	80	w.	2	0.9	.....	0	0	.....	.....	0	0	clear	D. Moore.
Springfield, Illinois	29.31	744.5	30.03	762.7	36.5	2.5	65	nw.	11	4.9	.....	.....	10 s	.....	n.	0.01	0.3	cloudy	T. B. Jennings.
Springfield, Massachusetts	29.96	761.0	30.10	764.5	34.3	1.3	85	s.	5	2.2	.....	.....	10 n	.....	.....	inap.	inap.	light snow	T. S. Outram.
Springfield, Mo.	28.56	725.4	30.12	765.0	42	5.6	73	ne.	11	4.9	.....	.....	10 ks	.....	w.	0	0	cloudy	J. B. Marbury.
Stockton, Texas	27.00	685.8	30.08	764.0	43.0	6.1	53	sw.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. O'Dowd.
Thatcher's Island, Mass.	29.91	759.7	29.97	761.2	34.5	1.4	78	sw.	16	7.2	.....	5 k	0	sw.	.....	0	0	fair	G. Liebmann.
Toledo, Ohio	29.10	739.1	29.83	757.7	39	3.9	86	sw.	4	1.8	.....	.....	10s;fg	.....	.....	0.11	2.8	cloudy	A. Buell.
Tucson, Arizona	27.58	700.5	30.04	763.0	53	11.7	57	se.	4	1.8	.....	5 ck	0	w.	.....	0	0	fair	J. L. Whiteside.
Umatilla, Oregon	29.92	760.0	30.30	769.6	25.3	— 3.7	86	se.	5	2.2	.....	0	0	.....	.....	0	0	clear	R. P. Sibley.
Uvalde, Texas	29.02	737.1	30.00	762.0	62	16.7	93	calm	0	0	.....	.....	10 s	.....	calm	0.12	3.0	cloudy	E. C. Imlay.
Vicksburg, Mississippi	29.79	756.7	30.05	763.3	59	15.0	87	se.	3	1.3	.....	.....	10 s	.....	calm	0.11	2.8	cloudy	T. J. Kenan.
Visalia, California	29.48	748.8	29.86	758.4	47	8.3	77	e.	3	1.3	.....	2 c	4 s	.....	.....	0	0	fair	J. T. Cochran.
Washington, D. C.	29.94	760.5	30.06	763.5	39	3.9	89	calm	0	0	.....	.....	8 s;hz	.....	w.	0	0	cloudy	B. M. Pursell.
West Las Animas, Colorado	26.00	660.4	30.08	764.0	31	— 0.6	88	ne.	4	1.8	.....	6 c	0	w.	.....	0	0	fair	J. Grover.
Wickenburg, Arizona	.....	.....	.....	.....	32.2	0.1	78	nw.	.....	.....	1	0	1 s	.....	n.	0	0	clear	H. A. Kremp.
Williamsport, Pa.	29.36	745.7	29.99	761.7	38	3.3	72	ne.	3	1.3	.....	.....	10 s	.....	.....	0	0	threatening	B. F. Hough.
Wilmington, N. Carolina	30.16	766.1	30.22	767.6	52	11.1	80	sw.	1	0.4	.....	.....	10 s	.....	calm	0	0	cloudy	S. A. Haney.
Winnemucca, Nevada	25.70	652.8	30.20	767.1	15	— 9.4	67	ne.	14	6.3	.....	0	0	.....	.....	0	0	clear	J. R. Williams.
Yankton, Dakota	28.72	729.5	30.11	764.8	20	— 6.7	84	nw.	3	1.3	.....	0	0	.....	.....	inap.	inap.	clear	J. H. Atfield.
Yuma, Arizona	29.84	757.9	29.99	761.7	47.8	8.8	63	ne.	4	1.8	.....	0	0	.....	.....	0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.06	560.3	.....	.....	55.0	12.8	83	calm	0	0	.....	.....	10 s	.....	.....	0.40	10.2	cloudy	Joaquin Gomez.
Bridgetown, Barbados, W.I.	30.10	764.5	30.11	764.8	77	25.0	72	e.	.....	.....	.....	5 k	5 ks	e.	e.	0.08	2.0	fair	J. A. Racker.
Buenaventura, U. S. C.	29.97	761.2	29.99	761.7	77	25.0	95	s.	3	1.3	.....	.....	10 n	.....	s.	3.55	90.2	raining	J. I. Plume.
Gundeloupe, W. I.	30.02	762.5	30.04	763.0	75	23.9	87	ne.	.....	.....	.....	0	5 ks	.....	ne.	0	0	.....	B. Bigar.
Havana, Cuba, W. I.	30.14	765.5	30.19	766.8	74	23.3	82	se.	1.2	0.5	.....	0	1 ks	.....	calm	0	0	clear	A. Van Caneghem.
Kingston, Jamaica, W. I.	30.09	764.3	30.10	764.5	71.4	21.9	76	calm	0	0	.....	0	8 s	.....	e.	0	0	fair	Robert Johnston.
Navasa	30.14	765.5	30.22	767.6	75.5	24.2	78	e.	10	4.5	.....	8 ck	5 s	se.	e.	0	0	.....	F. M. Everett.
Paramaribo, S. A.	30.04	763.0	30.04	763.0	79	26.1	78	e.	.....	.....	2	5 k	8 ps	e.	.....	0.900	22.9	.....	Dr. O. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.46	748.3	29.92	760.0	80	26.7	86	calm	.....	.....	0	.....	10 s	.....	calm	0	0	foggy	Miss Flora A. Nichols.
Rivas	.....	.....	.....	.....	.....	.....	.....	ne.	.....	.....	2	5 cs	0	e.	.....	0	0	.....	Robert Mason.
Santiago de Cuba, W. I.	30.09	764.3	30.12	765.0	74	23.3	81	calm	0	0	.....	0	0	.....	.....	0	0	clear	
York Factory, B. A.	30.46	773.7	30.52	775.2	—22.6	—30.0	.....	n.	4	1.8	.....	5 k	5 s	n.	n.	0.02	0.5	snowing	W. Wood.

STATIONS AND VESSELS.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
BRITISH NAVAL.																		
H. M. S. Agincourt, N. 39° 35′, E. 4° 30′	30.30	769.6	58	14.4	87	nnw.			2		2	nnw.						d. clouds.
H. M. S. Albatross, Canton, China	30.24	768.1	69	20.6		ne.			1		1	nne.						blue sky.
H. M. S. Alert, Mahi, Seychelles Id's	29.88	758.9	85.2	29.6	74	nw.			3		6							d. clouds.
H. M. S. Alexandra, Malta, Mediterranean	30.36	771.1	67.5	19.7	55	n.			1–2		6	ne.						d. clouds.
H. M. S. Antelope, N. 40° 09′ E. 25° 23′	30.25	768.3	60	15.6		n.			1									blue sky.
H. M. S. Bacchante, Alexandria, Egypt	30.15	765.8	63	17.2	83	wnw.			1–2		0							blue sky.
H. M. S. Boadicea, S. 33° 54′, E. 18° 26′	29.99	761.7	63	17.2	67	s.			1–2		3	se.						d. clouds.
H. M. S. S. S. Champion, S. 28° 20′ W. 73° 30′	30.02	762.5	65	18.3	83	se.			1		9					2	sse.	d. clouds.
H. M. S. Cleopatra, N. 24° 40′ E. 36° 04′	30.00	762.0	73	22.8	81	nw.			3		8	calm				2	nw.	d. clouds.
H. M. S. Comus, N. 1° 55′, E. 106° 10	30.01	762.2	78	25.6	100	nne.			3		3					4	ne.	d. clouds.
H. M. S. Diamond, S 38° 46′, E. 89° 24′	30.38	771.6	63	17.2	88	calm			0		9	w.						misty.
H. M. S. Dido, N. 14° 34′, W. 61° 04′	30.13	765.3	73	22.8		e.			2		10	ne.						misty.
H. M. Dock-Yard, Bermuda, W. I	30.26	768.6	58	14.4	69	wnw.			2–3		5	wnw.						squally.
H. M. S. Dwarf, S. 34° 35′, W. 58° 19′	30.05	763.3	65	18.3	99	se.			4–5		10					4	se.	overcast.
H. M. S. Eclipse, S. 15° 15′, E. 42° 28′	29.82	757.4	84	28.9		sse.			1–2		4					2	sse.	d. clouds.
H. M. S. Espiegle, S. 39° 40′, E. 68° 09′	30.01	762.2	64	17.8	48	s.			1		7	s.				6	wnw.	d. clouds.
H. M. S. Euryalus, Suez, Egypt	30.12	765.0	69	20.6	60	nnw.			1		0							blue sky.
H. M. S. Flying Fish, N. 34° 41′, E. 135° 12′	30.25	768.3	39	3.9	67	n.			4–6		2	n.				2	n.	squally.
H. M. S. Gannet, S. 38° 10′, W. 87° 15′	30.30	769.6	60	15.6	70	ene.			2		9					1	ene.	d. clouds.
H. M. S. Garnet, Port Egmont, Faulkland Isld	29.62	752.3	52	11.1	86	wsw.			6		7	sw.						squally.
H. M. S. Inconstant, S. 14° 00′ E. 100° 00′	29.95	760.7	82	27.8	70	s.			1		4	s.				3	sse.	d. clouds.
H. M. S. Iron Duke, N. 22° 16′, E. 114° 10′	30.26	768.6	60	15.6	82	calm			0		0							blue sky.
H. M. S. Lark. S. 36° 48′, E. 174° 50′	30.09	764.3	68.3	20.2		ene.			5		6					4	ene.	squally.
H. M. S. Liffey, Coquimbo, Chili	29.94	760.5	60	15.6		n.			1		10							overcast.
H. M. S. Magpie, N. 24° 52′, E. 118° 54′	30.35	770.9	54	12.2	77	ne.			4–6		0					3	ese.	misty.
H. M. S. Malabar, N. 33° 53′, E. 23° 05′	30.22	767.6	59	15.0	76	nnw.			1		1	n.				1	nne.	blue sky.
H. M. S. Oronte, S. 2° 36′, E. 42° 35′	29.90	759.4	81.5	27.5	84	calm			0		2							d. clouds.
H. M. S. Rambler, S. 2° 24′ E. 9° 02′	29.85	758.2	83	28.3		s.			2		9	calm				2	ssw.	threatening
H. M. S. Ready, Muscat, Arabia	29.92	760.0	77.1	25.1		se.			1		6							d. clouds.
H. M. S. Rocket, Vancouver Island, British Columbia	30.19	766.8	30	— 1.1	100	calm			0		2							d. clouds.
H. M. S. Tamar, N. 42° 33′ W. 9° 59′	30.39	771.9	56.5	13.6	100	nne.			5		4	nne.				5	nne.	d. clouds.
H. M. S. Thalia, S. 3° 38′, W. 26° 08′	30.00	762.0	78	25.6		ese.			5		10					1	ese.	drizzling.
H. M. S. Triumph, S. 38° 07′, W. 87° 07′	30.30	769.6	61	16.1	70	ese.			2		8	sse.				1	wsw.	d. clouds.
H. M. S. Woodlark, Bombay, India	29.89	759.2	82.5	28.1	67	wnw.			3–4		0							misty.
PORTUGUESE NAVAL.																		
Quanza, Santiago, Cape Verd Islands	30.07	763.8	76.6	24.8	62	ene.			3		3					2	ene.	d. clouds.
Balder, N. 24° 04′ W. 82° 07′	30.12	765.0	75.4	24.1	91	e.			3		4							d clouds.
UNITED STATES NAVAL.																		
Navy Yard, Pensacola, Fla	30.10	764.5	62	16.7	83	ne.	5	2.2			8		ne.	0	0			fair.
Naval Hospital, Portsmouth, N. H	30.06	763.5	35	1.7	70	sw.	12	5.4			10		sw.	0	0			cloudy.
Naval Hospital, Yokohama, Japan	29.92	760.0	41.5	5.3	41	n.			6		10		w.	0	0			cloudy.
Adams, Callao, Peru	29.75	755.6	68	20.0	95	sse.			1		10					gr'd		foggy.
Alaska, Valparaiso, Chili	29.82	757.4	60	15.6	65	se.			1		0			0	0	sm'h		clear.
Alert, Ilo Ilo, Phillippine Islands*	29.82	757.4	82	27.8	83	nne.			3		0			0	0	sm'h		clear.
Alliance, N. 16° 45′, W. 65° 26′	30.08	764.0	76	24.4	68	e.			3		8			light	light	sm'h		cloudy.
Ashuelot, Tientsin, China	30.56	776.2	30	— 1.1	89	se.			3		0							clear.
Brooklyn, Port Stanley, Falkland Islands	29.55	750.6	52	11.1	93	w.	6	2.7			10		w.	0.16	4.1	sm'h		cloudy.
Colorado, New York, N. Y.	30.10	764.5	39	3.9	73	se.	5	2.2			10		calm	fnap.	fnap.			drizzling.
Enterprise, N. 18° 34′, W. 65° 18′*	30.15	765.8	74	23.3	72	e.			4		8		e.			mod.	ne.	cloudy.
Essex, N. 23° 34′, W. 15° 12′	30.08	764.0	73	22.8	72	e.			4		2		ne.			long	ne.	misty.
Franklin, Norfolk, Va	30.18	766.6	50	10.0	72	s.	12	5.4			10			0	0			cloudy.
Galena, Villafranca, France	30.27	768.8	59	15.0	94	calm			0		2							hazy.
Independence, Mare Island, Cal	29.74	755.4	50	10.0	65	e.			4		10					sm'h		cloudy.
Kearsage, New Orleans, La	30.09	764.3	65	18.3	89	se.			1		5		ne.	0.01	0.3			fair.
Lackawanna, Valparaiso, Chili†	30.04	763.0	61	16.1	100	se.			2		10							misty.
Lancaster, Charrak Turkey, Asia*	30.10	764.5	68	20.0	41	nne.			0–1		0							clear.
Marion, S. 33° 54′, E. 18° 24′*	29.69	754.1	70	21.1	90	sw.			2		10			0	0	sm'h		cloudy.
Michigan, Erie, Pa	29.78	756.4	37	2.8	100	ssw.			3		10		ssw.					raining.
Minnesota, Newport, R. I	30.12	765.0	39	3.9	82	sw.	10	4.5			8		sw.					drizzling.
Monocacy, Yokohama, Japan	30.14	765.5	43	6.1	67	n.			5		10		sw.					overcast.
New Hampshire, Newport, R. I	30.08	764.0	35	1.7	90	sw.			4		10		n.					cloudy.
Nipsic, Lisbon, Portugal	30.33	770.4	63	17.2	?	se.			1		0		sw.			sm'h		clear.
Onward, Callao, Peru†	30.05	763.3	67	19.4	100	sse.			3		5					sm'h		fair.
Palos, Matsua Islands, China	30.47	773.9	56	13.3	51	nne.			5		0		n.			long	w.	clear.
Passaic, Washington, D. C	30.09	764.3	39	3.9	91	ne.			1		10							cloudy.
Pensacola, S. 18° 40′ W. 70° 33′	29.95	760.7	68	20.0	84	e.			1		10							cloudy.
Powhatan, Fort Royal, Martinique, W. I	30.13	765.3	76	24.4	68	ene.			2		8		e.	0	0	sm'h		cloudy.
Quinnebaug, Constantinople, Turkey	30.22	767.6	58	14.4	58	nnw.			3		0			0	0	sm'h		hazy.
Ranger, N. 17° 09′, W. 100° 50′*	29.89	759.2	75	23.9	81	nnw.			3		2		calm	0	0	sm'h		clear.
Richmond, Yokohama, Japan *	30.05	763.3	45	7.2	53	n.			6		10			0	0			cloudy.
Shenandoah, N. 5° 02′, W. 39° 57′*	30.04	763.0	79	26.1	91	ne.			4		5		ne.			sm'h		fair.
St. Louis, League Island, Pa	30.35	770.9	41	5.0	82	sse.	2	0.9			10			0	0			cloudy.
Swatara, Yokohama, Japan *	29.91	759.7	44	6.7	45	nne.			6		10		calm			mod.	nne.	cloudy.
Tennessee, New Orleans, La	30.08	764.0	68	20.0	84	ese.	9	4.0			10		e.	Inap.	Inap.			cloudy.
Vandalia, Key West, Florida†*	30.27	768.8	73	22.8	90	e.			1		5		ese.					fair.
Wabash, Boston, Mass	30.10	764.5	35	1.7	70	sw.	15	6.7			10							snowing.
Wachusetts, Sitka, Alaska	29.86	758.4	35	1.7	100	nw.			1		2		calm			sm'h		snowing.
Wyoming, Port Royal, S. C	30.23	767.8	53	11.7	93	ne.	6	2.7			8		calm	0	0			cloudy.
Yantic, Pensacola, Florida*	30.09	764.3	66	18.9	94	se.			1		5?		se.					clear.?

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.	Character.	Direction from.	
ALLEN LINE.																		
S. S. Nova Scotian, N. 54° 04′ W. 17° 35′	30.13	765.3	50	10.0	.....	ssw.	.....	.....	4	.....	10	.....	ssw.	.....	.....	mod.	sw.	cloudy.
S. S. Peruvian, Liverpool, England*	30.25	768.3	50	10.0	.....	wsw.	.....	.....	4	.....	6?	.....	sw.	0	0	.....	.....	clear.?
S. S. Polynesian, 50° 17′, W. 24° 24′*	30.11	764.8	51	10.6	.....	s.	.....	.....	6	.....	9	.....	sw.	0	0	mod.	w.	hazy.
S. S. Prussian, N. 43° 05′, W. 59° 54′*	30.08	764.0	26	— 3.3	.....	nw.	.....	.....	4	.....	2	.....	.....	.....	.....	light	sw.	hazy.
S. S. Scandinavian, N. 49° 33′, W. 33° 31′*	29.93	760.2	53	11.7	.....	ssw.	.....	.....	7	.....	10	.....	sw.	sh'rs	sh'rs	long	ssw.	overcast.
S. S. Waldensian, N. 55° 52′, W. 4° 50′*	30.25	768.3	50.0	10.0	.....	w.	.....	.....	5	.....	5?	.....	wsw.	1 h'r	sh'rs	.....	.....	clear.
AMERICAN STEAMSHIP COMPANY.																		
S. S. British Crown, N. 40° 22′, W. 62° 02′†	30.32	770.1	41	5.0	.....	nw.	.....	.....	4	.....	9	.....	nw.	3 h'r	snow	mod.	nw.	cloudy.
S. S. Illinois, N. 47° 45′, W. 29° 32′	30.22	767.6	56	13.3	94	wsw.	.....	.....	3	.....	2	.....	wsw.	.....	.....	mod.	n.	clear.
S. S. Indiana, Philadelphia, Pa†	30.13	765.3	38	3.3	81	s.	.....	.....	3	.....	5?	.....	sw.	0	0	.....	.....	clear?
S. S. Ohio, N. 41° 59′ W. 63° 18′*†	30.02	762.5	31	— 0.6	100	w.	.....	.....	3	.....	1	.....	.....	.....	.....	sm'h	.....	clear.
ANCHOR LINE.																		
S. S. Devonia, N. 47° 20′ W. 41° 50′*†	29.86	758.4	45	7.2	.....	sw.	.....	.....	1	.....	10	.....	ssw.	.....	.....	mod.	sw.	rainy.
S. S. Galatia, N. 41° 37′, W. 63° 24′†	30.20	767.1	.....	.....	.....	w.	.....	.....	3	.....	2	.....	wsw.	0	0	sm'h	wsw.	fine.
ATLAS LINE.																		
S. S. Ailsa, N. 18° 19′, W. 74° 30′†	30.10	764.5	76	24.4	76	se.	.....	.....	1	.....	5	.....	ese.	0	0	sm'h	.....	fine.
S. S. Alvo, N. 10° 35, W. 79° 04′	30.03	762.7	79	26.1	.....	nne.	.....	.....	4	.....	8	.....	ne.	0	0	mod.	nne.	fine.
BRITISH METEOROLOGICAL OFFICE.																		
S. Auckland, N. 0° 55′, W. 31° 17′	29.97	761.2	81	27.2	.....	se.	.....	.....	3	.....	6	.....	.....	.....	.....	.....	.....	blue sky.
S. Baroda, S. 49° 49′, E. 38° 20′	29.61	752.1	45.0	7.2	96	nnw.	.....	.....	5	.....	7	.....	.....	.....	.....	.....	.....	misty.
Caldew, N. 1° 33′, W. 28° 11′	30.00	762.0	81.2	27.3	.....	e.	.....	.....	4	.....	8	.....	.....	.....	.....	.....	.....	showery.
S. S. Clpero, Off Start Point, England	30.55	776.0	50	10.0	75	n.	.....	.....	2	.....	4	.....	.....	.....	.....	.....	.....	d. clouds.
Bk. Commewyne, Basse-Tene, W. I.	30.13	765.3	75.3	24.1	66	ene.	.....	.....	4	.....	8	.....	... ...	.....	.....	.....	.....	d. clouds.
Bk. Coppename, N. 36° 45′, W. 36° 50′	30.20	767.1	65	18.3	84	s.	.....	.....	5	.....	10	.....	.....	.....	.....	.....	.....	misty.
S. S. Gordon Castle, N. 7° 16′, E. 75° 30′	29.92	760.0	87.2	30.7	72	ene.	.....	.....	3	.....	0	.....	.. ..	.....	.....	.....	.....	blue sky.
Brig Hermine, S. 22° 14′, W. 27° 08′	30.12	765.0	76.6	24.8	86	ene.	.....	.....	3	.....	5	.....	.....	.....	.....	.....	.....	d clouds.
S. S. Humboldt, N. 41° 09′, W. 51° 00′	29.82	757.4	46	7.8	77	wnw.	.....	.....	2	.....	5	.....	.....	.....	.....	.....	.....	squally.
S. S. Lochee, N. 22° 46′, W. 39° 14′	30.06	763.5	71	21.7	75	w.	.....	.....	2	.....	4	.....	.....	.....	.....	.....	.....	d. clouds.
S. S. Minho, N 10° 28′, W. 27° 15′	30.06	763.5	78.9	26.1	76	ne.	.....	.....	1	.....	5	.....	.....	.....	.....	.....	.....	dense mist.
S. S. Queen of Cambria, N. 15° 29′, E. 82° 56′	29.99	761.7	81.6	27.6	67	nnw.	.....	.....	1	.....	0	.....	.....	.....	.....	.....	.....	blue sky.
BRISTOL CITY LINE.																		
S. S. Brooklyn City, N. 49° 20′, W. 27° 40′*†	30.32	770.1	58	14.4	.....	ssw.	.....	.....	5	.....	8	.....	s.	0	0	chop	s.	cloudy.
CROMWELL LINE.																		
S. S. Hudson, N. 37° 00′, W. 74° 45′*†	30.19	766.8	54	12.2	.....	s.	.....	.....	5	.....	9	.....	sw.	0	0	mod.	s.	overcast.
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. Canada, Havre, France	30.57	776 4	51.8	11.0	.....	n.	.....	.....	1	.....	8	.....	w.	0	0	.....	.....	
St. Laurent, N. 44° 30′, W. 45° 40′*†	29.84	758.0	50.0	10.0	.....	nw.	.....	.....	8	.....	.....	.....	.....	rain	rain	h'vy	nw.	hailing.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Bohemia, N. 48° 10′. W. 29° 37′*†	30.13	765.3	.....	.....	.....	ssw.	.....	.....	6	.....	4	.....	wsw.	0	0	r'gh	ssw.	fine.
S. S. Lessing, Hamburg, Germany	.....	.....	67	19.4	.....	ssw.	.....	.....	3	.....	2	.....	ssw.	0	0	.....	.....	fair.
S. S. Silesia, N. 41° 32′, W. 57° 18′*†	30.08	764.0	34.7	1.5	.....	nw.	.....	.....	6	.....	9	.....	nw.	1 h'r	snow	5–6	nw.	snow & hail.
S. S. Wieland, N. 49° 42′, W 7° 48′	30.61	777.5	52	11.1	.....	calm	.....	.....	0	.....	0	.....	.....	0	0	4–5	w.	clear.
LEYLAND LINE.																		
S. S. Iberian, N. 44° 10′, W. 52° 12′	.....	.....	.....	.....	.....	nnw.	.....	.....	1	.....	10	.....	nnw.	7 h'r	rain	mod.	w.	
MALLORY LINE.																		
S. S. Colorado, N. 37° 58′, 74° 41′†	30.10	764.5	45	7.2	.....	ssw.	.....	.....	6	.....	10	.....	sw.	0	0	mod.	ssw.	cloudy.
MERCHANTS' EXPRESS LINE.																		
S. S. Hermod, N. 44° 00′, W. 42° 10′*†	29.62	752.3	55.4	13.0	.....	s.	.....	.....	4	.....	5	.....	sw.	0	0	long	wsw.	fair.
NATIONAL LINE.																		
S. S. Erin, N. 43° 42′ W. 43° 04′	29.69	754.1	51	10.6	.....	sse.	.....	.....	6	.....	10	.....	.....	0	0	long	sw.	threatening.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Niagara, N. 37° 49′, W. 74° 52′*†	30.24	768.1	47	8.3	.....	ssw.	.....	.....	4	.....	8	.....	ssw.	0	0	sm'h	.....	overcast.
NEW YORK HERALD WEATHER SERVICE.																		
S. S. City of Amsterdam, N. 40° 30′ W. 29° 19′*†	30.34	770.6	52	11.1	.....	sw.	.....	.....	4	.....	.....	.....	.....	.....	.....	.....	wnw.	clear.
S. S. Alvena, N. 18° 11′, W. 73° 44′*†	29.95	760.7	73	22.8	.....	n.	.....	.....	1	.....	.. ..	.....	.....	.....	.....	sm'h	.....	clear.
S. S. City of New York N. 30° 53′ W. 79° 30′*†	30.22	767.6	68	20.0	.....	s.	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	ne.	fair.
S. S. Olbers. N. 33° 11′, W. 16° 00′†*	30.35	770.9	63	17.2	.....	ne.	.....	.....	2–3	.....	.....	.....	.....	.....	.....	.....	nw.	fine.
S. S. P. Oaland, N. 49° 23′ W. 17° 10′	30.51	774.9	57.2	14.0	.....	ssw.	.....	.....	3	.....	.....	.....	.....	.....	.....	.....	.....	fine.
NORTH GERMAN LLOYD.																		
S. S. Hohenzollern, S. 34° 59′, W. 55° 44′*	30.09	764.3	70.2	21.2	.....	sw.	.....	.....	5	.....	3	.....	sw.	rain	rain	3–4	s.	
S. S. Kronprinz F. Wilhelm, N. 46° 00′ W 38° 55′	29.94	760.5	53.6	12.0	.....	wsw.	.....	.....	5–6	.....	8	.....	wnw.	8 h'r	light	6–8	w.	cloudy.
S. S. Main, N. 40° 26′, W. 69° 35′*	30.24	768.1	42.8	6.0	.....	wsw.	.....	.....	2–3	.....	5	.....	wsw.	0	0	mod.	sw.	fine.
S. S. Mosel, N. 48° 43′ W. 26° 28′	30.26	768.6	55.6	13.1	.....	ssw	.....	.....	6	....	10	.....	ssw.	0	0	cross	w.	hazy.
S. S. Neckar, N. 49° 11′ W. 20° 01′	30.59	774.7	57.7	14.3	.....	s.	.....	.....	3–4	.....	6	.....	ssw.	0	0	light	nw.	fair.
S. S. Nurnburg, S. 24° 46′ W. 35° 47′*	30.06	763.5	77.0	25.0	91	calm	.....	.....	0	.....	10	....	.....	8 h'r	h'vy	.....	.....	cloudy.
S. S. Ohio, Bremerhaven, Germany	30.51	774.9	.....	.....	.....	sw.	.....	.....	3	.....	0	.....	.....	0	0	.....	.....	clear.
S. S. Saller, N. 49° 49′, W. 14° 38′	30.54	775.7	48.2	9.0	.....	sw.	.....	... .	4	.....	8	.....	sw.	0	0	long	wnw.	fair.
S. S. Strassburg, N. 40° 19′, W. 66° 43′	30.25	768.3	30.5	2.5	?	w.	.....	.....	3	.....	10?	.....	nnw.	0	0	sm'h	w.	clear ?
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Belgic, N. 23° 39′, E. 118° 03′†	30.19	766.8	67	19.4	90	ne.	... .	.....	6	.....	0	.....	.....	0	0	hv'y	ne.	clear.
S. S. Gaelic, Yokohama, Japan†	30.09	764.3	52	11.1	66	ne.	.....	.....	5	.....	9	.....	ne.	.....	.....	.....	.....	cloudy.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, N. 37° 35′, W. 74° 55′†	30.23	767.8	.....	.....	.....	ssw.	.....	.....	5	.....	10?	.....	.....	0	0	sm'h	.....	clear ?
S. S. Seminole, N. 38° 16′, W. 74° 20′†	30.12	765.0	50	10.0	72	ssw.	.....	.....	3	.....	10	.....	sw.	0	0	sm'h	ssw.	cloudy.
OREGON IMPROVEMENT COMPANY.																		
S. S. Mississippi, N. 48° 21′, W. 124° 52′†	30.22	767.6	42	5.6	74	ne.	.....	.....	1	.....	5	.....	ne.	.....	.....	light	nw	fair.
S. S. Willamette, N. 48° 00′ W. 125° 00′*†	30.18	766.6	41	5.0	82	calm	.....	.....	0	.....	1	.....	e.	0	0	sm'h	n.	blue sky.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. City of Chester, N. 39° 54′, W 124° 17′*†	29.81	757.2	55	12.8	74	wnw.	.....	.....	2	.....	5	.....	nw.	.....	.....	sm'h	.....	fair.
S. S. Oregon, Portland, Oregon†	30.17	766.3	37	2.8	71	nw.	.....	.....	1	.....	0	.....	.....	.....	.....	.....	.....	fine.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, N. 37° 21′, W. 122° 25′†	29.82	757.4	50	10.0	100	ne.	.....	.....	3	.....	10	.....	e.	.....	.....	mod.	wsw.	rainy.
S. S. Geo. W. Elder, N. 40° 54′, W. 127° 38′†	29.76	755.9	52	11.1	.....	se.	.....	.....	5	.....	7	.....	se.	0	0	light	var.	cloudy.
S. S. Idaho, N. 42° 43′, W. 124° 42′†	29.96	761.0	48	8.9	70	n.	.....	.....	4	.....	0	.....	.....	.....	.....	light	nw.	clear.
S. S. Orizaba, N. 33° 42′, W. 118° 14′†	29.92	760.0	57	13.9	75	se.	.....	.....	3	.....	.....	.....	sw.	0	0	light	sw.	clear.
S. S. State of California, N. 46° 00′, W. 124° 00′†	30.09	764.3	41	5.0	74	ne.	.....	.....	4	.....	0	.....	.....	0	0	mod.	wnw.	clear.
S. S. Victoria, Nanaimo, Vancouver's I'd†	30.14	765.5	29	— 1.7	100	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	clear.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, Auckland, S. 33° 50′, E. 163° 40′	29.73	755.1	70	21.1	100	ese.	.....	.....	5	.....	10	.....	e.	io h'r	io h'r	long	e.	drizzling
S. S. City of Pekin, N. 36° 29′, W. 123° 37′†	29.77	756.1	49	9.4	71	se.	.....	.....	6	.....	10	.....	se.	h'vy	h'vy	r'gh	se.	rainy.
S. S. City of Rio de Janeiro, Panama, Panama†	30.16	766.1	78	25.6	78	n.	.....	.....	3	.....	2	.....	n.	0	0	sm'h	.....	fine.
S. S. City of Sydney, Sydney, N. S. W.†	29.90	759.4	69	20.6	80	ene.	.....	.....	4	.....	2	.....	ne.	0	0	sm'h	.....	clear.
S. S. City of Tokio, N. 34° 47′ E. 154° 33′†	29.03	760 2	62	16.7	77	se.	.....	.....	6	.....	10	.....	s.	0	0	high	se.	cloudy.
S. S. Colima, N. 17° 22′, W. 101° 47′†	29.94	760.5	76	24.4	82	wnw.	.....	.....	2	.....	8	.....	nw.	0	0	mod.	con.	cloudy.
S. S. Colon, Aspinwall, Panama†	30.02	762.5	80	26.7	.....	n.	.....	.....	3	.....	8	.....	nne.	.....	.....	.....	.....	cloudy.
S. S. South Carolina, Cuercas Point, Panama†	29.97	761.2	76	24.4	73	n.	.....	.....	5	.....	0	.....	.....	0	0	.....	ne.	fine.
S. S. Zelandia, N. 16° 37′. W. 159° 37′	29.95	760.7	70	21.1	90	var.	.....	.....	1	.....	0	.....	.....	.....	.....	mod.	ne.	fine.
QUEBEC STEAMSHIP COMPANY.																		
S. S. Muriel, N. 24° 08′, W. 65° 00′	.....	.....	.....	.....	.....	ne.	.....	.....	3	.....	0	.....	.....	0	0	mod.	ne.	fair.
S. S. Bermuda, Arecibo, W. I.†	30.22	767.6	72	22.2	.....	n.	.....	.....	6	.....	9	.....	ene.	3 h'r	h'vy	h'vy	ne.	raining.
RED STAR LINE.																		
S. S. Belgenland, N. 40° 30′ W. 69° 01′†	30.23	767 8	48	8.9	78	wsw.	.....	.....	4	.....	9	.....	w.	0	0	sm'h	wsw.	fair.
S. S. Nede land, N. 40° 15′, W. 69° 28′*†	30.71	780.0	42	5.6	.....	sw.	.....	.....	3	.....	8	.....	sw.	0	0	sm'h	wsw.	cloudy.
S. S. Rhynland, N. 44° 45′, W. 39° 21′	29.92	760.0	55	12.8	87	s.	.....	.....	0	.....	10	.....	ssw.	0.1	3	high	wsw.	cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.	Character.	Direction from.	
RED STAR LINE —Continued.																		
S. S. Vaderland, N. 50° 38′, W° 00 15′	30.30	769.6	51	10.6	.....	n.	.....	.....	2	.....	8	.....	nw.	0	0	sm'h	.....	overcast.
S. S. Waesland, N. 47° 14′, W. 31° 15′	30.24	768.1	58	14.4	.....	sw.	.....	.....	4	.....	2	.....	wsw.	0	0	mod.	wnw.	fair.
ROTTERDAM LINE.																		
S. S. Schiedam, Hellevoetsluis, Netherlands*	30.43	772.9	54.5	12.5	74	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	.....	clear.
S. S. W A. Scholten, Rotterdam, Netherlands*	30.19	766.8	62.8	17.1	86	nnw.	.....	.....	2	.....	4	.....	nw.	0	0	.....	.....	
THINGVALLA LINE.																		
S. S. Thingvalla, N. 50° 20′, W. 35° 02′†	30.09	764.3	51.8	11.0	.....	ssw.	.....	.....	3	.....	10	.....	ssw	2 h'r	2 h'r	rg'h	ssw.	covered
WARREN LINE.																		
S. S. Iowa, N. 49° 40′, W. 21° 07′*†	30.53	775.4	53	11.7	.....	s.	.....	.....	4	.....	2	.....	s.	0	0	cross	nw.	clear.
WHITE STAR LINE.																		
S. S. Celtic, N. 50° 15′, W. 22° 12′*†	30.23	767.8	49	9.4	93	ssw.	.....	.....	6	.....	8	.....	s.	0	0	hv'y	wnw.	cloudy.
S. S. Germanic, N. 40° 21′, W. 67° 48′*†	30.34	770.6	38	3.3	.....	sse.	.....	.....	2	.....	1	.....	se.	0	0	sm'h	w.	blue sky.
WILSON LINE.																		
S. S. Romano, N. 41° 12′, W. 53° 18′*†	29.84	757.9	47	8.3	.....	wnw.	.....	.....	6	.....	9	.....	nw.	hail&	snow	mod.	sw.	cloudy.
S. S. Salerno, New York, N. Y.†	30.04	763.0	.....	.....	.....	s.	.....	.....	1–2	.....	10	.....	.....	.....	.....	.....	.....	hazy.
WINSOR LINE.																		
S. S. Catherine Whiting, Off Fire Island, N. Y.†	30.15	765.8	.....	.....	.....	ssw.	.....	.....	3	.....	.....	.....	.....	.....	.....	.....	.....	rainy.
S. S. Norman, N. 39° 50′, W. 73° 50′	30.24	768.1	.....	.....	.....	s.	.....	.....	7	.....	10	.....	sse.	2 h'r	light	sm'h	.....	raining.
MISCELLANEOUS.																		
Sch. Addie Fuller, Cedar Keys, Florida†	30.28	769 1	63	17.2	89	se.	.....	.....	3	0	1 s;ks	.....	.....	0	0	.....	.....	clear.
Bk. Adelaide, S. 6° 38′, W. 33° 50′*†	30.03	762.7	81	27.2	.....	ese.	.....	.....	5	.....	1	.....	ese.	0	0	mod.	se.	fair.
Bk. Alpha, N 37° 10′, W. 74° 00′.*†	30.22	767.6	51	10.6	.....	w.	.....	.....	3	.....	6	.....	w.	0	0	sm'h	.....	cloudy.
Sch. Annie M. Law, N. 41° 45′, W. 62° 02′*†	30.20	767.1	40	4.4	64	wnw.	.....	.....	3	.....	0	.....	.....	12 h'r	snow	mod.	sw.	clear.
Schr. Annie M. Smull, S. 1° 48′, W. 29° 40′*†	29.90	759.4	89	31.7	.....	se.	.....	.....	.....	.....	2	.....	se.	0	0	mod.	se.	clear.
Bk. Bergenseren, N. 33° 30′, W. 39° 15′†	30.03	762.7	.....	.....	.....	ese.	.....	.....	4	.....	.....	.....	ese.	0	0	3	e.	
Bk. Celestina, N. 27° 46′, W. 38° 38′*†	30.01	762.2	.....	.....	.....	se.	.....	.....	3	.....	8	.....	e.	hv'y	h'vy	con.	.....	
Bk. E. L. Pettengill, S. 35° 03′ W 94° 30′†	30.30	769.6	.....	.....	.....	se.	.....	.....	4	.....	2	.....	se.	0	0	sm'h	s.	clear.
S. Enoch Train, Bremerhaven, Germany*	30.33	770.4	.....	.....	.....	w.	.....	.....	2	.....	0	.....	.....	0	0	.....	.....	clear.
U. S. F. C. S. FishHawk, Annapolis, Md †	30.17	766.3	48	8.9	74	se.	.....	.....	1	.....	10	.....	calm	0	0	.....	.....	cloudy.
Bk. Freya, N. 36° 50′, W. 74° 12′	.....	.....	51	10.6	.....	sw.	.....	.....	6	.....	10	.....	w.	0	0	sm'h	.....	hazy.
S. Grecian, N. 15° 00′, W. 26° 39′*†	30.08	764.0	71	21.7	.....	ene.	.....	.....	5	.....	0	.....	.....	0	0	mod.	nw.	hazy.
Bk. Geo. Booth, S. 33° 05′, W. 12° 20′*†	30.10	764.5	.....	.....	.....	nw;w	.....	.....	1	.....	10	.....	.....	driz.	driz.	long	ssw.	
Bk. Granville, S. 3° 25′, W. 29° 50′*†	30.14	765.5	.....	.....	.....	ese.	.....	.....	1	.....	.....	.....	ese.	rain	rain	light	ese.	squally.
Schr Henry Denison, Georgetown, Brit. Guiana S.A†	30.02	762.5	.....	.....	.....	ne.	.....	.....	3	.....	6	.....	ene.	shr's	shr's	.....	.....	fair.
Bk. Johanne Auguste, S 15° 30′, E. 86° 42′*†	29.84	757.9	.....	.....	.....	e.	.....	.....	4	.....	2	.....	e.	5 h'r	light	long	se.	fair.
Bk. Josephine, N. 41° 42′, W. 69° 31′*†	30.28	769.1	.....	.....	.....	ssw.	.....	.....	4	.....	5	.....	.....	0	0	sm'h	.....	hazy.
Bk. Kate Cann, N. 47° 36′, W. 27° 10′	.....	.....	.....	.....	.....	sw.	.....	.....	6	.....	2	.....	nw.	1 h'r	1 h'r	rg'h	wnw.	smoky.
Bkt. Kryolith, N. 40° 40′, W. 35° 18′*†	30.25	768.3	.....	.....	.....	s.	.....	.....	4	.....	5	.....	s.	0	0	long	nnw.	hazy.
S. S. Lamperts, N. 46° 23′, W. 31° 16′*	30.20	767.1	56.7	13.7	84	sw.	.....	.....	4	.....	8	.....	.....	.....	.....	sm'h	nw.	d. clouds.
Schr. Maggie Abbot, Baracoa, Cuba, W. I*†	30.09	764.3	.....	.....	.....	ese.	.....	.....	4	.....	.....	.....	ese.	0	0	.....	.....	clear.
S. S. Malabar, N. 43° 47′ W. 42° 31′*†	29.67	753.6	.....	.....	.....	ssw.	.....	.....	7	.....	.....	.....	s.	0	0	h'vy	s.	cloudy.
Bk. Peppina, N. 37° 40′, E. 12° 19′†	30.22	767.6	64	17.8	78	nw.	.....	.....	3	.....	0	.....	.....	.....	.....	sm'h	.....	clear.
Bk. Pilgrim, S. 47° 00′, E. 49° 52′*†	30.10	764.5	.....	.....	.....	nnw.	.....	.....	3	.....	8	.....	w.	0	0	long	w.	cloudy.
Schr. S. B. Hubbard, Jacksonville, Florida*†	30.31	769.9	65	18.3	.....	n.	.....	.....	1	.....	0	.....	.....	0	0	.....	.....	clear.
Bkt. Spotless, N. 36° 14′ W. 70° 00′*†	30.20	767.1	.....	.....	.....	nw.	.....	.....	.....	.....	.....	.....	nw.	.....	.....	mod.	nw.	cloudy.
Bk. Stella, S. 48° 52′, W. 58° 04′*	29.62	752.3	51.8	11.0	94	wnw.	.....	.....	5	.....	4	.....	w.	0	0	r'gh	sw.	d. clouds.
Bk. Sunbeam, N. 27° 29′, W. 67° 24′*†	30.29	769.4	67	19.4	89	ne.	.....	.....	6	.....	2	.....	ne.	2 h'r	mod.	r'gh	ne.	clear.
S. S. Victoria J Peed, N. 33° 14′ W. 79° 11′*†	30.23	767.8	.....	.....	.....	nnw.	.....	.....	1	.....	9	.....	nw.	.....	.....	.....	.....	
Bg. Wauburn, S. 20° 42′, E. 1° 41′*†	30.15	765.8	.....	.....	.....	sse.	.....	.....	5	.....	5	.....	sse.	.....	.....	light	s.	
S. Wm. Woodbury, Bremerhaven, Germany*†	30.30	769.6	52	11.1	60	w.	.....	.....	2	.....	1	.....	w.	.....	.....	.....	.....	



Data, as appearing in the International Bulletin of similar date.

Isobars in *black* exhibit atmospheric pressure at sea-level, and are charted from data as reported by the several observers.

Isotherms in *red* exhibit temperature of air, similarly charted.

Broken or dotted lines indicate that the lines so broken are doubtful.

Arrows, when charted, fly with the wind and exhibit wind-direction and force.

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W. B. Hazen

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

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INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON MARCH 13, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours	.....	.....	30.31	769.9	65.8	18.8	83	w.	.....	.....	3	.....	0	.....	.....	0	0	clear	Moiroud.
Algiers	.....	.....	30.34	770.6	60.8	16.0	71	ne.	.....	.....	1	.....	3	.....	.....	0	0	pretty fair	Nicolas.
La Calle	.....	.....	30.34	770.6	60.1	15.6	91	nnw.	.....	.....	1	.....	3	.....	.....	0	0	pretty fair	Fonfréde.
Tunis	.....	.....	30.29	769.3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.32	770.0	59.4	15.2	52	n.	.....	.....	2	.....	1	.....	.....	0	0	very fair	Dumas.
Tebessa	.....	.....	30.30	769.7	51.8	11.0	54	se.	.....	.....	3	.....	3	.....	.....	0	0	pretty fair	Derché.
Gerfville	.....	.....	.....	.....	49.3	9.6	79	wnw.	.....	.....	2	.....	4	.....	.....	inap.	inap.	cloudy	Lonchamp.
Laghouat	.....	.....	30.36	771.1	60.1	15.6	48	e.	.....	.....	1	.....	0	.....	.....	c	0	clear	Herbin.
Biskra	.....	.....	30.36	771.2	66.2	19.0	40	s.	.....	.....	1	.....	5	.....	.....	0	0	cloudy	Malau.
Australian.																			
Melbourne, Victoria	29.68	753.9	29.77	756.1	65.7	18.7	68	s.	6	2.7	.....	.....	2	.....	.....	0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.93	760.3	30.49	774.4	57.2	14.0	41	ne.	.....	.....	2	.....	0	.....	.....	0	0	.....	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.68	753.8	30.47	773.8	48.9	9.4	43	w.	11.9	5.3	.....	1 cs	5	.....	.....	0	0	.....	Dr. Wierzbiski.
Eperies	29.51	749.6	30.41	772.4	50.0	10.0	50	se.	.....	.....	1	.....	0	.....	.....	0	0	.....	Julius Mikolik.
Gratz	29.18	741.2	30.45	773.5	51.4	10.8	43	s.	.....	.....	2	.....	0	.....	.....	0.071	1.8	.....	Andreas Rospini.
Hermannstadt	28.97	735.7	30.43	773.0	49.3	9.6	37	n.	.....	.....	2	.....	0	.....	.....	0	0	.....	Prof. A. Gottschling.
Krenesmunster, Obs'y	29.11	739.5	30.49	774.4	48.6	9.2	76	ene.	.....	.....	1	.....	0	.....	.....	0	0	clear	The Staff.
Lemberg	29.37	745.9	30.38	771.6	46.4	8.0	57	nw.	.....	.....	3	.....	5	.....	.....	0	0	.....	Dr. T. Stanecki.
Pola	30.27	768.9	30.38	771.7	62.1	16.7	29	ene.	.....	.....	4	.....	0	.....	.....	0	0	.....	I. R.Hydrographic Office.
Szathmar	29.98	761.5	30.45	773.5	48.9	9.4	39	nw.	.....	.....	2	.....	0	.....	.....	0	0	.....	Joseph Midlinszky, S. J.
Szegedin	30.17	766.4	30.46	773.6	54.3	12.4	31	se.	.....	.....	2	.....	0	.....	.....	0	0	.....	Karl Stancel.
Trieste	30.31	769.9	30.41	772.5	61.9	16.6	23	ne.	.....	.....	2	.....	0	.....	.....	0	0	.....	Rieder.
Vienna	29.78	756.5	30.52	775.1	51.4	10.8	41	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	30.13	765.3	30.23	767.8	53.9	12.2	69	sw.	13	5.8	.....	.....	6	.....	.....	0	0	d. clouds	W. Boswell.
Armagh, Observatory	30.23	767.8	30.47	773.9	50.6	10.3	75	sw.	20	8.9	.....	.....	8	.....	.....	.....	.....	d. clouds	S. Call.
Bidston, Liverpool Obs'y	.....	.....	30.53	775.4	50.4	10.2	70	wsw.	25	11.2	.....	.....	8	.....	.....	.....	.....	overcast	John Hartnup.
Bolton, Sharples	29.96	761.0	30.50	774.7	46.8	8.2	69	wsw.	18	8.0	.....	.....	10	.....	.....	.....	.....	overcast	Thomas Mackereth [A.S.
Bradford, Yorkshire	30.08	764.0	30.47	773.9	50.0	10.0	72	sw.	.....	.....	1	.....	7	.....	.....	0	0	d. clouds	J. McLandsborough, F. R
Bridgetown, Barbadoes	30.01	762.2	30.04	763.0	82.0	27.8	62	ne.	.....	.....	2	.....	3	.....	.....	.....	.....	d clouds	Pvt. J. Surgenor, A. H.C.
Cardington	.....	.....	30.52	775.2	55.0	12.8	63	w.	.....	.....	0.4	.....	3	.....	.....	.....	.....	d. clouds	John McLaren.
Chatham, School M. E.	30.46	773.7	30.59	777.0	47.5	8.6	77	calm	.....	.....	0	.....	0	.....	.....	.....	.....	misty	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	30.38	771.6	30.62	777.7	49.9	9.9	67	ese.	.....	.....	1	.....	3	.....	.....	.....	.....	d. clouds	The Staff.
Fort Napier, Natal	27.66	702.6	29.88	758.9	66.2	15.7	88	s.	.....	.....	1	.....	10	.....	.....	.....	.....	raining	Pvt. E. K Annis, A. H.C.
Free Town, Sierra Leone	29.58	751.3	29.82	757.4	80.0	26.7	95	w.	.....	.....	1	.....	3	.....	.....	.....	.....	blue sky	Sergt. John Robinson.
Galway, Queen's College	.....	.....	30.43	772.9	.....	.....	.....	sw.	.....	.....	3	.....	6	.....	.....	0	0	d. clouds	J. O'Donaghue.
Gibraltar, Mediterranean	30.26	768.6	30.31	769.9	64.5	18.1	73	e.	.....	.....	2	.....	3	.....	.....	.....	.....	blue sky	Opl. O. Baldwin.
Glasgow, Observatory	30.20	767.1	30.41	772.4	46.8	8.2	87	wsw.	.....	.....	5	.....	10 k	.....	.....	.....	.....	foggy	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	30.41	772.4	30.59	777.0	50.9	10.5	62	wsw.	.....	.....	1	.....	0	.....	.....	.....	.....	misty	The Staff.
Guernsey	30.31	769.9	30.05	778.5	53.5	11.9	76	nne.	.....	.....	1	.....	4	.....	.....	.....	.....	foggy	A. Collenette, F. M. S.
Kew, Observatory	30.55	776.0	30.59	777.0	50.8	10.4	56	w.	6	2.7	.....	.....	1	.....	.....	.....	.....	blue sky	The Staff.
Leicester, Museum	30.27	768.8	30.53	775.4	53.0	11.7	90	sw.	.....	.....	1	.....	5	.....	.....	.....	.....	d. clouds	J. C. Smith.
Malta, Mediterranean	30.06	763.5	30.14	765.5	61.6	16.4	77	ne.	.....	.....	2	.....	1	.....	.....	.....	.....	blue sky	I. H. Whysall.
Nassau, Bahamas	30.10	764.5	30.15	765.8	77.5	25.3	75	s.	.....	.....	2	.....	4	.....	.....	.....	.....	d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	30.02	762.5	30.56	776.2	49.0	9.4	71	w.	.....	.....	2	.....	6	.....	.....	.....	.....	d. clouds	John Mac Email.
Oxford, Radcliffe Obs'y	30.35	770.9	30.58	776.7	50.7	10.4	62	wsw.	.....	.....	2	.....	3	.....	.....	.....	.....	blue sky	The Staff.
Plymouth	30.52	775.2	30.60	777.2	50.8	10.4	75	ese.	.....	.....	1	.....	2	.....	.....	.....	.....	d. clouds	John Merrifield.
Sandwick Manse, Orkneys	.....	.....	30.10	764.5	47.9	8.8	95	w.	19	8.5	.....	.....	10	.....	.....	.....	.....	drizzling	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	30.28	769.1	30.35	770.9	52.2	11.2	47	nne.	.....	.....	2	.....	6	.....	.....	.....	.....	d. clouds	W. H. Lyne.
Sheffield	30.23	767.8	30.52	775.2	52.9	11.6	63	sw.	.....	.....	1	.....	1	.....	.....	0	0	blue sky	W. F. Cooper.
Silloth Rectory	30.42	772.7	30.45	773.4	48.0	8.9	86	wsw.	.....	.....	4	.....	5	.....	.....	0	0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	30.51	774.9	47.9	8.8	76	w.	22	9.8	.....	.....	10	.....	.....	.....	.....	overcast	R. S. J. Perry.
Stratfield Turgiss	30.36	771.1	30.58	776.7	53.7	12.1	60	nw.	.....	.....	1	.....	0	.....	.....	.....	.....	blue sky	Rev.C.H.Griffiths, F.M.S.
Truro, Royal Institution	30.54	775.7	30.58	776.7	58	14.4	64	s.	.....	.....	2	.....	6	.....	.....	.....	.....	d. clouds	W. Newcombe.
Valencia, Observatory	30.51	774.9	30.54	775.7	51.6	10.9	83	s.	17	7.6	.....	.....	8	.....	.....	.....	.....	d. clouds	The Met'g'l Office.
Canadian.																			
Charlottetown, P. E. Island	29.54	750.3	29.58	751.3	28	— 2.2	88	e.	16	7.2	.....	.....	10 n	.....	calm	0.100	2.5	light snow	H. J. Cundall, C. E.
Chatham, N. B*	29.53	750.0	29.59	751.6	28	— 2.2	100	e.	1	0.4	.....	.....	10 n	.....	.....	0.09	2.3	light snow	G. A. Blair.
Father Point, Quebec*	29.54	750.3	29.57	751.1	25	— 3.9	96	ne.	15	6.7	.....	.....	10 s	.....	.....	0.03	0.8	light snow	J. McWilliams.
Fort Garry, Manitoba*	29.17	740.9	30.09	764 3	1	—17.2	95	s.	8	3.6	.....	hz	hz	.....	.....	0	0	hazy	James Stewart.
Halifax, N. S*	29.38	746.2	29.52	749.8	31	— 0.6	100	e.	4	1.8	.....	.....	fg.	.....	.....	0.310	7.9	foggy	A. Allison.
Kingston, Ontario*	29.34	745.2	29.69	754.1	24	— 4.4	80	n.	6	2.7	.....	10 s	.....	.....	nw.	0.76	19.3	cloudy	A. P. Knight, M. A.
Montreal, Quebec*	29.40	746.7	29.61	752.1	22	— 5.6	76	e.	8	3.6	.....	0	5 ks	.....	.....	0.18	4.6	fair	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.09	738.9	29.84	757.9	15	— 9.4	83	n.	17	7.6	.....	2 k	2 ks	nw.	nw.	0.25	6.3	fair	Rev. R. Mosley.
Port Dover, Ontario	29.05	737.9	29.78	756.4	26	— 3.3	88	w.	8	3.6	.....	5 k	5 n	w.	w.	0.11	2.8	cloudy	H. Morgan.
Port Stanley, Ontario	29.13	739 9	29.81	757.2	27	— 2.8	88	w.	12	5.4	.....	.....	8 n	.....	nw.	0.08	2.0	cloudy	M. Payne.
Quebec, Quebec*	29.20	741.7	29.54	750.3	25	— 3.9	92	e.	.....	.....	1	.....	10 n	.....	e.	0.22	5.6	light snow	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.33	745.0	29.83	757.7	7	—13.9	80	w.	2	0.9	.....	0	0	.....	.....	0	0	clear	W. H. McIntyre.
Saugeen, Ontario*	29.07	738.4	29.81	757.2	30	— 1.1	92	n.	17	7.6	.....	.....	10 s	.....	.....	0.09	2.3	light snow	
St. Andrews, N. B	29.40	746.7	29.45	748.0	32	0.0	96	e.	3	1.3	.....	.....	10 n	.....	.....	0.17	4.3	cloudy	
Sydney, C. B*	29.65	753.1	29.72	754.9	28	— 2.2	96	se.	12	5.4	.....	.....	10 n	.....	.....	0.07	1.8	light snow	T. C. Hill, C. E.
Toronto, Ontario*	29.37	746.0	29.77	756.1	25	— 3.9	80	n.	8	3.6	.....	.....	10 ks	.....	w.	0.16	4.1	cloudy	Magnetic Observatory.
Yarmouth, N. S*	29.40	746.7	29.47	748.5	34	1.1	96	sw.	1	0.4	.....	.....	fg.	.....	.....	0.24	6.1	foggy	Lt. F. E. Wilmot, R. N.
Sub-series.																			
St. Johns, Newfoundland	29.88	758.9	30.15	765.8	25	— 3.9	.....	sw.	0	c	.....	0	0	.....	.....	0	0	fair	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.23	767.8	30.26	768.6	68.0	20.0	78	se.	8.4	3.8	.....	0	3 s	.....	.....	0	0	hazy	John Duthie.
Cape Town, C. G. H. Obs'y	30.04	763.0	30.08	764.0	82.0	27.8	40	s.	17	7.6	.....	0	0	.....	.....	0	0	.....	The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
CHINESE (*Sub-series*).																			
Hankow	30.27	768.8	30.56	776.2	52.7	11.5	83	nnw.	.....	.....	2	.....	0	.....	.....	0	0	.....	N. Titoushkin.
Zi-Ka-Wei, near Shanghai	30.45	773.4	30.47	774.0	38.8	3.8	87	e.	2.5	1.1	.....	.....	0	.....	.....	0	0	clear	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	30.21	767.3	30.26	768.5	49.1	9.5	72	wnw.	31.3	14	.....	.....	5	.....	.....	.....	.....	.....	Oversergent Fischer.
Fanöe	30.29	769.4	30.31	769.9	46.2	7.9	82	w.	.....	.....	4	.....	5	.....	.....	.....	.....	.....	Overloerer Lauridsen.
Godthaab, Greenland	29.56	750.8	29.60	751.9	3.2	—16.0	90	nnw.	.....	.....	2	.....	5	.....	.....	.....	.....	.....	S. Kleinschmidt.
Stykkisholm, Iceland	29.44	747.8	29.48	748.9	23.7	— 4.6	90	sw.	.....	.....	6	.....	10	.....	.....	.....	.....	snowing	A. O. Thorlacius.
Thorshavn	29.86	758.4	29.89	759.3	42.8	6.0	63	wsw.	20.1	9	.....	.....	7	.....	.....	.....	.....	.....	Overloerer Bergh.
Vestervig	30.08	763.9	30.17	766.2	45.7	7.6	88	w.	.....	.....	6	.....	2	.....	.....	.....	.....	.....	Loearer Oesterboi.
FRENCH.																			
Agen, Normal School	29.78	756.5	30.45	773.4	52.2	11.2	85	calm	.....	.....	0	.....	ku;n	.....	n.	0	0	.....	M. Labroue, Director.
Alençon, Normal School	30.00	762.0	30.55	776.0	55.4	13	55	ne.	.....	.....	1	.....	k	.....	s.	0	0	.....	M. Nicot, Director.
Arras, Engineer School	30.28	769.0	30.54	775.8	55.6	13.1	70	ne.	.....	.....	.....	0	5 n	.....	.....	0	0	½ covered	M. Klein, Commandant.
Avignon, Normal School	30.33	770.4	30.41	772.4	66.2	19	54	n.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.96	761.0	30.52	775.3	55.0	12.8	68	e.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Saillard, Director.
Beauvais, Normal School	30.33	770.4	30.60	777.3	52.5	11.4	52	ne.	.....	.....	1	.....	1c	.....	ne.	0	0	covered	M. Frère Eugène Mari.
Besançon, Normal School	29.50	749.2	30.41	772.5	57.2	14	70	ne.	.....	.....	1	c	0	ne.	.....	0	0	.....	M. Gobin, Director.
Bordeaux, Observatory	30.20	767.1	30.47	773.9	53.4	11.9	75	nnw.	.....	.....	1	.....	8	.....	ne.	0	0	very cloudy	M. Rayet, Director.
Bourges, Normal School	29.96	761.0	30.53	775.4	55.4	13	66	n.	.....	.....	.....	.....	1	.....	n.	0	0	clear	M. Postel, Director.
Brest, Naval Observatory	30.35	770.9	30.60	777.1	59.0	15.0	80	ne.	.....	.....	1	.....	6	.....	ne.	0	0	.....	M. de Kermaree, Dir.
Caen, Normal School	30.48	774.3	30.56	776.2	55.8	13.2	62	s.	.....	.....	1	.....	5	.....	e.	0	0	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	30.16	766.1	30.49	774.4	56.5	13.6	71	wsw.	.....	.....	1	.....	5	.....	n.	0	0	cloudy	M. Jadot, Director.
Charleville, Normal School	30.02	762.6	30.54	775.7	58.6	14.8	66	w.	.....	.....	3	.....	0	.....	.....	0	0	clear	M. Grimard, Director.
Clermont-Ferrand Obs'y	29.11	739.4	30.50	774.7	50.4	10.2	80	n.	.....	.....	1	.....	10	.....	.....	0	0	covered	M. Alluard, Director.
Cluny, Normal School	29.63	752.6	30.49	774.4	52.9	11.6	77	n.	.....	.....	3	.....	3	.....	.....	0	0	.....	M. de Villemontée, Dir.
Commercy, Normal School	29.67	753.6	30.56	776.3	54.9	12.7	64	ne.	.....	.....	1	5 c	.....	ne.	ne.	0.126	3.2	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.76	705.2	30.26	768.5	66.2	19	22	.....	.....	.....	.....	c	0	.....	.....	0	0	.....	M. Jeangirard, Director.
Gréasque, du. Rhone	29.21	742.0	30.32	770.2	67.5	19.7	38	nnw.	.....	.....	2	.....	1	.....	s.	0	0	clear	M. Kina, Director.
Grenoble, Normal School	29.65	753.1	30.42	772.6	59.7	15.4	60	nne.	.....	.....	1	0	2 ks	.....	.....	0	0	slightly cl'dy	M. Ablard, Director.
Guéret, Normal School	28.89	733.7	30.51	774.9	46.4	8	83	ne.	.....	.....	2	.....	0	.....	.....	0	0	clear	M. Rivoire, Director.
Lamballe, Normal School	30.30	769.7	30.58	776.7	54.5	12.5	60	n.	.....	.....	1	.....	5	.....	n.	0	0	cloudy	M. Olliffrault, Director.
Lescar, Normal School	29.88	758.9	30.45	773.5	54.0	12.2	73	w.	.....	.....	1	.....	10	.....	.....	0	0	covered	M. Chauvin, Director.
Lorient, Naval Observatory	30.54	775.8	30.65	778.4	58.6	14.8	72	ne.	.....	.....	1	.....	2	.....	calm	0	0	¼ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.41	747.1	30.50	774.8	47.3	8.5	86	ne.	.....	.....	1	.....	.....	.....	.....	0	0	.....	M. André, Director.
Mans, Normal School	30.33	770.3	30.64	778.3	54.5	12.5	46	e.	.....	.....	3	.....	10	.....	e.	0	0	covered	M. Piboen, Director.
Marseille, Observatory	30.07	763.7	30.34	770.5	65.5	18.6	61	sw.	.....	.....	1.2	.....	1	.....	sse.	0	0	.....	M. Stephan, Director.
Montlouis l'instituteur	25.08	637.1	29.93	760.1	50.0	10.0	35	e.	9.4	4.2	.....	.....	0	.....	.....	0	0	.....	M. Cave, for Dr. Fines.
Montpellier, Normal School	30.22	767.7	30.36	771.1	66.9	19.4	57	n.	.....	.....	2	.....	0	.....	.....	0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.74	755.5	30.54	775.7	54.7	12.6	59	nw.	.....	.....	1	0	2 k	.....	nw.	0	0	slightly cl'dy	M. Hasse, Director
Nantes, Observatory	30.44	773.1	30.60	777.2	60.1	15.6	62	ese.	.....	.....	0–1	0	6k;kn	.....	ne.	0	0	.....	M. Larocque, Director.
Perpignan, Observatory	30.28	769.0	30.39	771.8	62.2	16.8	34	ne.	7.4	3.3	.....	.....	0	.....	.....	0	0	.....	Dr. Fines, Director.
Pic-du-Midi, Summit	21.46	545.0	.....	.....	36.0	2.2	.....	se.	.....	.....	1	.....	1	.....	w.	0	0	clear	Gen'l de Nansouty, Dir.
Privas, Normal School	29.36	745.8	30.44	773.2	57.4	14.1	61	n.	.....	.....	1	1	1	n.	n.	0	0	clear	M. Taillieu.
Puy de Dôme Obs'y, Summit	25.48	647.2	.....	.....	35.4	1.9	100	ene.	.....	.....	4	.....	10	.....	.....	0.031	0.8	foggy	M. Alluard, Director.
Rochefort, Naval Obs'y	30.49	774.4	30.52	775.2	58.3	14.6	95	ene.	.....	.....	1	.....	2	.....	ne.	0	0	¼ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	30.32	770.0	30.53	775.5	57.2	14	58	ene.	.....	.....	1	.....	5	ene.	e.	0	0	cloudy	M. Mouillot, Director.
Rodez, Normal School	28.20	716.3	30.38	771.6	53.2	11.8	65	nw.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Serger, Director.
Rouen, Normal School	30.54	775.8	30.59	777.0	57.6	14.2	45	e.	.....	.....	2	.....	5	.....	.....	0	0	cloudy	M. Platrier, Director.
Saint Maur, Observatory	30.40	772.2	30.57	776.4	54.7	12.6	58	ne.	.....	.....	1	.....	2	.....	ese;e	0	0	.....	M. Renou, Director.
Toulouse, Observatory	29.76	755.9	30.49	774.5	50.2	10.1	75	n.	.....	.....	1	.....	10	.....	nw.	0	0	covered	M. Bailland, Director.
Versailles, Observatory	30.07	763.7	30.56	776.2	52.9	11.6	56	ne.	.....	.....	2	.....	.....	.....	.....	0	0	.....	Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	30.29	769.3	30.58	776.7	52.7	11.5	60	ne.	.....	.....	1	.....	8	.....	ene.	inap.	inap.	.....	M. Marié Davy, Director
GERMAN.																			
Bamberg	29.67	753.5	30.54	775.6	51.4	10.8	43	nw.	.....	.....	3	0	1 s	.....	.....	0	0	.....	Prof. Dr. Hoh.
Berlin	30.26	768.5	30.44	773.1	52.3	11.3	29	nw.	.....	.....	4	.....	2	.....	.....	0	0	.....	Prof. Dr. Arndt.
Breslau	29.94	760.4	30.48	774.1	49.8	9.9	30	w.	.....	.....	2	.....	1	n.	.....	0	0	.....	Royal University Obs'y.
Carlsruhe	30.08	763.9	30.52	775.3	55.4	13.0	52	ne.	.....	.....	1	.....	0	.....	.....	0	0	.....	Albert Senz.
Cassel	29.76	755.9	30.48	774.1	53.2	11.8	43	n.	.....	.....	2	.....	3	n.	.....	0	0	.....	Dr. H. Möhl.
Frankfort on the Main	30.14	765.6	30.52	775.1	53.2	11.8	40	ene.	.....	.....	1	.....	0	.....	.....	0	0	.....	Physical Society.
Friedrichshafen	29.03	737.4	30.50	774 7	50.7	10.4	71	ne.	.....	.....	4	.....	10	e.	.....	0	0	.....	Wilhelm, Chief Tel.
Hamburg	30.36	771.1	30.45	773.5	52.2	11.2	66	w.	.....	.....	4	.....	3	.....	.....	0	0	.....	E. Preller.
Kiel	30.35	771.0	30.37	771.4	48.4	9.1	70	wsw.	.....	.....	6	.....	2	.....	.....	0.008	0.2	.....	Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	30.08	764.0	30.51	774.9	51.8	11.0	43	w.	.....	.....	2	.....	3	.....	.....	0	0	.....	H. Leppig, Asst.
Magdeburg	30.30	769.6	30.50	774.6	53.8	12.1	44	wnw.	.....	.....	3	7 c	0	wnw.	.....	0	0	.....	Dr. Assmann.
Memel	30.03	762.8	30.08	764.0	41.0	5.0	84	w.	.....	.....	6	.....	10	.....	.....	.....	.....	.....	Issermann.
Munich	28.65	727.6	30.54	775.7	47.3	8.5	78	n.	.....	.....	1	.....	1	u.	.....	0	0	.....	Central Station
Neufahrwasser	30.22	767.7	30.24	768.1	48.9	9.4	60	w.	.....	.....	5	.....	10	.....	.....	0	0	.....	A. Lothes.
Neustadt, Palatinate	30.00	762.1	30.54	775.7	54.1	12.3	62	calm	.....	.....	0	.....	1	.....	.....	0	0	.....	Dicknether.
Stuttgart	29.54	750.4	30.45	773.5	55.0	12.8	52	n.	.....	.....	1	.....	1	n.	.....	0	0	.....	Prof. Dr. Schoder
Wustrow	30.33	770.3	30.35	770.9	45.1	7.3	80	w.	.....	.....	4	0	3 s	.....	.....	0	0	.....	Profs. Brandes & Reimer.
GREEK.																			
Athens	29.81	757.2	30.21	767.2	59.7	15.4	.....	ne.	.....	.....	5.0	.....	7 k	.....	.....	0	0	.....	Schmidt & Wourlisch.
INDIAN.																			
Bellary	28.46	722.9	.....	.....	94.8	34.9	9	se.	3.4	1.5	.....	0	0	.....	.....	0	0	blue sky	
Kurrachee	30.01	762 2	30.06	763.5	82.2	27.9	45	w.	13	5.8	.....	.....	7	ssw.	.....	0	0	d. clouds	
Deesa	29.48	748.8	29.94	760.6	92.6	33.7	23	wnw.	9.7	4.3	.....	.....	0	n.	.....	0	0	d. clouds	
Bombay	29.90	759.6	29.94	760.5	82.6	28.1	72	wnw.	9	4.0	.....	.....	0	.....	.....	0	0	blue sky	
Poona, Yarrowda	28.05	712.6	29.86	758.5	94.3	34.6	15	wnw.	22	9.8	.....	.....	1	w.	.....	0	0	d. clouds	
Belgaum	27.39	695.8	29.89	759.1	86.0	30.0	38	ssw.	6	2.7	.....	.....	0	.....	.....	0	0	misty	
Lahore	29.26	743.1	30.00	762.1	81.0	27.2	23	n.	1.0	0.4	.....	.....	8	.....	.....	0	0	d. clouds	
Roorkee	29.04	737.6	29.94	760.5	79.6	26.4	28	nw.	1.9	0.8	.....	.....	5	.....	.....	0	0	.....	
Agra	29.40	746.7	29.96	760.9	88.2	31.2	14	w.	4.1	1.8	.....	.....	0	.....	.....	0	0	.....	
Nagpur	28.89	733.7	29.90	759.6	94.9	34.9	23	calm	3.5	1.6	.....	.....	6	sw.	.....	0	0	d. clouds	
Jubbulpore	28.64	727.4	29.97	761.3	90.3	32.4	16	n.	2.3	1.0	.....	.....	2	.....	.....	0	0	blue sky	
Lucknow	29.56	750.9	29.94	760.4	89.1	31.7	19	wsw.	7.1	3.2	.....	.....	6	wnw.	.....	0	0	misty	
Allahabad	29.62	752.4	29.93	760.3	86.6	30.3	12	nw.	3.4	1.5	.....	.....	1	w.	.....	0	0	d. clouds	
Patna	29.75	755.6	29.93	760.3	84.6	29.2	22	wnw.	5.9	2.6	.....	.....	0	.....	.....	0	0	blue sky	
Hazaribagh	27.93	709.5	29.94	760.6	79.8	26.6	32	nw.	9.0	4.0	.....	.....	0	.....	.....	0	0	blue sky	
Cuttack	29.85	758.2	29.93	760.2	89.1	31.7	45	s.	0.2	0.1	.....	.....	0	.....	.....	0	0	blue sky	
Calcutta, Alipore	29.91	759.7	29.93	760.3	82.2	27.9	45	sw.	1.0	0.4	.....	.....	0	.....	.....	0	0	blue sky	
Dhubri	29.81	757.2	29.93	760.3	79.1	26.2	29	calm	1.0	0.4	.....	.....	0	.....	.....	0	0	blue sky	
Chittagong	29.86	758.5	29.95	760.8	82.2	27.9	38	w.	1.8	0.8	.....	.....	0	.....	.....	0	0	blue sky	
Sibsagar	29.65	753.1	29.99	761.8	73.0	22.8	66	sw.	2.9	1.3	.....	.....	0	.....	.....	0	0	blue sky	
Jeypore	28.53	724.8	29.97	761.2	85.2	29.6	27	wsw.	4.0	1.8	.....	.....	8	sw.	.....	0	0	d. clouds	
Zanzibar, Africa	29.86	758.4	.....	.....	85.7	29.8	72	se.	3.8	1.7	.....	.....	8	.....	n.	0	0	gloomy	
Trichinopoly	29.69	754.1	.....	.....	91.4	33.0	36	ene.	1	0.4	.....	.....	0	.....	.....	0	0	blue sky	
ITALIAN.																			
Udine	30.02	762.6	30.43	773.0	61.0	16.1	35	e.	1.8	0.8	.....	.....	1	.....	.....	0	0	.....	Prof. Giovanni Clodig.
Milan	29.93	760.3	30.45	773.5	60.8	16.0	48	e.	6.3	2.8	.....	.....	1	.....	.....	0	0	.....	Prof. Schiaparelli.
Padua	30.34	770.5	30.45	773.3	59.5	15.3	39	ene.	6.3	2.8	.....	.....	0	.....	.....	0	0	.....	Prof. Dott. Lorenzoni.
Moncalieri	29.52	749.8	30.43	772.9	61.2	16.2	56	nw.	2.5	1.1	.....	.....	6	ne.	.....	0	0	.....	Prof. P. F. Denza.
Genoa	30.16	766.1	30.35	771.0	63.5	17.5	50	nw.	8.1	3.6	.....	.....	0	.....	.....	0.004	0.1	.....	Prof. G. M. Garibaldi.
Mondovi	28.50	724.0	30.43	772.8	55.2	12.9	61	w.	.....	.....	6	.....	1	n.	.....	0	0	.....	Prof. D. C. Bruno.

STATIONS.	BAROMETER. Corrected for instrumental error and for temperature.		BAROMETER. Reduced to sea-level.		Temperature of the air.		Relative humidity.	WIND. Direction.	WIND. Velocity.		WIND. Force.	CLOUDS. Amount and kind. Upper.	CLOUDS. Amount and kind. Lower.	CLOUDS. Direction. Upper.	CLOUDS. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
ITALIAN.—Continued.																			
Pesaro	30.36	771.2	30.41	772.4	54.3	12.4	74	n.	13.0	5.8	.....	.....	0	.....	.....	0	0	.....	Prof. Luigi Guidi.
Florence	30.09	764.3	30.35	770.8	64.8	18.2	41	ne.	.....	.....	4	.....	0	.....	.....	0	0	....	Prof. Costantino Pitter.
Leghorn	30.16	766.1	30.25	768.3	66.7	19.3	40	ene.	5.6	2.5	.....	.....	0	.....	.....	0	0	.....	Prof. P. Monte.
Rome	30.06	763.5	30.23	767.9	69.1	20.6	32	wnw.	0	0	.....	.....	0	.....	.....	0	0	.....	Prof. P. S. Ferrari.
Lecce	29.95	760.7	30.21	767.2	62.2	16.8	57	nw.	15.4	6.9	.....	.....	6	.....	.....	0	0	.....	Prof. C. de Giorgi.
Cosenza	29.30	744.3	30.20	767.0	61.9	16.6	73	wnw.	7.4	3.3	.....	.....	9	nw.	.....	0	0	.....	Prof. D. Conti.
Cagliari	30.00	762.1	30.20	767.0	59.4	15.2	63	se.	.....	.....	2	.....	1	.....	.....	0	0	.....	Prof. A. Pacinotti.
Palermo	29.96	760.9	30.21	767.3	60.8	16.0	54	ne.	6.3	2.8	.....	.....	1	.....	.....	0	0	.....	Prof. G. Ciacciatore.
Syracuse	30.11	764.8	30.16	766.0	57.6	14.2	70	sse.	9.8	4.4	.....	.....	4	e.	.....	0	0	.....	Prof. Vincenzo Guiliano.
Sub-series.																			
Naples, S. R	29.68	753.9	30.20	767.0	65.7	18.7	44	ne.	14.3	6.4	.....	.....	1	ne.	.....	0	0	.....	Prof. T. Brioschi.
Stelvio	22.43	569 6	.....	.....	32.0	0.0	56	se.	.....	.....	2	.....	0	.....	.....	0	0	clear	Prof. P. F. Denza.
Valdobbia	22.48	571.0	.....	.....	38.1	3.4	73	e.	.....	.....	2	.....	4	.....	.....	0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Aomori	30.30	769.6	30.34	770.6	26.8	— 2.9	91	w.	11.5	5.1	.....	.....	10 n	....	.....	.....	.....	light snow..	K. Ogawa.
Hakodate	30.27	768.8	30.28	769.1	27.5	— 2.5	61	nw.	10.2	4.6	.....	.....	10	.....	.....	0	0	covered	
Hiroshima, I. M. Obs'y †	30.40	772.1	30.41	772.4	32.9	0.5	65	nne.	5.2	2.3	...	0	0	.....	.....	0	0	clear	K. Sasaki.
Kanazawa	30.31	769.9	30.42	772.6	33.9	1.1	79	se.	2.2	1.0	.....	.....	10ks;s	.....	.....	0	0	overcast	S. Endo.
Kioto	30.20	767.1	30.39	771.9	30.4	— 0.9	75	calm	0	0	.....	0	0	.....	.....	0	0	clear	M. Tojima.
Kochi	30.35	770.9	30.37	771.4	37.9	3.3	57	n.	13.7	6.1	.....	0	0	.....	.....	0	0	clear	
Nagasaki, I. M. Obs'y	30.20	767.1	30.41	772.4	37.7	3.2	67	ne.	2.3	1.0	.....	0	0	.....	.....	0	0	clear	S. Takehayashi.
Niigata	30.38	771.6	30.41	772.4	32.0	0.0	79	sw.	5.2	2.3	.....	10 ck	0	.....	.....	0.005	0.1	cloudy	
Nobiru	30.33	770.4	30.35	770.9	28.6	— 1.9	84	nnw.	4.8	2.1	.....	0	0	.....	.....	0	0	clear	H. Midzushina.
Supporo	.....	.....	.....	.....	21.0	— 6.1	69	calm	0	0	.....	.....	10	.....	.....	0.025	0.6	covered	
Tokei Obs'y, Yeddo	30.28	769.1	30.36	771.1	36.0	2.2	72	ene.	4.0	1.8	.....	.....	10 s	nnw.	.....	0	0	cloudy	The Staff.
Wakayama	30.33	770.4	30.39	771.9	35.9	2.2	65	ne.	4.8	2.1	.....	0	0	.....	.....	0	0	clear	Y. Kuwamuea.
MAURITIUS.																			
Mauritius Observatory	29.57	751.1	29.76	755.9	79.5	26.4	67	se.	27.0	12.1	.....	6 c;cs	4 k;ks	.....	.....	1.24	31.5	cloudy	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.76	603 4	29.98	761.4	58.1	14.5	77	ne.	6.7	3.0	.....	0	0	.....	.....	0	0	clear	Vicente Fernandez.
Leon	24.43	620.6	30.16	766.2	55.2	12.8	72	n.	.....	.....	1	0	1	.....	.....	0	0	foggy	Prof. M. Leal.
Mazatlan	29.69	754.2	29.96	760.8	65.5	18.6	63	ese.	0.9	0.4	.....	1 c	0	.....	.....	0	0	hazy	F. Quijano, U. E.
Mexico, Central Obs'y	23.15	588 1	30.24	768.1	53.6	12.0	50	calm	0	0	.....	0	0	.....	.....	0	0	fine	M. Tena, M. D.
Morelia	24.25	616.0	30.40	772.2	56.5	13.6	74	s.	.....	.....	3	3	0	sw.	.....	0	0	fine	The Staff.
Pabellon, Aguascalientes	24.02	610.3	30.08	764.1	57.2	14.0	66	calm	0	0	.....	5	0	wsw.	.....	0	0	foggy	M. V. de Leon, M. E.
Puebla, Catholic Institute	23.46	595.8	30.28	769.2	48.2	9.0	60	calm	0	0	.....	0	0	.....	.....	0	0	clear	Prof. P. Spina.
San Luis Potosi	24.29	616.8	30.27	768.9	54.8	12.5	64	e.	.....	.....	1	5	0	w.	.....	0	0	⅛ clouded	G. Barroeta, M. D.
Vera Cruz	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Zacatecas	22.63	574.5	30.28	769.0	53.4	12.0	62	ne.	7.2	3.3	.....	0	0	.....	.....	0	0	fine	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.61	777.6	30.61	777.6	48.9	9.4	.....	w.	.....	.....	3	.....	.....	.....	.....	0.012	0.3	.....	
Groningen	30.45	773.3	30.50	774.7	50.2	10.1	.....	w.	.....	.....	4	.....	.....	.....	.....	0	0	.....	
Helder	30.52	775.3	30.52	775.3	46.8	8.2	.....	sw.	.....	.....	3	.....	.....	.....	.....	0	0	.....	
Hellevoetsluis	30.58	770.6	30.58	776.6	52.9	11.6	75	wsw.	.....	.....	3	.....	.....	.....	.....	0.008	0.2	.....	
Utrecht	30.52	775.3	30.57	776.5	54.5	12.5	61	w.	.....	.....	2	.....	5	.....	.....	0	0	cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.89	759.3	29.96	760.9	46.4	8.0	83	w.	13	6	.....	.....	10	.....	.....	0.252	6.4	.....	
Brono	29.60	751.9	29.64	752.9	33.1	0.6	56	nw.	18	8	.....	.....	10	.....	.....	0.228	5.8	snowing	
Christiania	29.61	752.2	29.76	755.9	55.8	13.2	33	wnw.	9	4	.....	.....	7	.....	.....	0	0	.....	
Gjesvær	28 95	735.4	28.98	736.0	25.9	— 3.4	.....	wsw.	.....	.....	8	.....	10	.....	.....	.....	.....	.....	
Lodingen	29.30	744.3	29.35	745.5	21.9	— 5.6	95	nw.	.....	.....	6	.....	10	.....	.....	0.181	4.6	snowing	
PORTUGUESE.																			
Angra, Azores	.....	.....	.....	.....	61.9	16.6	85	se.	5.6	2.5	.....	.....	3	.....	.....	0	0	.....	Dr. J. A. Sampaio.
Campo Major	29.26	743.1	30.24	768.1	73.4	23.0	24	ese.	3.8	1.7	.....	.....	1	.....	.....	0	0	.....	Dr. A. M. R. dos Santos.
Funchal, Maderia	30.25	768.3	30.34	770.5	65.8	18.8	60	w.	1.8	0 8	.....	.....	2	.....	.....	0	0	.....	Capt. D. A. de Cunha.
Lisbon, Observatory	29.94	760.4	30.30	769.5	63.0	17.2	56	ne.	6.3	2.8	.....	.....	0	.....	.....	0	0	.....	The Staff.
Ponta Delgada, Azores	30.34	770.5	30.41	772.3	63.3	17.4	78	calm	0	0	.....	.....	3	.....	.....	0	0	.....	
Saint Paul de Loando	29.67	753.7	29.87	758.7	80.6	27.0	92	wsw.	2.5	1.1	.....	.....	8	.....	.....	0	0	.....	
Serra da Estrella	25.54	648.6	30.26	768.7	52.9	11.6	35	se.	15.0	6.7	.....	.....	0	.....	.....	0	0	.....	
RUSSIAN.																			
Akmolinski	28.61	726.6	29.73	755.1	27.3	— 2.6	94	sw.	18	8	.....	.....	9 k	.....	.....	0.020	0.5	.....	Major K. Lasarew.
Archangel	29.38	746.3	29.40	746.8	29.8	— 1.2	80	se.	4	2	.....	.....	10	.....	.....	0	0	.....	Capt. Sseliwerstow.
Astrakhan	30.07	763.7	29.98	761.6	34.7	1.5	71	w.	7	3	.....	10 cp	0	.....	.....	0.039	1.0	.....	Capt. Wisganow.
Barnaul	29.27	743.4	29.78	756.5	32.7	0.5	85	wsw.	18	8	.....	.....	10	.....	.....	0	0	.....	Meteorological Obs'y.
Dorpat	29.49	749.0	29.74	755.3	37.4	3.0	88	sw.	13	6	.....	.....	10 n	.....	.....	0.051	1.3	.....	Observatory.
Ekaterinburg	28.47	723.2	29.48	748.7	20.7	— 6.3	74	nnw.	4	2	.....	.....	10	.....	.....	0.004	0.1	snowing	Meteorological Obs'y.
Kasan	29.44	747.8	29.72	755.0	22.8	— 5.1	59	wsw.	2	1	.....	.....	10	.....	.....	0	0	.....	Observatory.
Kertch	30.20	767.1	30.22	767.6	44.1	6.7	78	n.	9	4	.....	0	3 k	.....	.....	0.008	0.2	.....	Lagorio & Snatyrex.
Kieff	29.56	750.8	30.22	767.5	41.2	5.1	54	w.	11	5	.....	c;ck	5 ks	.....	.....	0	0	.....	Observatory.
Lugan	29.89	759.3	30.10	764.6	43.0	6.1	39	wnw.	22	10	.....	.....	4	.....	.....	c	0	.....	Meteorological Obs'y
Moscow	29.28	743.8	29.78	750.3	33.8	1.0	73	s.	4	2	.....	.....	10 s	.....	.....	0.024	0.6	.....	Meteorological Obs'y.
Nikolaiev	30.29	769.4	30.36	771.2	47.3	8.5	54	n.	9	4	.....	0	0	.....	.....	0	0	.....	Capt. Kurdakow.
Nikolaievsk, on the Amoor	29.97	761.2	30.06	763.4	—13.0	—25.0	86	calm	0	0	.....	.....	0	.....	.....	0	0	.....	Lieut. Iwanow.
Pekin, China	30.02	762.4	30.16	766.0	41.9	5.5	50	calm	0	0	.....	0	3 k	.....	.....	0	0	.....	Physical Observatory
St. Petersburg	29.62	752.4	29.64	752.8	36.0	2.2	82	wsw.	9	4	.....	.....	10 n	.....	.....	0.079	2.0	.....	Central Physical Obs
Tashkend, Laboratory	28.32	719.3	29.92	759.9	46.0	7.8	94	e.	7	3	.....	.....	10	.....	.....	0.276	7.0	.....	Teich, A. M.
Tiflis	28.65	727.6	30.09	764.2	49.5	9.7	30	nw.	22	10	.....	6 ck	0	.....	.....	0	0	.....	Physical Observatory
Vladivostok	30.17	766.3	30.24	768.0	29.5	— 1.4	100	se.	7	3	.....	.....	10 n	.....	.....	0	0	.....	
Warsaw	29.92	759.9	30.35	771.0	47.1	8.4	52	wsw.	25	11	.....	9 c;cs	0	.....	.....	.....	.....	.....	Astronomical Obs'y
Wilna	29.66	753.4	30.09	764.3	44.2	6.8	64	wsw.	11	5	.....	.....	9	.....	.....	0.142	3.6	heavy clouds	Berg, Assistant.
Yeniseisk	29.41	747.0	29.71	754.7	23.0	— 5.0	60	n.	2	1	.....	.....	10	.....	.....	0.004	0.1	.....	M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	30.22	767.6	30.32	770.2	61.2	16.2	54	s.	3.4	1.5	.....	.....	0	.....	.....	0	0	clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.43	772.8	30.48	774.3	60.4	15.8	70	nw.	0.4	0.2	.....	3	5	se.	.....	0	0	almost cov'd	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.38	695.4	30.37	771.5	55.0	12.8	47	ne.	11.0	4.9	.....	0	0	.....	.....	0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	28.07	713.0	30.28	769.0	66.9	19.4	34	calm	2.5	1.1	.....	0	0	.....	.....	0	0	clear	The Staff.
Murcia, Met. Obs'y	30.14	765.6	30.29	769.4	69.8	21.0	45	ese.	4.0	1.8	.....	0	4	.....	.....	0	0	clouds	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.36	745.7	30.24	768.1	67.3	19.6	52	e.	3.8	1.7	.....	.....	0	.....	.....	0	0	clear	R. Gil Vallanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I	30.02	762.6	30.09	764.2	68.7	20.4	86	calm	0	0	.....	0	0	.....	.....	0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.97	761.1	30.02	762.5	79.7	26.5	65	ne.	5.5	2.5	.....	0	ks	.....	.....	0.039	1.0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.20	767.0	30.29	769.5	69.6	20.9	40	se.	2.6	1.2	.....	1	2	se.	e.	0	0	.....	Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	30.07	763.8	30.16	766.1	72.7	22.6	89	calm	0	0	.....	3 s	4 kn	e.	e.	0.008	0.2	cloudy	Manuel Maeu.
Tuguegarao, Philippine Id's	29.98	761.5	30.11	764.8	70.0	21.1	88	nnw.	13.1	5.9	.....	3 ck	6 kn	ese.	nne.	0.01	0.3	covered	José L. Yrastorza.
SWEDISH																			
Haparanda	29.30	744.3	29.34	745.3	34.9	1.6	59	w.	.....	.....	2	.....	0	.....	.....	0	0	.....	
Umea	29.41	747.0	29.46	748.3	47.5	8.6	52	w.	.....	.....	2	.....	4	.....	.....	0	0	.....	
Hernosand	29.45	748.0	29.50	749.3	44.4	6.9	51	w.	.....	.....	2	.....	4	.....	.....	0	0	.....	
Stockholm	29.47	748.5	29.65	753.0	46.8	8.2	66	w.	.....	.....	7	.....	10	.....	.....	0	0	.....	
Wisby	29.78	756.5	29.84	758.0	42.8	6.0	82	wsw.	.....	.....	6	.....	7	.....	.....	0	0	.....	
Sub-series.																			
Upsala	29.52	749.9	29.61	752.1	47.5	8.6	70	w.	14.1	6.3	.....	.....	3	.....	.....	0	0	.....	S. G. Fineman.
SWISS.																			
Geneva	29.01	736.9	30.45	773.3	51.3	10.7	73	n.	.....	.....	4	.....	.....	.....	.....	0	0	cloudy	The Observatory.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
TURKISH.																			
Constantinople	.....	.....	30.41	772.4	48.0	8.9	62	ne.	16	7.0	.....	.....	8	.....	n.	0	0	.....	The Observatory.
Valona	.....	.....	30.24	768.1	60.6	15.9	.....	w.	.....	.....	1	.....	10	.....	.....	0	0	covered	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	30.06	763.6	63.9	17.7	69	nw.	.....	.....	1	0	0	.....	.....	0	0	.....	Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	29.52	749.8	29.61	752.1	37	2.8	69	w.	10	4.5	.....	2 ck	7 s	.....	w.	0.04	1.0	cloudy	J. O. Barnes.
Alpena, Michigan	29.26	743.2	29.96	761.0	13.5	—10.3	80	nw.	8	3.6	.....	0	0	.....	.....	0.03	0.8	clear	Jas. J. Fitzgerald.
Atlanta, Georgia	28.74	730.0	29.95	760.7	49.2	9.6	80	nw.	20	8.9	.....	2 k	0	nw.	.....	0.88	22.4	clear	H. Hall.
Atlantic City, New Jersey	29.61	752.1	29.62	752.3	41.8	5.4	93	n.	8	3.6	.....	.....	10 n	.....	nw.	0.26	6.6	light rain	Jas. M. Watson.
Augusta, Georgia	29.64	752.8	29.84	757.9	58.0	14.4	86	w.	5	2.2	.....	.....	10 s	.....	w.	0.98	24.9	cloudy	John Healy.
Baltimore, Maryland	29.64	752.8	29.69	754.1	45	7.2	93	n.	7	3.1	.....	.....	10 s	.....	w.	0.06	1.5	cloudy	Robert Seyboth.
Barnegat, New Jersey	29.58	751.3	29.60	751.8	40.8	4.9	62	n.	20	8.9	.....	.....	10 s	.....	w.	0.28	7.1	cloudy	Chas. F. Merritt.
Bismarck, Dakota	28.12	714.2	30.04	763.0	14	—10.0	83	s.	3	1.3	.....	0	7 s	.....	s.	0	0	fair	Cyrus Cramer.
Boise City, Idaho	26.94	684.3	29.86	758.4	29	— 1.7	88	e.	4	1.8	.....	.....	10 s	.....	calm	0	0	cloudy	B. E. Light.
Boston, Massachusetts	29.36	745.7	29.52	749.8	36.0	2.2	79	w.	7	3.1	.....	.....	10 s	.....	.....	0.08	2.0	cloudy	O. B. Cole.
Brownsville, Texas	29.94	760.5	29.99	761.7	73	22.8	90	calm	0	0	.....	0	9 s	.....	s.	0	0	cloudy	J. C. Galloway.
Buffalo, New York	28.98	736.1	29.77	756.1	28	— 2.2	88	w.	8	3.6	.....	.....	10 ks	.....	w.	0.19	4.8	cloudy	Wm. Finn.
Burlington, Vermont	29.30	744.2	29.60	751.8	28.0	— 2.2	88	n.	11	4.9	.....	.....	10 n	.....	.....	0.03	0.8	light snow	G. C. Schaeffer.
Cairo, Illinois	29.78	756.4	30.20	767.1	36.8	2.7	65	nw.	8	3.6	.....	0	0	.....	.....	0.19	4.8	clear	W. H. Ray.
Campo, California	27.39	695.7	30.00	762.0	39	3.9	92	sw.	3	1.3	.....	.....	10 s	.....	sw.	0.68	17.3	cloudy	W. H. Clendenon.
Camp Thomas, Arizona	27.20	690.9	29.98	761.5	43	6.1	60	calm	.....	.....	0	0	5 s	.....	.....	0	0	fair	J. T. Fitzgerald.
Cape Henry, Virginia	29.61	752.1	29.63	752.6	50	10.0	93	n.	10	4.5	.....	.....	10 n	.....	.....	0.11	2.8	light rain	J. E. Lanouette.
Cape May, New Jersey	29.61	752.1	29.64	752.8	43	6.1	74	n.	21	9.4	.....	.....	10 n	.....	n.	0.25	6.3	light rain	W. Bolten.
Castroville, Texas	29.22	742.2	30.05	763.3	56	13.3	93	nw.	4	1.8	.....	3 c	0	nw.	.....	0	0	fair	T. Jones.
Cedar Keys, Florida	29.96	761.0	29.98	761.5	71	21.7	90	sw.	10	4.5	.....	1 ck	3 ks	.....	sw.	0	0	fair	F. W. Mixer.
Champaign, Illinois	29.22	742.2	30.08	764.0	24.0	— 4.4	73	nw.	17	7.6	.....	2 k	0	nw.	.....	0	0	clear	L. A. Welsh.
Charleston, S. Carolina	29.67	753.6	29.73	755.1	62	16.7	100	sw.	12	5.4	.....	.....	10 s	.....	sw.	1.53	38.9	threatening	J. H. Smith.
Charlotte, N. Carolina	28.87	733.3	29.75	755.6	51.0	10.6	86	nw.	4	1.8	.....	.....	10 s	.....	sw.	0.10	2.5	cloudy	D. O. Donoghue.
Chattanooga, Tennessee	29.19	741.4	30.04	763.0	43.0	6.1	60	nw.	15	6.7	.....	2 k	0	nw.	.....	0.41	10.4	clear	B. L. Goulding.
Cheyenne, Wyoming	23.98	609.1	30.16	766.1	24.2	— 4.3	56	w.	6	2.7	.....	0	0	.....	.....	0	0	clear	E. McGovern.
Chicago, Illinois	29.33	745.0	30.07	763.8	22.8	— 5.1	81	nw.	4	1.8	.....	0	1 s	.....	nw.	inap.	inap.	clear	J. Mitchell.
Chincoteague, Virginia	29.60	751.8	29.62	752.3	46	7.8	93	n.	19	8.5	.....	.....	10 n	.....	n.	0.23	5.8	light rain	F. C. Pratz.
Cincinnati, Ohio	29.32	744.7	30.00	762.0	32	0.0	65	nw.	12	5.4	.....	5 k	0	n.	.....	0	0	fair	R. B. Watkins.
Cleveland, Ohio	29.08	738.6	29.86	758.4	29.4	— 1.4	88	n.	16	7.2	.....	.....	10 n	.....	.....	0.01	0.3	light snow	J. B. Newlin.
Coleman City, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	L. Dorman.
Columbus, Ohio	29.02	737.1	29.91	759.7	31	— 0.6	68	nw.	16	7.2	.....	0	6 ck	.....	nw.	0	0	fair	D. Cuthbertson.
Concho, Texas	28.14	714.7	30.10	764.5	43	6.1	76	w.	3	1.3	.....	0	0	.....	.....	0	0	clear	W. W. McConihe.
Davenport, Iowa	29.49	749.0	30.18	766.6	16	— 8.9	67	nw.	12	5.4	.....	0	0	.....	.....	0	0	clear	R. R. Martin.
Dayton, Washington T'y	28.00	711.2	29.81	757.2	37	2.8	58	se.	1	0.4	.....	0	0	.....	.....	0	0	clear	H. Clifford.
Deadwood, Dakota	25.28	642.1	30.12	765.0	24.5	— 4.2	76	sw.	3	1.3	.....	0	0	.....	.....	0	0	clear	G. W. Scott.
Decatur, Texas	.....	.....	.....	.....	44	6.7	68	se.	9	4.0	.....	0	5 s	.....	.....	0	0	fair	D. J. Carr.
Delaware Breakwater, Del.	29.61	752.1	29.63	752.6	42	5.6	92	n.	31	13.9	.....	.....	10n;fog	.....	.....	0.17	4.3	light rain	A. Schneider.
Denison, Texas	29.31	744.5	30.14	765.5	45.0	7.2	93	n.	3	1.3	.....	.....	10 s	.....	.....	0	0	cloudy	J. McGlone.
Denver, Colorado	24.71	627.6	30.15	765.8	30.0	— 1.1	61	s.	3	1.3	.....	0	0	.....	.....	0	0	clear	F. M. Neal.
Des Moines, Iowa	29.31	744.5	30.27	768.8	17	— 8.3	67	ne.	2	0.9	.....	0	0	.....	.....	inap.	inap.	clear	F. W. Conrad.
Detroit, Michigan	29.15	740.4	29.90	759.4	30.2	— 1.0	78	nw.	12	5.4	.....	.....	10 s	.....	nw.	0.03	0.8	cloudy	C. F. R. Wappenhans.
Dodge City, Kansas	27.48	698.0	30.21	767.3	29.5	— 1.4	82	w.	2	0.9	.....	0	0	.....	.....	0	0	clear	E. A. Thomas.
Dubuque, Iowa	29.42	747.3	30.17	766.3	18	— 7.8	53	nw.	5	2.2	.....	0	0	.....	.....	0	0	clear	J. Harvey Smith.
Duluth, Minnesota	29.41	747.0	30.15	765.8	8	—13.3	76	nw.	14	6.3	.....	0	0	.....	.....	inap.	inap.	clear	N. B. Conger.
Eagle Pass, Texas	29.26	743.2	30.08	764.0	54.1	12.3	93	calm	0	0	.....	0	3 s	.....	.....	0	0	clear	F. Belford.
Eagle Rock, Idaho	25.27	641.8	30.14	765.5	3	—16.1	79	n.	7	3.1	.....	.....	10 s	.....	.....	0	0	cloudy	J. M. Clifford.
Eastport, Maine	29.37	746.0	29.44	747.8	33.5	0.8	94	ne.	13	5.8	.....	.....	10s;fg	.....	e.	0.11	2.8	cloudy	J. H. Melton.
El Paso, Texas	26.31	668.3	30.11	764.8	40	4.4	68	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.04	737.6	29.80	750.9	30	— 1.1	78	nw.	9	4.0	.....	.....	10 s	.....	.....	0.20	5.1	cloudy	R. H. Paxton.
Escanaba, Michigan	29.34	745.2	30.04	763.0	18	— 7.8	84	w.	5	2.2	.....	.....	10 s	.....	.....	0.08	2.0	cloudy	C. Dill.
Florence, Arizona	28.46	722.9	30.03	762.7	46.2	7.9	56	se.	2	0.9	.....	9 cs	0	sw.	.....	0	0	cloudy	R. R. Herman.
Fort Apache, Arizona	25.06	636.5	30.08	764.0	36	2.2	72	ne.	2	0.9	.....	0	0	.....	.....	0	0	clear	W. C. Barnes.
Fort Assinnaboine, Montana	26.96	684.8	29.97	761.2	35	1.7	56	sw.	16	7.2	.....	0	0	.....	.....	0	0	clear	B. O. Lenoir.
Fort Benton, Montana	26.98	685.3	29.96	761.0	29	— 1.7	59	calm	0	0	.....	0	0	.....	.....	0.05	1.3	clear	T. Gibson.
Fort Buford, Dakota	27.89	708.4	30.03	762.7	23	— 5.0	64	se.	4	1.8	.....	0	0	.....	.....	c	0	clear	S. Wheaton.
Fort Custer, Montana	26.70	678.2	30.03	762.7	25	— 3.9	100	se.	4	1.8	.....	0	0	.....	.....	0	0	clear	A. H. Bell.
Fort Davis, Texas	25.24	641.1	30.12	765.0	45	7.2	71	se.	2	0.9	.....	0	0	.....	.....	0	0	clear	V. Vergo.
Fort Elliott, Texas	27.29	693.2	30.12	765.0	37	2.8	72	n.	4	1.8	.....	9 cs	0	calm	.....	0	0	cloudy	J. Williams.
Fort Gibson, Indian T'y	29.58	751.3	30.16	766.1	34.5	1.4	79	calm	0	0	.....	.....	0	.....	.....	0	0	dense fog	W. J. Crandall.
Fort Grant, Arizona	25.24	641.1	30.07	763.8	50	10.0	38	e.	6	2.7	.....	0	7 s	.....	.....	inap.	inap.	clear	J. B. Campbell.
Fort Griffin, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0	0	fair	T. J. Macgowan.
Fort Keogh, Montana	27.37	695.2	30.02	762.5	26	— 3.3	67	calm	0	0	.....	0	0	.....	.....	.....	.....	.....	G. H. Hayne.
Fort Macon, North Carolina	29.64	752.8	29.66	753.4	58	14.4	100	w.	8	3.6	.....	.....	10 s	.....	w.	0	0	clear	W. B. Stockman.
Fort McKavett, Texas	27.83	706.9	30.15	765.8	49.3	9.6	66	sw.	4	1.8	.....	0	0	.....	.....	0.01	0.3	cloudy	L. Leonardy.
Fort Missoula, Montana	26.61	675.9	29.99	761.7	— 1	—18.3	100	ne.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. E. Thatcher.
Fort St. Michaels, Alaska	30.80	782.3	30.84	783.3	15	— 9.4	82	w.	12	5.4	.....	0	0	.....	.....	0	0	clear	J. H. Jones.
Fort Shaw, Montana	26.14	663.9	29.94	760.5	34	1.1	55	sw.	28	12.5	.....	0	0	.....	.....	0	0	clear	A. P. Leavitt.
Fort Sill, Indian Territory	28.89	733.8	30.18	766.6	36.5	2.5	94	n.	12	5.4	.....	0	0	.....	.....	0	0	clear	A. L. Mathews.
Fort Stevenson, Dakota	28.03	711.9	30.01	762.2	17	— 8.3	80	se.	6	2.7	.....	0	0	.....	.....	0	0	clear	T. Cleary.
Fort Verde, Arizona	.....	.....	.....	.....	48.3	9.1	52	s.	.....	.....	1	.....	10 s	.....	sw.	0	0	clear	W. Burrows.
Fort Washakie, Wyoming	24.36	618.7	.....	.....	18.4	— 7.6	67	s.	3	1.3	.....	0	0	.....	.....	0	0	cloudy	D. Brooks.
Fredericksburg, Texas	28.30	718.8	30.06	763.5	53	11.7	93	calm	0	0	.....	0	0	.....	.....	0	0	clear	T. M. Ambler.
Galveston, Texas	30.01	762.2	30.05	763.3	70	21.1	95	w.	4	1.8	.....	.....	10 s	.....	.....	0	0	clear	H. S. Miles.
Grand Haven, Michigan	29.28	743.7	29.98	761.5	27.5	— 2.5	88	nw.	11	4.9	.....	.....	10 n	.....	nw.	0.12	3.0	light snow	W. A. Reid.
Hatteras, North Carolina	29.58	751.3	29.60	751.8	58	14.4	93	w.	17	7.6	.....	9 k	0	sw.	.....	0.08	2.0	cloudy	R. M. Crawford.
Helena, Montana	25.65	651.5	30.02	762.5	23	— 5.0	51	sw.	4	1.8	.....	0	0	.....	.....	0	0	clear	N. C. Smith.
Henrietta, Texas	29.22	742.2	30.26	768.6	44	6.7	83	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	J. W. Byram.
Huron, Dakota	28.76	730.5	30.24	768.1	18	— 7.8	67	se.	9	4.0	.....	.....	10 s	.....	s.	inap.	inap.	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.20	741.7	30.04	763.0	25.5	— 3.6	66	nw.	12	5.4	.....	0	5 ks	.....	nw.	0	0	fair	O. Schutze
Indianola, Texas	29.99	761.7	30.02	762.5	68.2	20.1	100	calm	0	0	.....	.....	fg.	.....	.....	c.01	0.3	dense fog	I. A. Reed.
Jacksboro, Texas	29.03	737.3	30.24	768.1	45	7.2	83	ne.	3	1.3	.....	.....	10 s	.....	.....	0	0	cloudy	J. P. Sherry.
Jacksonville, Florida	29.83	757.7	29.88	758.9	71	21.7	82	sw.	16	7.2	.....	2 cs	3 k	.....	sw.	0	0	fair	J. W. Smith.
Keokuk, Iowa	29.52	749.8	30.21	767.3	20.0	— 6.7	76	nw.	5	2.2	.....	0	0	.....	.....	0	0	clear	F. Z. Gosewisch
Key West, Florida	30.06	763.5	30.08	764.0	74.0	23.3	82	sw.	5	2.2	.....	0	4 k	.....	sw.	0	0	fair	L. M. Melbourne.
Kittyhawk, North Carolina	29.63	752.6	29.65	753.1	52	11.1	90	n.	16	7.2	.....	.....	10 s;fg	.....	n.	0.02	0.5	light rain	E. A. Boals.
Knoxville, Tennessee	28.93	734.8	29.99	761.7	40.8	4.9	66	nw.	11	4.9	.....	0	1 s	.....	nw.	0.13	3.3	clear	J. A. Cody.
La Crosse, Wisconsin	29.36	745.7	30.18	766.6	17	— 8.3	67	n.	8	3.6	.....	0	0	.....	.....	0	0	clear	S. C. Emery.
La Mesilla, New Mexico	26.16	664.5	30.10	764.5	38.0	3.3	64	calm	0	0	.....	2 c	0	.....	.....	0	0	clear	N. D. Lane.
Leavenworth, Kansas	29.30	744.2	30.24	768.1	31	— 0.6	78	calm	0	0	.....	0	fg.	.....	.....	0	0	clear	A. W. Browne.
Lewiston, Idaho	29.02	737.1	29.88	758.9	31.2	— 0.4	54	e.	5	2.2	.....	0	1 s	.....	e.	0	0	clear	W. Binke.
Little Rock, Arkansas	29.80	756.9	30.13	765.3	44	6.7	76	ne.	7	3.1	.....	0	0	.....	.....	0.07	1.8	clear	M. F. Burrows.
Los Angeles, California	29.67	753.6	30.07	763.8	47.3	8.5	86	se.	12	5.4	.....	.....	10 s	.....	calm	0.43	10.9	cloudy	E. F. Kubel.
Louisville, Kentucky	29.44	747.8	30.02	762.5	32.5	0.3	67	w.	10	4.5	.....	2 k	0	nw.	.....	0	0	clear	H. C. Smith.
Lynchburg, Virginia	28.98	736.1	29.70	754.4	48.0	8.9	50	nw.	13	5.8	.....	0	0	.....	.....	0.01	0.3	clear	T. H. Breen.
Madison, Wisconsin	29.06	738.1	30.13	765.3	18	— 7.8	67	nw.	11	4.9	.....	0	0	.....	.....	inap.	inap.	clear	C. A. Shaw.
Marquette, Michigan	29.27	743.4	30.04	763.0	20	— 6.7	84	w.	8	3.6	.....	0	5 s	.....	w.	0.08	2.0	fair	I. Gilligan
Mason, Texas	28.44	722.4	30.13	765.3	55	12.8	69	nw.	2	0.9	.....	0	1 s	.....	calm	0	0	clear	A. M. Wilson.
Memphis, Tennessee	29.83	757.7	30.18	766.6	42	5.6	74	calm	0	0	.....	0	0	.....	.....	0.02	0.5	clear	D. T. Flannery.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind.		Clouds. Direction.		Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
												Upper.	Lower.	Upper.	Lower.				
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–01	0–10	0–10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Milwaukee, Wisconsin	29.28	743.7	30.07	763.8	18	— 7.8	83	nw.	12	5.4	.....	0	0	.....	.....	0 01	0.3	clear	W. Line.
Mobile, Alabama	29.93	760.2	29.97	761.2	68	20.0	90	n.	5	2.2	.....	0	4 k	.....	nw.	0.10	2.5	fair	J. D. Paxton.
Montgomery, Alabama	29.74	755.4	29.98	761.5	57	13.9	80	n.	12	5.4	.....	0	8 s	.....	n.	1.38	35.1	clearing	J. B. McLaughlin.
Moorhead, Minnesota	29.11	739.4	30.19	766.8	— 6.1	—21.2	62	s.	6	2.7	.....	0	0	.....	.....	0	0	clear	H. Bessant.
Morgantown, W. Virginia	28.77	730.7	29.83	757.7	34.0	1.1	78	n.	8	3.6	.....	.....	10 n	.....	.....	0.12	3.0	light snow	J. Sprigg, jr.
Mt. Washington, N. H.	23.09	586.5	29.61	752.1	9.0	—12.8	96	nw.	39	17.4	.....	.....	10n;fg	.....	nw.	0,38	9.7	light snow	J. G. Linsley.
Nashville, Tennessee	29.55	750.6	30.11	764.8	39.1	3.9	78	w.	6	2.7	.....	0	0	.....	.....	0.01	0.3	clear	L. A. Jesunofsky.
New Haven, Connecticut	29.47	748.5	29.59	751.6	38	3.3	61	w.	3	1.3	.....	9 c	0	w.	.....	0.02	0.5	cloudy	J. H. Sherman.
New London, Connecticut	29.52	749.8	29.57	751.1	39	3.9	73	w.	5	2.2	.....	.....	10 s	.....	w.	0.12	3.0	cloudy	J. G. Lynch.
New Orleans, Louisiana	29.95	760.7	30.01	762.2	70.0	21.1	84	w.	6	2.7	.....	0	1 s	.....	w.	inap.	inap.	clear	A. J. Armstrong.
Newport, Rhode Island	29.61	752.1	29.66	753.4	40.0	4.4	86	w.	7	3.1	.....	.....	10 s	.....	calm	0.09	2.3	cloudy	W. McGillivray.
New River, N. Carolina	.....	.....	.....	.....	59	15.0	87	w.	.....	.....	1	.....	10 s	.....	w.	0	0	cloudy	C. C. Corbin.
New Shoreham, Rhode I'd	29.53	750.0	29.56	750.8	40.0	4.4	82	nw.	9	4.0	.....	10 cs	0	nw.	.....	0.12	3.0	cloudy	W. Davis.
New York, New York	29.45	748.0	29.63	752.6	39	3.9	65	w.	12	5.4	.....	3 cs	6 s	sw.	.....	0.02	0.5	cloudy	E. B. Garriott.
Norfolk, Virginia	29.59	751.6	29.62	752.3	54	12.2	86	nw.	4	1.8	.....	.....	10 n	.....	w.	0.09	2.3	light rain	J. T. Elker.
North Platte, Nebraska	27.16	689.9	30.22	767.6	24.6	— 4.1	72	calm	0	0	.....	0	0	.....	.....	0	0	clear	E. F. Brady.
Olympia, Washington T'y	29.58	751.3	29.62	752.3	29.0	— 1.7	88	n.	1	0.4	.....	4 cs	0	s.	.....	0	0	fair	J. Dascomb.
Omaha, Nebraska	29.02	737.1	30.27	768.8	23.6	— 4.7	82	ne.	4	1.8	.....	0	0	.....	.....	0	0	clear	A. Pollak.
Ooglaamie, Pt. Barrow, Alas.	30.54	775.7	30.56	776.2	—14.5	—25.8	67	w.	20	8.9	.....	0	0	.....	.....	0.05	1.3	clear	P. H. Ray.
Oswego, New York	29.32	744.7	29.66	753.4	30.0	— 1.1	82	ne.	9	4.0	.....	.....	10 n	.....	n.	0.25	6.3	heavy snow	S. W. Beall.
Palestine, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	L. M. Pindell.
Pensacola, Florida	29.92	760 0	29.95	760.7	69.7	20.9	90	w.	10	4.5	.....	0	4 s	.....	w.	0	0	fair	M. McGauran,
Philadelphia, Pa	29.56	750.8	29.66	753.4	43	6.1	60	nw.	12	5.4	.....	.....	10 ks	.....	nw.	0.01	0.3	cloudy	T. F. Townsend.
Pike's Peak, Colorado	17.63	447.8	30.22	767.6	6.5	—14.2	83	sw.	40	17.9	.....	0	0	.....	.....	0	0	clear	L. M. Dey.
Ploche, Nevada	23.83	605.3	29.97	761.2	31	— 0.6	100	s.	20	8.9	.....	.....	10 n	.....	s.	0.01	0.3	light snow	C. K. Kitchel.
Pittsburg, Pennsylvania	28.97	735.8	29.82	757.4	33.0	0.6	65	w.	10	4.5	.....	.....	10 s	.....	w.	inap.	inap.	cloudy	J. H. Bryce.
Port Eads, Louisiana	30.03	762.7	30.04	763.0	68.1	20.1	97	w.	8	3.6	.....	0	6 s	.....	w.	inap.	inap.	fair	H. G. Christian.
Port Huron, Michigan	29.17	740.9	29.89	759.2	25.0	— 3.9	76	nw.	7	3.1	.....	4 c	0	.....	.....	0.09	2.3	fair	W. O. Bailey.
Portland, Maine	29.43	747.5	29.48	748.8	39.0	3.9	78	nw.	3	1.3	.....	.....	10s;fg	.....	nw;c.	0.08	2.0	cloudy	D. C. Murphy.
Portland, Oregon	29.56	750.8	29.63	752.6	40.0	4.4	48	calm	0	0	.....	1 k	0	.....	.....	0	0	clear	M. L. Hearne.
Portsmouth, N. Carolina	.....	.....	.....	.....	42	5.6	65	nw.	13	5.8	.....	.....	10 ks	.....	nw.	0	0	cloudy	F. P. Chaffee.
Prescott, Arizona	24.71	627.6	30.05	763.3	42	5.6	54	s.	17	7.6	.....	6 k	0	s.	.....	0	0	fair	J. McN. Wright.
Provincetown, Mass	29.48	748.8	29.51	749.5	39	3.9	89	w.	4	1.8	.....	.....	10 s	.....	.....	0.05	1.3	cloudy	P. T. Jenkins.
Punta Rassa, Florida	30.03	762.7	30.04	763.0	72.5	22.5	84	sw.	14	6.3	.....	0	7 ks	.....	sw.	0	0	fair	W. J. Evans.
Red Bluff, California	29.40	746.7	29.78	756.4	47.2	8.4	93	se.	7	3.1	.....	.....	10 n	.....	.....	0.29	7.4	light rain	J. M. Frantz.
Rio Grande City, Texas	29.91	759.7	30.15	765.8	64	17.8	90	sw.	1	0.4	.....	4 c	0	calm	.....	0	0	fair	W. H. Taylor.
Rochester, New York	29.00	736.6	29.70	754.4	28	— 2.2	88	nw.	10	4.5	.....	.....	10 n	.....	nw.	0.14	3.6	light snow	A. T. Sherwood.
Roseburg, Oregon	29.08	738.6	29.64	752.8	38	3.3	85	calm	0	0	.....	2 ck	7 s	nw.	sw.	0	0	cloudy	J. J. Nanry.
Sacramento, California	29.76	755.9	29.84	757.9	46.6	8.1	86	se.	13	5.8	.....	.....	10 n	.....	sw.	0.20	5.1	light rain	J. A. Barwick.
St. Louis, Missouri	29.55	750.6	30.18	766.6	30.9	— 0.6	78	n.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. H. Webber.
St. Paul, Minnesota	29.27	743.4	30.19	766.8	12.5	—10.8	85	w.	3	1.3	.....	0	0	.....	.....	0	0	clear	O. S. M. Cone.
St. Vincent, Minnesota	29.14	740.1	30.08	764.0	4	—15.6	100	se.	8	3.6	.....	.....	10 s	.....	calm	0	0	cloudy	G. Kingsbury.
Salt Lake City, Utah	25.43	645.9	29.95	760.7	32	0.0	82	n.	1	0.4	.....	5 k	0	sw.	.....	0	0	fair	J. Craig.
San Antonio, Texas	29.34	745.2	30.05	763.3	56.6	13.7	86	calm	0	0	.....	0	fg.	.....	.....	0	0	light fog	E. Lane.
San Diego, California	29.94	760.5	30.01	762.2	49.4	9.7	88	e.	7	3.1	.....	10 k	0	sw.	.....	0.17	4.3	cloudy	A. C. Dobbins.
Sandusky, Ohio	29.15	740.4	29.87	758.7	30	— 1.1	88	nw.	21	9.4	.....	.....	10 n	.....	.....	0.01	0.3	light snow	M. H. Perry.
Sandy Hook, New Jersey	29.59	751.6	29.63	752.6	40.0	4.4	65	ne.	8	3.6	.....	5 k	3 s	calm	ne.	0.06	1.5	cloudy	B. A. Blundon.
San Francisco, California	29.73	755.1	29.80	756.9	48	8.9	81	s.	14	6.3	.....	0	5 s	.....	se.	0.48	12.2	fair	N. Gorom.
Santa Fé, New Mexico	23.23	590.0	30.21	767.3	38	3.3	47	se.	3	1.3	.....	10 ck	0	w.	.....	0	0	cloudy	H. N. Jones.
Savannah, Georgia	29.70	754.4	29.79	756.7	64	17.8	90	n.	9	4.0	.....	0	9 ks	.....	w.	1.82	46.2	cloudy	H. M. Ford.
Shreveport, Louisiana	29.83	757.7	30.08	764.0	56	13.3	93	ne.	8	3.6	.....	0	2 s	.....	.....	0.01	0.3	clear	E. N. Muekins.
Silver City, New Mexico	24.28	616.7	30.06	763.5	35	1.7	37	s.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. B. Wallace.
Sitka, Alaska	29.96	761.0	30.03	762.7	27	— 2.8	77	ne.	12	5.4	.....	0	0	.....	.....	0.02	0.5	clear	J. J. McLean.
Smithville, North Carolina	29.64	752.8	29.68	753.9	60	15.6	93	w.	12	5.4	.....	.....	10 s	.....	w.	0.14	3.6	cloudy	J. C. Rickli.
Spokane Falls, Wash. Ter.	27.79	705.9	29.92	760.0	29	— 1.7	80	ne.	10	4.5	.....	0	0	.....	.....	0	0	clear	D. Moore.
Springfield, Illinois	29.46	748.3	30.18	766.6	26	— 3.3	64	nw.	8	3.6	.....	0	0	.....	.....	0	0	clear	T. B. Jennings.
Springfield, Massachusetts	29.44	747.8	29.58	751.3	37.6	3.1	61	w.	8	3.6	.....	9 cs	0	sw.	.....	0.11	2.8	cloudy	T. S. Outram.
Springfield, Mo	28.72	729.5	30.28	769.1	32	0.0	73	se.	3	1.3	.....	0	0	.....	.....	inap.	inap.	clear	J. B. Marbury.
Stockton, Texas	27.03	686.5	30.11	764.8	45.2	7.3	71	s.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. O'Dowd.
Thatcher's Island, Mass	29.46	748.3	29.52	749.8	38.0	3.3	82	nw.	15	6.7	.....	0	0	.....	.....	0.26	6.6	clear	G. Liebmann.
Toledo, Ohio	29.17	740.9	29.90	759.4	30	— 1.1	68	w.	8	3.6	.....	.....	10 s	.....	w.	0.05	1.3	cloudy	A. Buell.
Tucson, Arizona	27.53	699.2	29.99	761.7	55	12.8	42	e.	3	1.3	.....	.....	9 s	.....	.....	0	0	cloudy	J. L. Whiteside.
Umatilla, Oregon	29.42	747.3	29.80	756.9	33.9	1.1	78	se.	6	2.7	.....	4 cs	0	.....	.....	0	0	fair	R. P. Sibley.
Uvalde, Texas	29.06	738.1	30.04	763.0	55	12.8	93	calm	0	0	.....	5 c	2 s	w.	calm	0.03	0.8	fair	E. O. Imlay.
Vicksburg, Mississippi	29.83	757.7	30.09	764.3	58	14.4	86	n.	8	3.6	.....	.....	10 ks	.....	n.	0.15	3.8	cloudy	T. J. Kenan.
Visalia, California	29.50	749.3	29.88	758.9	43	6.1	74	ne.	5	2.2	.....	0	7 ks	.....	ne.	0.01	0.3	fair	J. T. Cochran.
Washington, D. C.	29.57	751.1	29.69	754.1	45	7.2	60	nw.	8	3.6	.....	.....	10 ks	.....	nw.	0.02	0.5	cloudy	B. M. Pursell.
West Las Animas, Colorado	26.10	662.9	30.18	766.6	21.5	— 5.8	72	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. Grover.
Wickenburg, Arizona	.....	.....	.....	.....	44	6.7	47	s.	.....	.....	1	.....	10 ks	.....	s.	0	0	cloudy	H. A. Kremp.
Williamsport, Pa	29.08	738.6	29.71	754.6	34.5	1.4	56	nw.	8	3.6	.....	4 k	3 ks	nw.	nw.	0.03	0.8	fair	B. F. Hough.
Wilmington, N. Carolina	29.60	751.8	29.66	753.4	61	16.1	93	w.	8	3.6	.....	.....	10 s	.....	w.	0.04	1.0	cloudy	S. A. Haney.
Winnemucca, Nevada	25.27	641.8	29.77	756.1	33	0.6	81	n.	16	7.2	.....	.....	10 s	.....	calm	0	0	cloudy	J. R. Williams.
Yankton, Dakota	28.85	732.8	30.24	768.1	20	— 6.7	84	s.	3	1.3	.....	0	8 ks	.....	.....	0	0	cloudy	J. H. Athfeld.
Yuma, Arizona	29.79	756.7	29.94	760.5	51.0	10.6	69	s.	4	1.8	.....	9 k	0	s.	.....	0	0	cloudy	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.06	560.3	.....	.....	55.0	12.8	77	ne.	2	0.9	.....	8 k	2 s	nw.	.....	0	0	cloudy	Joaquin Gomez.
Bridgetown, Barbados, W. I.	30.10	764.5	30.11	764.8	77	25.0	77	e.	.....	.....	.....	5 k	5 ks	ne	ne.	0	0	fair	J. A. Racker.
Buenaventura, U. S. C.	29.98	761.5	30.00	762.0	78	25.6	95	s.	4	1.8	.....	.....	10 n	.....	.....	2.75	69.8	raining	J. I. Plume.
Gundeloupe, W. I.	29.98	761.5	30.00	762.0	75	23.9	87	e.	.....	.....	.....	2 k	2 ks	.....	.....	0	0	.....	B. Bigar.
Havana, Cuba, W. I.	30.18	766.6	30.23	767.8	75	23.9	76	calm	0	0	.....	0	0	.....	.....	0	0	clear	A. Van Caneghem.
Kingston, Jamaica, W. I.	30.08	764.0	30.09	764.3	68.8	20.4	85	calm	0	0	.....	0	2 s	.....	e.	0	0	fair	Robert Johnston.
Nassau	30.12	765.0	30.20	767.1	75.5	24.2	74	e.	10	4.5	.....	5 ck	2 s	se.	e.	0	0	.....	F. M. Everett.
Paramaribo, S. A.	30.05	763.3	30.05	763.3	76	24.4	95	ne.	.....	.....	2	.....	10 n	e.	.....	0.850	21.6	rainy	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.59	751.6	30.05	763.3	82	27.8	91	n.	.....	.....	1	.....	9 ks	.....	calm	0	0	cloudy	Miss Flora A. Nichols.
Rivas	.....	.....	.....	.....	.....	.....	94	ne.	.....	.....	3	0	1 ks	.....	ne.	0	0	clear	Robert Mason.
Santiago de Cuba, W. I.	30.09	764.3	30.12	765.0	74	23.3	76	calm	0	0	.....	2 ck	2 ks	.....	.....	0	0	fair	
York Factory, B. A.	30.33	770.4	30.39	771.9	—23.0	—30.6	.....	n.	14	6.3	.....	1 c	0	nw.	.....	0.01	0.3	fair	W. Wood.

STATIONS AND VESSELS.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
BRITISH NAVAL.																		
H. M. S. Agincourt, N. 39° 53′, E. 4° 30′	30.34	770.6	59	15.0	94	calm			0		0							blue sky.
H. M. S. Albatross, Canton, China	30.24	768.1	68	20.0		calm			0		3							d. clouds.
H. M. S. Alert, Mahi, Seychelles, Islands	29.91	759.7	85.5	29.7	73	wnw.			2		7							d. clouds.
H. M. S. Alexandra, Malta, Mediterranean	30.18	766.6	61	16.1	77	nne.			1–2		2							d. clouds.
H. M. S. Bacchante, Alexandria, Egypt	30.12	765.0	61	16.1	77	w.			1		0							blue sky.
H. M. S. Boadicea, S. 33° 54′, E. 18° 26′	30.03	762.7	77.5	25.3	67	se.			3		0							blue sky.
H. M. S. Champion, Caldera, Chili	30.01	762.2	64	17.8	100	calm			0		10							d. clouds.
H. M. S. Cleopatra, N. 22° 40′, E. 37° 22′	29.93	760.2	77	25.0	86	nw.			3		7	wnw.				1	nw.	d. clouds.
H. M. S. Comus, N. 2° 34′ E. 107° 47′	29.97	761.2	79	26.1	95	nne.			2–3		3					3	ne.	d. clouds.
H. M. S. Diamond, S. 38° 52′, E. 91° 51′	30.28	769.1	60	15.6	94	nnw.			1–2		9					1	nnw.	misty.
H. M. S. Dido, N. 14° 34′, W. 61° 04′	30.11	764.8	73	22.8		ene.			2		10	ne.						d. clouds.
H. M. Dock Yard, Bermuda, W. I.	30.04	763.0	65	18.3	70	sse.			5–6		8	sse						d. clouds.
H. M. S. Dwarf, S. 34° 35′, W. 58° 19′	30.11	764.8	63.5	17.5	97	se.			2–3		10					2	se.	overcast.
H. M. S. Eclipse, S 15° 00′, E. 43° 16′	29.90	759.4	85	29.4		calm			0		2							d. clouds.
H. M. S. Euryalus, Suez, Egypt	30.02	762.5	68	20.0	64	nnw.			2		0							blue sky.
H. M. S. Fawn, Zebayer Island, Red Sea	29.86	758.4	79	26.1	70	s			3–4		0					4	s.	blue sky.
H. M. S. Flying Fish, N. 34° 41′, E. 135° 12′	30.38	771.6	40	4.4	73	nne.			1		4							misty.
H. M. S. Gannet, S. 38° 10′, W. 85° 50′	30.31	769.9	61	16.1	66	e.			0–1		4					2	ese.	d. clouds.
H. M. S. Garnet, Port Egmont, Faulkland Island	29.68	753.9	52	11.1	79	sw.			5		9							squally.
H. M. S. Inconstant, S. 15° 30′, E. 98° 15′	29.95	760.7	80	26.7	78	se.			4		4	se.				4	se.	d. clouds.
H. M. S. Iron Duke, N. 22° 16′ E. 114° 10′	30.21	767.3	59	15.0	81	calm			0		0							blue sky.
H. M. S. Lark, S. 36° 48′, E. 174° 50′	30.02	762.5	66.3	19.1		ene.			6		6					4	ene.	squally.
H. M. S. Liffey, Coquimbo, Chili	29.96	761.0	61	16.1		n.			1		10							drizzling.
H. M. S. Magpie, N. 24° 52′, E. 118° 54′	30.34	770.6	51.3	10.7	50	ne.			3–5		0					3	ese.	misty.
H. M. S. Malabar, N. 32° 54′, E. 28° 15′	30.10	764 5	63	17.2	83	wnw.			1		3	wnw.				1	wnw.	d. clouds.
H. M. S. Orontes, S. 0° 05′ E. 44° 46′	29.90	759.4	80.5	26.9	83	nne.			2		4	nne.				2	nne.	d. clouds.
H. M. S. Rambler, S. 3° 46′ E. 100 17′	29.88	758.9	78	25.6		se.			2		10					3	ssw.	threatening
H. M. S. Ready, Muscat, Arabia	30.05	763.3	76.1	24.5		nw.			1		9							d. clouds.
H. M. S. Rocket, Vancouver Id., Brit. Col.	29.63	752.6	32	0.0	79	calm			0		2							d. clouds.
H. M. S. Tamar, N. 38° 39′ W. 9° 35′	30.27	768.8	59.5	15.3	94	nnw.			2		2					3	nne.	d. clouds.
H. M. S. Thalia, S. 5° 29′, W. 28° 22′	30.01	762.2	84	28.9		se.			4		1					1	ese.	blue sky.
H. M. S. Triumph, S. 38° 00′, W. 85° 39′	30.35	770.9	60	15.6	70	var.			1		2	sse.				1	wsw.	d. clouds.
H. M. S. Woodlark, Bombay, India	29.91	759.7	80.5	26.9	78	sw.			2–3		0							misty.
PORTUGUESE NAVAL.																		
Quanza, Santiago, Cape Verd Is.	30.02	762.5	77.0	25.0	68	ene.			3		3					3	ene.	d. clouds.
SWEDISH NAVAL.																		
Balder, N. 24° 20′ W. 80° 11′	30.04	763.1	75.6	24.2	91	s.			2		3							d. clouds.
UNITED STATES NAVAL.																		
Navy Yard. Pensacola, Fla.	29.93	760.2	71	21.7	85	w.	10	4.5			5		sw.	0	0			fair.
N. Yard, Portsmouth, N. H.	29.56	750.8	34	1.1	90	w.	7	3.1			10		sw.	0.3	8.			cloudy.
Naval Hospital, Yokohama, Japan	30.17	766.3	39.5	4.2	59	e.			2		8		w.	0	0			cloudy.
Adams, Callao, Peru	29.69	754.1	68	20.0	95	sse.			1–2		10					gr'd		foggy.
Alaska, Valparaiso, Chili	29.92	760.0	58	14.4	82	calm			0		0			0	0	sm'h		clear.
Alert, N. 11° 26′, E. 121° 52′*	29.84	757.9	82	27.8	79	n.			5		2		s.	0	0	sm'h		fair.
Alliance, N. 17° 39′ W. 67° 15′	30.09	764.3	74	23.3	76	ne.			4		8		ne.	h'vy	hv'y	sm'h		fair.
Ashuelot, Tientsin, China	30.20	767.1	46	7.8	62	ese.			1		2		calm					fair.
Brooklyn, Port Stanley, Falkland Islands	29.70	754.4	51	10.6	100	w.	8	3.6			10		w.	0	0	sm'h		cloudy.
Colorado, New York, N. Y.	29.01	752.1	40	4.4	56	nw.	18	8.0			10		sw.	0.04	1.0			cloudy.
Enterprise, St. Croix, W. I.	30.12	765.0	75	23.9	77	ene.			1		2		ene.			sm'h		clear.
Essex, Porto Praya, Cape Verd Ids.	30.09	764.3	75	23.9	56	ene.			5		2		ne.			long	ne	clear.
Franklin, Norfolk, Va.	29.65	753.1	54	12.2	87	wnw.	7	3.1			10			0.15	3.8			raining.
Galena, Villafranca, France	30.32	770.1	71	21.7		se.			1		0					sm'h		clear.
Independence, Mare Island, Cal.	29.08	753.9	47	8.3	92	ese.			2		10		ese.	0.42	10.7			cloudy.
Kearsarge, New Orleans, La.	30.02	762.5	70	27.1	90	w.			2		2		w.					fair.
Lackawana, Valparaiso, Chili†	30.07	763.8	58	14.4	94	nne.			0–1		10							foggy.
Lancaster, Chanak, Turkey, Asia*	30.29	769.4	54	12.2	55	ene.			4		5		ne.	0	0	cross		fair.
Marion, S. 33° 54′, E. 18° 24′*	29.80	756.9	76	24.4	73	se.			1		2					sm'h		hazy.
Michigan, Erie, Pa.	29.83	757.7	30	— 1.1	100	nnw.			2		10		se.					cloudy.
Minnesota, Newport, R. I.	30.55	776.0	41	5.0	82	nw.	6	2.7			10							hazy.
Monocacy, Yokohama, Japan.	30.37	771.4	41	5.0	65	e.			2		5		calm					fair.
New Hampshire, Newport, R. I.	29.50	749.3	40	4.4	73	nnw.			3		10					sm'h		cloudy.
Nipsic, Lisbon, Portugal	30.28	769.1	65	18.3	63	e.			2		0					sm'h		clear.
Onward, Callao, Peru†	30.05	763.3	65	18.3	100	sse.			2		10		nnw.			long	w.	foggy.
Palos, N. 27° 15′, E. 120° 59′	30.43	772.9	48	8.9	78	ne.			4		0					mod.	ne.	clear.
Passaic, Washington, D. C.	29.71	754.6	46	7.8	84	nw.			2		8		nw.					fair.
Pensacola, Arica, Peru	30.02	762.5	67	19.4	89	calm	0	0			10			0	0	long	sw.	cloudy.
Powhatan, Fort Royal, Martinique, W. I.	30.11	764.8	77	25.0	65	ene.			3		8		ese.					cloudy.
Quinnebang, Constantinople, Turkey	30.41	772.4	49	9.4	71	ne.			4		2		ene.			sm'h		fair.
Ranger, N. 18° 04′, W. 103° 07′*	29.84	757.9	74	23.3	90	nw.			0–1		2		calm	0	0	sm'h		clear.
Richmond, Yokohama, Japan*	30.26	768.6	42	5.6	50	e.			4		8			0	0			fair.
Shenandoah, N. 6° 39′, W. 41° 52′*	30.08	764.0	79	26.1	82	ne.			4		5?		ne.			mod.	ne.	clear ?
St. Louis, League Island, Pa.	29.90	759.4	41	5.0	65	nw.	8	3.6			8			0.04	1.0			fair.
Swatara, Yokohama, Japan*	30.13	765.3	42	5.6	91	e.			3		8		ne.			mod.	ene.	fair.
Tennessee, New Orleans, La.	29.94	760.5	72	22.2	85	sw.	6	2.7			5			0	0			fair.
Vandalia, Key West, Florida*†	30.21	767.3	75	23.9	90	ssw.			1		2		s.					cloudy.
Wabash, Boston, Mass.	29.55	750.6	38	3.3	72	w.	3	1.3			10		nw.	0.11	2.8			clear.
Wachusetts, Sitka, Alaska	29.93	760.2	26	— 3.3		ne.			1		0					sm'h		overcast.
Wyoming, Port Royal, S. C.	29.74	755.4	62	16.7	100	sw.	12	5.4			10		w.	0.8	20.			clear.
Yantic, Pensacola, Florida*	30.03	762.7	74	23.3	46	n.			2		2							

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.			Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Amount and kind.		Direction.						
								Force.	Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Nova Scotia, N. 55° 18′, W. 9° 27′	30.22	767.6	52	11.1	.....	ssw.	.....	.....	4	.....	8	.....	ssw.	.....	.....	long	wnw.	hazy.
S. S. Peruvian, Liverpool, Eng.*	30.30	769.6	44	6.7	.....	wsw.	.....	.....	4	.....	8	.....	w.	0	0	.....	.....	cloudy.
S. S. Polynesian, N. 49° 20′, W. 30° 50′.*	29.64	752.8	49	9.4	.....	wsw.	.....	.....	6	.....	10	.....	w.	6 h'r	6 h'r	cross	wsw.	overcast.
S. S. Prussian, N. 42° 24′, W. 54° 00′*	30.07	763.8	46	7.8	.....	se.	.....	.....	5	.....	8?	.....	se.	.....	.....	light	se.	clear.?
S. S. Scandinavian, N. 48° 26′, W. 36° 01′*	29.74	755.4	47	8.3	.....	wsw.	.....	.....	8	.....	7	.....	.....	.....	.....	high	con.	showery.
S. S. Waldensian, Glasgow, Scotland*	30.21	767.3	50	10.0	.....	w.	.....	.....	5	.....	5?	.....	w.	0	0	.....	.....	cloudy ?.
AMERICAN STEAMSHIP COMPANY.																		
S. S. British Crown, N. 40° 48′ W. 55° 34†.	30.13	765.3	56	13.3	.....	ssw.	.....	.....	6	.....	10	.....	.....	3 h'r	light	h'vy	ssw.	raining.
S. S. Illinois, N. 49° 46′, W. 21° 54′	30.28	769.1	56	13.3	94	wsw.	.....	.....	6	.....	2	.....	s.	.....	.....	r'gh	sw.	fine.
S. S. Indiana, Philadelphia, Penn†.	29.71	754.6	42	5.6	50	nw.	.....	.....	4	.....	5?	.....	nnw.	0	0	.....	.....	clear.?
ANCHOR LINE.																		
S. S. Devonia, N. 44° 58′, W. 47° 00′*†	30.21	767.3	35	1.7	.....	wsw.	.....	.....	1	.....	5	.....	wsw.	.....	.....	mod.	sw.	fair.
S. S. Galatia, N. 40° 53′, W. 68° 31′†.	29.63	752.6	.....	.....	.....	wsw.	.....	.....	3	.....	9	.....	wnw.	3 h'r	3 h'r	mod.	sw.	overcast.
ATLAS LINE.																		
S. S. Ailsa, N. 14° 30′ W. 74° 26′†.	30.06	763.5	78	25.6	82	e.	.....	.....	3	.....	5	.....	e.	0	0	mod.	e.	fair.
S. S. Alvo, N. 13° 03′, W. 77° 34′	30.08	764.0	81	27.2	.....	ne.	.....	.....	6	.....	3	.....	nne.	0	0	high	ne.	fine.
BOSTON AND HALIFAX.																		
S. S. Carroll, Boston, Mass'†	29.46	748.3	.....	.....	.....	nw.	.....	.....	.....	.....	.....	.....	.....	0	0	.....	.....	clear..
BRITISH METEOROLOGICAL OFFICE.																		
S. S. Auckland, N. 2° 38′, W. 31° 30′	30.01	762.2	81	27.2	.....	ese.	.....	.....	2	.....	7	.....	.....	.....	.....	.....	.....	d. clouds.
Baroda, S. 49° 56′, E. 43° 41′	29.40	746.7	46.5	8.1	92	wsw.	.....	.....	6	.....	6	.....	.....	.....	.....	.....	.....	d. clouds.
Bk. Caldew, N. 2° 28′, W. 28° 24′	30.08	764.0	76.8	24.9	.....	n.	.....	.....	1	.....	10	.....	.....	.....	.....	.....	.....	raining.
S. S. Cipero, Off Bishop Light, England	30.59	777.0	52.5	11.4	76	nw.	.....	.....	1	.....	7	.....	.....	.....	.....	.....	.....	d. clouds.
Bk. Commewyne, N. 19° 48′, W. 63° 37′	30.16	766.1	74.8	23.8	66	e.	.....	.....	4	.....	9	.....	.....	.....	.....	.....	.....	d. clouds.
Coppename, N. 38° 52′, W. 34° 30′	30.14	765.5	63	17.2	86	ssw.	.....	.....	4	.....	10	.....	.....	.....	.....	.....	.....	drizzling.
S. S. Gordon Castle, N. 6° 23′, E. 79° 10′	29.93	760.2	88	31.1	76	nne.	.....	.....	3	.....	5	.....	.....	.....	.....	.....	.....	d. clouds.
S. S. Hermine, S. 22° 47′, W. 27° 13′	30.17	766.3	79.6	26.4	80	ene.	.....	.....	3	.....	6	.....	.....	.....	.....	.....	.....	d. clouds.
S. S. Humboldt, N. 41° 54′, W. 45° 00′	30.30	769.6	45	7.2	73	wnw.	.....	.....	5	.....	7	.....	.....	.....	.....	.....	.....	d. clouds.
S. Lochee, N. 23° 42′, W. 39° 55′	30.21	767.3	70.8	21.6	75	nne.	.....	.....	3	.....	7	.....	.....	.....	.....	.....	.....	d. clouds.
Minho, N. 14° 13′, W. 26° 09′	30.11	764.8	74.8	23.8	72	ne.	.....	.....	5	.....	4	.....	.....	.....	.....	.....	.....	misty.
Queen of Cambria, N. 16° 29′, E. 83° 03′	29.96	761.0	85.5	29.7	78	ssw.	.....	.....	3	.....	0	.....	.....	.....	.....	.....	.....	blue sky.
BRISTOL CITY LINE.																		
S. S. Brooklyn City, N. 50° 30′, W. 21° 10′*†	30.28	769.1	60	15.6	.....	ssw.	.....	.....	6	.....	6	.....	s.	0	0	high	sw.	fine.
CROMWELL LINE.																		
S. S. Hudson, N. 34° 10′, W. 76° 20′*†	29.67	753.6	65	18.3	.....	wsw.	.....	.....	6	.....	10	.....	wsw.	0	0	h'vy	sw.	overcast.
CUNARD LINE.																		
S. S. Gallia, N. 52° 07′, W. 15° 25′	30.43	772.9	52	11.1	100	ssw.	.....	.....	6	.....	8	.....	sw.	0	0	long	w.	fair.
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. Canada, Havre, France	30.61	777.4	55.4	13.0	.....	s.	.....	.....	1	.....	0	.....	.....	0	0	.....	.....	clear.
S. S. St Laurent, N. 43° —′, W. 51° 40′†*	29.76	756.0	41.0	5.0	.....	ssw.	.....	.....	8	.....	.....	.....	.....	rain	rain	hv'y	ssw.	hailing.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Bohemia, N. 47° 06′, W. 35° 03′ *†	29.99	761.7	.....	.....	.....	wsw.	.....	.....	7	.....	1	.....	.....	2 h'r	light	h'vy	sw.	fine.
S. S. Lessing, Hamburg, Germany	.....	.....	60	15.6	.....	w.	.....	.....	4	.....	5	.....	n.	0	0	.....	.....	fair.
S. S. Silesia, N. 42° 13′, W. 50° 43′*†	30.25	768.3	39.9	4.4	.....	sse.	.....	.....	4–5	.....	.....	.....	.....	0	0	3	wnw.	fair.
S. S. Wieland, N. 49° 23′, W. 15° 15′	30.54	775.7	52	11.1	.....	s.	.....	.....	4	.....	8	.....	sw.	driz	driz	5	wnw.	rainy.
LEYLAND LINE.																		
S. S. Iberian, N. 43° 18′ W. 57° 44	.....	.....	.....	.....	.....	s.	.....	.....	3	.....	10	.....	nnw.	4 h'r	snow	.....	.....	
MALLORY LINE.																		
S. S. Colorado, N. 34° 26′, W. 76° 10†	29.58	751.3	61	16.1	.....	w.	.....	.....	7	.....	10	.....	w.	0	0	high	ssw.	cloudy.
MERCHANTS' EXPRESS LINE.																		
S. S. Freja, N. 40° 18′, W. 69° 51′†	29.56	750.8	49	9.4	100	calm	.....	.....	0	.....	.....	.....	.....	5 h'r	5 h'r	sm'h	.....	drizzling.
S. S. Hermod, N. 45° 34′, W. 37° 05′*†	29.69	754.1	60.8	16.0	.....	wsw.	.....	.....	8	.....	6	.....	wsw.	sh'rs	shr's	h'vy	wsw.	showery.
NATIONAL LINE.																		
S. S. Erin, N. 42° 39′ W. 46° 09′	30.18	766.6	36	2.2	.....	w.	.....	.....	5	.....	2	.....	w.	0	0	h'vy	wsw.	squally.....
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Niagara, N. 34° 13′, W. 76° 16′*†	29.74	755.4	62	16.7	.....	wsw.	.....	.....	6	.....	9	.....	w.	0	0	h'vy	ssw.	threatening
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Amsterdam, N. 47° 49′ W. 34° 36′*†	30.00	762.0	53	11.7	.....	wsw.	.....	.....	4–5	.....	.....	.....	.....	.....	.....	.....	wsw.	
S. S. Alvena, N. 18° 12, W. 72° 33′*†	29.95	760 7	78	25.6	.....	n.	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	clear.
S. S. Maas N. 49° 50′ W. 6° 49′.*	30.55	776.0	59.5	15.3	.....	e.	.....	.....	1	.....	.....	.....	.....	.....	.....	high	nw.	fine.
S. S. New York, N. 34° 40′ W. 75° 15′*†	29.65	753.1	68	20.0	.....	wsw.	.....	.....	6	.....	.....	.....	.....	.....	.....	.....	s.	
S. S. Olbers, N. 30° 49′ W. 18° 00′*†	30.40	772.1	66	18.9	.....	e.	.....	.....	3–4	.....	.....	.....	.....	.....	.....	.....	wsw.	fine.
S. S. P. Caland, N. 49° 38′ W. 10° 28′	30.52	775.2	57.2	14.0	.....	sse.	.....	.....	3	.....	.....	.....	.....	.....	.....	.....	.....	fine.
NORTH GERMAN LLOYD.																		
S. S. Kronprinz F. Wilhelm, N 45° 01′ W. 42° 20′	30.05	763.3	41.0	5.0	.....	wnw.	.....	.....	5	.....	6	.....	wnw.	0	0	6	w.	fair.
S. S. Main, N. 40° 54′, W. 62° 20′*	29.68	753.9	55.4	13.0	.....	sse.	.....	.....	3	.....	10	.....	s.	12h'r	12h'r	high	ssw.	raining.
S. S. Mosel, N. 47° 16′, W. 33° 22′	29.87	758.7	53.4	11.9	.....	sw.	.....	.....	7	.....	10	.....	wsw.	3 h'r	3 h'r	h'vy	sw.	hazy.
S. S. Neckar, N. 49° 23′ W 11° 37′	30.57	776.5	53.6	12.0	.....	se.	.....	.....	3	.....	7	.....	ese.	0	0	light	nw.	
S. S. Nurnburg S. 22° 21′, W. 32° 15′*	30.13	765.3	82.4	28.0	77	ne.	.....	.....	2	.....	4	.....	ne.	1 h'r	light	3	n.	fair.
S. S. Oder, New York, N. Y.	29.64	752.8	29.8	—1.2	.....	nw.	.....	.....	3	.....	3	.....	nw.	0	0	.....	.....	fair.
S. S. Ohio, Bremmerhaven, Germany	30.49	774.4	.....	.....	.....	wsw.	.....	.....	5	.....	4	.....	w.	0	0	.....	.....	fair.
S. S. Salier, N. 49° 57′, W. 22° 33′.	30.22	767.6	50.0	10.0	.....	sw.	.....	.....	8	.....	2	.....	sw.	0	0	long	wsw.	fair.
S. S. Strassburg, N. 41° 24′, W. 61° 00′	29.61	752.1	50.5	10.3	93	ssw.	.....	.....	6	.....	10	.....	ssw.	10 h'r	10 h'r	r'gh	ssw.	drizzling.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Belgic, N. 25° 00′, E. 119° 50′ †	30.28	769.9	56	13.3	87	ne.	.....	.....	6	.....	0	.....	.....	0	0	high	ne.	clear.
S. S. Gaelic, Yokahama, Japan†	30.31	769.1	45	7.2	76	se.	.....	.....	3	.....	3	.....	se.	.....	.....	.....	.....	clear.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, N. 33° 55′, W. 77° 06′†.	29.75′	755.6	.....	.....	.....	wsw.	.....	.....	6	.....	10?	.....	sw.	0	0	.....	.....	clear.?
S. S. Seminole, N. 35° 12′, W. 75° 15′†	29.62	752.3	62	16.7	88	w.	.....	.....	3	.....	10	.....	wnw.	3 h'r	light	long	sse.	squally.
OREGON IMPROVEMENT COMPANY.																		
S. S. Mississippi, Seattle, W. T†	29.67	753.6	35	1.7	80	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	clear.
S. S. Willamette, Seattle, W. T†*	29.55	750.6	43	6.1	92	calm	.....	.....	0	.....	2	.....	ne.	0	0	.....	.....	d. clouds.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. City of Chester, N 43° 12′, W. 124° 40′*†.	29.65	753.1	48	8.9	85	wsw.	.....	.....	3	.....	10	.....	w.	.....	.....	sm'h	.....	rainy.
S. S. Oregon, N. 44° 23′ W. 124° 08′ †	29.63	752.6	44	6.7	84	nw.	.....	.....	3	.....	8	.....	nw.	.....	.....	.....	.....	fair.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, San Francisco, Calf.	29.74	755.4	48	8.9	78	se.	.....	.....	3	.....	8	.....	s.	.....	.....	.....	.....	cloudy.
S. S. G. W. Elder, N. 37° 58′, W. 123° 30′†	29.73	755.1	48	8.9	.....	se.	.....	.....	5	.....	7	.....	se.	0	0	light	var.	cloudy.
S. S. Idaho, N. 45° 53′, W. 124° 04′†	29.57	751.1	43	6.1	83	n.	.....	.....	4	.....	0	.....	.....	.....	.....	light	w.	clear.
S. S. Orizaba, N. 33° 42′ W. 118° 14′†	29.97	761.2	53	11.7	73	se.	.....	.....	4	.....	.....	.....	se.	0	0	light	se.	overcast.
S. S. State of California, Portland, Oregon†	29.59	751 6	35	1.7	100	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	.....	clear.
S. S. Victoria, Nanaimo, Vancouver's Island†	29.67	753.5	32	0.0	90	calm	.....	.....	0	.....	10	.....	.....	.....	.....	.....	.....	overcast.
PACIFIC MAIL STEAM SHIP COMPANY.																		
S. S. Australia, S. 33° 50′, E. 157° 20′	29.76	755.9	72	22.2	90	e.	.....	.....	3	.....	2	.....	e.	3 h'r	3 h'r	sm'h	e.	clear.
S. S. City of New York, N. 36° 30′, W. 125° 50′.†	29.88	758.9	52	11.1	86	var.	.....	.....	2	.....	8	.....	.....	light	light	light	nw.	cloudy.
S. S. City of Pekin, N. 33° 06′ W. 120° 07′†.	29.88	758.9	54	12.2	87	sse.	.....	.....	6	.....	2	.....	se.	0	0	mod.	sse.	fair.
S. S. City of Rio de Janeiro, Panama, Panama†	30.11	764.8	83	28.3	69	n.	.....	.....	2	.....	2	.....	n.	0	0	sm'h	.....	fine.
S. S. City of Sydney, Sydney, N. S. W†	29.90	759.4	68	20.0	84	ene.	.....	.....	3	.....	2	.....	ne.	0	0	sm'h	.....	clear.
S. S. City of Tokio, N. 34° 49′. E. 160° 49′†	29.90	759.4	51	10.6	72	nw.	.....	.....	7	.....	8	.....	nw.	8 h'r	8 h'r	high	nnw.	squally.
S. S. Colima, N 19° 16′ W. 105° 07′†	29.87	758.7	67	19.4	79	nnw.	.....	.....	3	.....	3	.....	nnw.	0	0	h'vy	cross	clear.
S. S. Colon, Aspinwall, Panama†	30.04	763.0	80	26.7	.....	nne.	.....	.....	3	.....	5	.....	nne.	.....	.....	.....	.....	cloudy.
S. S. South Carolina, Panama, Panama.†	29.97	761.2	74	23.3	72	n.	.....	.....	3	.....	1?	.....	ne.	0	0	sm'h	.....	cloudy.?
S. S. Zelandia, N. 21° 18′, W. 157° 30′	29.98	761.5	68	20.0	76	ne.	.....	.....	1	.....	0	.....	.....	.....	.....	mod.	ne.	fine.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
QUEBEC STEAM S IP COMPANY.																		
S. S. Muriel, N. 27° 06′, W. 65° 52′*	.....	.....	.....	.....	.....	ssw.	.....	.....	3	.....	0	.....	.....	0	0	mod.	n.	fair.
S. S. Bermuda, S. John, W. I†	30.20	767.1	75	23.9	.....	ene.	.....	.....	1	.....	2	.....	ene.	0	0	.....	.....	
RED STAR LINE.																		
S. S. Nederland, N. 40° 18′, W. 63° 37′*†	30.29	769.4	59	15.0	.....	sw.	.....	.....	4	.....	10	.....	sw.	sh'rs	sh'rs	mod.	sw.	threatening.
S. S. Rhynland, N. 43° 15′ W. 43° 04′	30.26	768.6	43	6.1	75	wnw.	.....	.....	5	.....	8	.....	wnw.	0.3	8.	high	w.	cloudy.
S. S. Vaderland, N. 49° 42′, W. 6° 52′	30.43	772.9	54	12.2	.....	ene.	.....	.....	1	.....	0	.....	.....	0	0	long	wnw.	clear.
S. S. Waesland, N. 48° 27′ W. 23° 52′	30.26	768.6	55	12.8	.....	ssw.	.....	.....	5	.....	1	.....	sw.	0	0	mod.	wnw.	clear.
ROTTERDAM LINE.																		
S. S. Schiedam, Retterdam, Hollands.*	30.54	775.7	52.3	11.3	84	calm	.....	.....	0	.....	.....	.....	.....	.....	.....	.....	.....	
S. S. W. A. Scholten, Rotterdam, Holland*	30.20	767.1	63.7	17.6	86	nw.	.....	.....	6	.....	4	.....	nw.	0	0	.....	.....	
THINGVALLA LINE.																		
S. S. Thingvalla, N. 53° 10′, W. 28° 37′†.....	29.71	754.6	51.8	11.0	.....	sw.	.....	.....	6	.....	10	.....	sw.	8 h'r	8 h'r	hv'y	sw.	covered.
WARREN LINE.																		
S. S. Iowa, N. 50° 53′, W. 13° 20′.*†	30.60	777.2	50	10.0	.....	s.	.....	.....	4	.....	3	.....	s.	0	0	light	wnw.	clear.
WHITE STAR LINE.																		
S. S. Celtic, N. 48° 58′, W. 29° 39′*†	29.70	754.4	52	11.1	93	s.	.....	.....	6	.....	10	.....	s.	4 h'r	driz.	hv'y	wnw.	cloudy.
S. S. Germanic, N. 40° 27′, W 59° 48′*†	29.89	759.2	57	13.9	.....	sw.	.....	.....	5	.....	10	.....	sw.	h'vy	h'vy	sm'h	ssw.	raining.
WILSON LINE.																		
S. S. Romano, N. 41° 43′, W. 48° 01′*†	30.27	768.8	43	6.1	.....	calm	.....	.....	0	.....	1	.....	w.	0	0	mod.	w.	clear.
S. S. Salerno, New York, N. Y†	29.64	752.8	.....	.....	.....	w.	.....	.....	3–4	.....	9	.....	w.	.....	.....	.....	.....	cloudy.
W NSOR LINE.																		
S. S. Norman, N. 42° 10′, W. 70° 20′	29.56	750.8	.....	.....	.....	nw.	.....	.....	9	.....	.....	.....	nw.	0	0	sm'h	.....	cloudy.
MISCELLANEOUS.																		
Schr. Addie Fuller, Cedar Keys, Florida†	30.07	763.8	71	21.7	95	sw.	.....	.....	4	0	6 ks;d	.....	sw.	0	0	.....	.....	fair.
Bk. Adelaide, S. 9° 36′, W. 34° 58′*†	30.08	764.0	81	27.2	.....	ese,.	.....	.....	5	.....	1	.....	ese.	0	0	sm'h	se.	fair.
Bk. Alpha, entrance Del. Bay*†	29.72	454.9	42	5.6	.....	ne.	.....	.....	3	.....	10	.....	n.	6 h'r	h'vy	sm'h	.....	rainy.
Schr. Annie M. Law, N. 41° 33′ W. 63° 30′*†	29.60	751.8	49	9.4	78	sw.	.....	.....	1	.....	10	.....	.....	12 h'r	light	long	s.	raining.
Schr Annie M. Smull, S. 4° 33′. W. 31° 33′*†	30.05	763.3	89	31.7	.....	se.	.....	.....	.....	.....	2	.....	se.	0	0	....	se.	clear.
Bk. Bergenseren, N. 33° 54′, W. 38° 15′†	30.14	765.5	.....	.....	.....	n.	.....	.....	5	.....	.....	.....	n.	0	0	5	ese.	foggy.
Bk Celestina, N. 26° 51′ W. 38° 23′*†	30.15	765.8	.....	.....	.....	wnw.	.....	.....	1	.....	3	.....	.....	0	0	con.	.....	fair.
Bk. E. L. Pettingill, S. 33° 38′ W. 86° 18′†	30.30	769.6	.....	.....	.....	ese.	.....	.....	3	.....	2	.....	se.	0	0	sm'h	s.	clear.
S. Enoch Train, Bremerhaven, Germany*	30.41	772.4	.....	.....	.....	w.	.....	.....	4	.....	3	.....	wnw.	0	0	.....	.....	hazy.
U.S.F.C.S. Fish Hawk, Annapolis, Md†	29.78	756.4	47	8.3	77	nne.	.....	.....	2	.....	10	.....	calm	0.58	22.4	.....	.....	cloudy.
Bk. Freya, N. 36° 52′, W. 75° 32′	.....	.....	48	8.9	.....	nnw.	.....	.....	6	.....	hz	.....	.....	0	0	sm'h	.....	hazy.
S. Grecian, N. 11° 06′, W. 26° 46′*†	30.08	764.0	73	22.8	.....	ene.	.....	.....	5	.....	0	.....	.....	0	0	mod	ne.	hazy..
Bk. Geo. Booth, S. 33° 43′, W. 10° 30′*†	30.10	764.5	.....	.....	.....	nw.	.....	.....	3	.....	0	.....	.....	0	0	sm'h	ssw.	
Bk. Granville, S. 6° 08′, W. 31° 20′*†	30.15	765.8	.....	.....	.....	e.	.....	.....	3	.....	.....	.....	.....	0	0	sm'h	.....	clear.
Schr. Henry Denison, Georgetown, Brit. Guiana.†	29.94	760.5	.....	.....	.....	ne.	.....	.....	3	.....	7	.....	ne.	driz	driz	.....	.....	cloudy.
Bk. Johanne Auguste, S 12° 46′. E. 87° 52′*†	29.77	756.1	.....	.....	.....	e.	.....	.....	4	.....	3	.....	ese.	3 h'r	h'vy	long	se.	fair.
Bkt. Josephine, N. 40° 44′, W. 67° 39′*†	29.72	754.9	52	11.1	66	w.	.....	.....	1	.....	10	.....	.....	16 h'r	light	long	ssw.	light rain.
Bk. Kate Cann, N. 47° 53′, W. 23° 00′	.....	.....	.....	.....	.....	nnw.	.....	.....	5	.....	10	.....	nw.	2 h'r	2 h'r	sm'h	nw.	squally.
Bkt. Kryolith, N. 41° 40′, W. 31° 28′*†	30.10	764.5	.....	.....	.....	ssw.	.....	.....	6	.....	10	.....	ssw.	0	0	mod.	s.	hazy..
S. S. Lamperts, N. 47° 44′, W. 25° 49′*	30.12	765.0	57.0	13.9	87	ssw.	.....	.....	6	.....	10	.....	.....	.....	.....	4	.....	overcast.
Schr. Maggie Abbott, Baracoa, Cuba, W. I.*†	30.10	764.5	.....	.....	.....	ene.	.....	.....	4	.....	.....	.....	ene.	0	0	.....	.....	clear.
S. S. Malabar, N. 44° 04′, W. 37° 29′*†	30.02	762.5	.....	.....	.....	nnw.	.....	.....	6	.....	.....	.....	n.	sh'rs	shr's	h'vy	w.	cloudy.
Bk. Peppina, N. 37° 27′, E. 10° 40′†	30.17	766.3	60	15.6	82	nnw.	.....	.....	3	.....	2	.....	n.	.....	.....	sm'h	.....	fair.
Bk. Pilgrim, S. 47° 27′, E. 55° 10′*†	30.10	764.5	.....	.....	.....	n.	.....	.....	3	.....	8	.....	nw.	0	0	long	wnw.	cloudy.
Schr. S. B. Hubbard, Jacksonville, Florida*†	30.11	764.8	70	21.1	.....	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	.....	clear.
Bkt. Spotless, N. 35° 06′, W. 65° 45′*†	30.00	762.0	.....	.....	.....	sw.	.....	.....	.....	.....	.....	.....	sw.	.....	.....	h'vy	sw.	squally.
Bk. Stella, S. 50° 14′, W. 59° 14′*	29.72	754.9	53.4	11.9	94	w.	.....	.....	3	.....	5	.....	w.	0	0	mod.	sw.	d. clouds.
Bk. Sunbeam, N. 30° 12′, W. 70° 08′*†	30.01	762.2	71	21.7	90	sw.	.....	.....	6	.....	8	.....	wsw.	0	0	mod.	sw.	threatening.
S. S. Victoria J. Peed, N. 33° 14′, W. 79° 11′*†	29.65	753.1	.....	.....	.....	wsw.	.....	.....	3	.....	9	.....	w.	.....	.....	.....	.....	rainy.
Bg. Wauburn, S. 18° 48′ E. 0° 19′*†	30.10	764.5	.....	.....	.....	sse.	.....	.....	5	.....	0	.....	.....	.....	.....	light	s.	
S. Wm. Woodbury. Bremerhaven, Germany*†	30.24	768.1	54	12.2	26	w.	.....	.....	4	.....	1	.....	w.	.....	.....	.....	.....	

Data, as appearing in the International Bulletin of similar date.

Isobars in *black* exhibit atmospheric pressure at sea-level, and are charted from data as reported by the several observers.

Isotherms in *red* exhibit temperature of air, similarly charted.

Broken or dotted lines indicate that the lines so broken are doubtful.

Arrowe, when charted, fly with the wind and exhibit wind-direction and force.

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W. B. Hazen

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

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INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON MARCH 14, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours	.....	.....	30.38	771.6	64.4	18.0	82	sw.	.....	.....	3	.....	0	.....	.....	0	0	clear	Moiroud.
Algiers	.....	.....	30.43	773.0	60.1	15.6	70	ne.	.....	.....	1	.....	0	.....	.....	0	0	clear	Nicolas.
La Calle	.....	.....	30.39	771.9	64.0	17.8	74	sw.	.....	.....	1	.....	3	.....	.. ..	0	0	pretty fair	Fonfrède.
Tunis	.....	.....	30.35	770.9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.39	772.0	68.0	20.0	17	n.	.....	.....	1	.....	0	.....	.....	0	0	clear	Dumas.
Tebessa	.....	.....	30.39	771.8	51.4	10.8	50	ese.	.....	.....	3	.....	3	.....	.....	0	0	pretty fair	Derché.
Geriville	.....	.....	.....	.....	51.4	10.8	43	s.	.....	.....	2	.....	3	.....	.....	0.063	1.6	pretty fair	Lonchamp.
Laghouat	.....	.....	30.47	773.8	59.0	15.0	41	e.	.....	.....	2	.....	2	.....	.....	0	0	fair	Herbin.
Biskra	.....	.....	30.40	772.1	69.8	21.0	31	sw.	.....	.....	2	.....	4	.....	.....	0	0	cloudy	Malau.
Australian.																			
Melbourne, Victoria	29.89	759.2	29.98	761.5	59.9	15.5	68	s.	15	6.7	.....	.....	2	.....	.....	0.2	5.	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Prof. Ivan Stozir
Cracow, I. R Observatory	29.87	758.7	30.43	772.8	57.2	14.0	40	s.	.....	.....	1	.....	0	.....	.....	0	0	.....	Dr. Wierzbiski.
Eperies	29.67	753.6	30.46	773.7	46.8	8.2	70	w.	6.9	3.1	.....	.....	10	.....	.....	0	0	.....	Dr. Wierzbiski.
Gratz	29.45	748.1	30.35	770.9	48.2	9.0	67	calm	.....	.....	0	.....	10 s	.....	se.	0.012	0.3	.....	Julius Mikolik.
Hermannstadt	29.16	740.7	30.43	772.8	55.2	12.9	52	ne.	.....	.....	2	.....	0	.....	.....	0	0	.....	Andreas Rospini.
Kremsmunster, Obs'y	28.83	732.3	30.29	769.4	49.3	9.6	44	nnw.	.....	.....	4	.....	10	.....	.....	0	0	.....	Prof. A. Gottschling.
Lemberg	29.09	738.9	30.45	773.5	51.8	11.0	60	ene.	.....	.....	1	.....	0	.....	.....	0	0	clear	The Staff.
Pola	29.27	743.5	30.28	769.0	47.8	8.8	56	ne.	.....	.....	2	.....	5	.....	.....	0	0	.....	Dr. T. Stanecki.
Szanthmar	30.27	768.9	30.39	771.8	59.4	15.2	47	ne.	.....	.....	1	.....	0	.....	.....	0	0	.....	I. R. Hydrographic Office.
Szegedin	29.86	758.4	30.33	770.3	48.4	9.1	66	nw.	.....	.....	3	.....	8	.....	.....	0	0	.....	Joseph Midlinszky, S. J.
Trieste	30.07	763.7	30.35	770.9	54.0	12.2	42	nw.	.....	.....	2	.....	0	.....	.....	0	0	.....	Karl Stancel.
Vienna	30.32	770.1	30.42	772.7	60.4	15.8	42	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	Rieder.
	29.74	755.4	30.47	773.8	56.1	13.4	48	nw.	.....	.....	2	.....	0	.....	.....	0	0	.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	30.03	762.7	30.13	765.3	51.6	10.9	70	s.	14	6.3	.....	.....	3	.....	.....	0.120	3.0	blue sky	W. Boswell.
Armagh, Observatory	30.04	763.0	30.29	769.4	49.9	9.9	74	ssw.	19	8.5	.....	.....	10	.....	.....	.....	.....	overcast	S. Call.
Bidston, Liverpool Obs'y	.....	.....	30.40	772.1	49.2	9.6	70	w.	5	2.2	.....	.....	9	.....	.....	.....	.....	overcast	John Hartnup.
Bolton, Sharples	29.84	757.9	30.38	771.6	46.6	8.1	58	wsw.	18	8.0	.....	.....	8	.....	.....	.....	.....	d. clouds	Thomas Mackereth.
Bradford, Yorkshire	29.93	760.2	30.33	770.4	50.5	10.3	61	sw.	.....	.....	1	.....	2	.....	.....	0	0	blue sky	[A.S. J.McLandsborough, F.R
Bridgetown, Barbadoes	30.03	762.7	30.06	763.5	82.0	27.8	67	ne.	.....	.....	1	.....	6	.....	.....	.....	.....	gloomy	Pvt. J. Surgenor, A. H.C.
Cardington	.....	.....	30.39	771.9	54.0	12.2	68	w.	.....	.....	0.2	.....	1	.....	.....	.....	.....	blue sky	John McLaren.
Chatham, School M. E.	30.32	770.1	30.45	773.4	59.0	15.0	90	sw.	.....	.....	1	.....	1	.....	.....	.....	.....	d. clouds	Lance Opl. G.A. Pickles.
Falmouth, Observatory	30.19	766.8	30.43	772.9	51.1	10.6	78	se.	.....	.....	1	.....	6	.....	.....	.....	.....	misty	The Staff.
Fort Napier, Natal	27.68	703.1	29.89	759.2	74.0	23.3	50	calm	.....	.....	0	.....	3	.....	.....	.....	.....	blue sky	Pvt. E. K. Annis, A.H.C.
Free Town, Sierra Leone	29.58	751.3	29.81	757.2	88.0	31.1	69	nw.	.....	.....	1	.....	3	.....	.....	.....	.....	d. clouds	Sergt. John Robinson.
Galway, Queen's College	.....	.....	30.22	767.6	.....	.....	.....	sw.	.....	.....	2	.....	8	.....	.....	0.01	0.3	gloomy	J. O'Donaghue.
Gibraltar, Mediterranean	30.24	768.1	30.30	769.6	62.5	16.9	77	e.	.....	.....	2	.....	6	.....	.....	.....	.....	d. clouds	Cpl. O. Baldwin.
Glasgow, Observatory	30.03	762.7	30.23	767.8	48.2	9.0	62	wsw.	.....	.....	5	.....	10 k	.....	.....	.....	.....	gloomy	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	30.28	769.1	30.45	773.4	57.7	14.3	55	ssw.	.....	.....	1	.....	2	.....	.....	.....	.....	blue sky	The Staff.
Guernsey	30.11	764.8	30.41	772.4	55.0	12.8	73	ne.	.....	.....	1	.....	2	.....	.....	.....	.....	blue sky	A. Collenette, F. M. S.
Kew, Observatory	30.42	772.7	30.45	773.4	52.7	11.5	66	s.	4	1.8	.....	.....	0	.....	.....	.....	.....	hazy	The Staff.
Leicester, Museum	30.15	765.8	30.41	772.4	52.0	11.1	66	sw.	.....	.....	1	.....	4	.....	.....	.....	.....	blue sky	J. C. Smith.
Malta, Mediterranean	30.10	764.5	30.17	766.3	61.2	16.2	61	ne.	.....	.....	3	.....	3	.....	.....	.....	.....	blue sky	I. H. Whysall.
Nassau, Bahamas	30.14	765.5	30.19	766.8	73.0	22.8	67	ne.	.....	.....	2	.....	5	.....	.....	.....	.....	d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.89	759.2	30.42	772.7	53.0	11.7	63	ssw.	.....	.....	2	.....	3	.....	.....	.....	.....	d. clouds	John Mac Emall.
Oxford, Radcliffe Obs'y	30.20	767.1	30.43	772.9	55.0	12.8	55	sw.	.....	.....	1	.....	0	.....	.....	.....	.....	misty	The Staff.
Plymouth	30.35	770.9	30.42	772.7	53.3	11.8	76	se.	.....	.....	3	.....	5	.....	.....	.....	.....	d. clouds	John Merrifield.
Sandwick Manse, Orkneys	.....	.....	29.95	760.7	49.9	9.9	74	sw.	21	9.4	.....	.....	5	.....	.....	.....	.....	d. clouds	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	30.12	765.0	30.18	766.6	49.8	9.9	52	nne.	.....	.....	2	8 cs	0	.....	.....	.....	.....	d. clouds	W. H. Lyne.
Sheffield	30.10	764.5	30.38	771.6	53.8	12.1	63	sw.	.....	.....	1	.....	1	.....	.....	0	0	blue sky	W. F. Cooper.
Sillioth Rectory	30.29	769.4	30.32	770.1	46.1	7.8	79	wsw.	.....	.....	4	.....	10	.....	.....	0	0	overcast	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	30.39	771.9	46.1	7.8	73	wsw.	17	7.6	.....	.....	10	.....	.....	.....	.....	overcast	R. S. J. Perry.
Strafield Turgiss	30.23	767.8	30.46	773.7	56.3	13.5	61	sw.	.....	.....	2	.....	0	.....	.....	.....	.....	blue sky	Rev. C. H. Griffiths, F.M.S.
Truro, Royal Institution	30.33	770.4	30.38	771.6	58	14.4	69	s.	.....	.....	2	.....	5	.....	.....	.....	.....	d. clouds	W. Newcombe.
Valencia, Observatory	30.28	769.1	30.31	769.9	53.7	12.1	82	s.	25	11.2	.....	.....	6	.....	.....	.....	.....	d. clouds	The Met'g'l Office.
Canadian.																			
Bathurst, N. B	.....	.....	.....	.....	25.0	— 3.9	.....	s.	4	1.8	.....	.....	10 s	.....	.....	0.10	2.5	cloudy	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.26	743.2	29.31	744.5	23	— 5.0	99	n.	24	10.7	.....	.....	10 n	.....	calm	0.100	2.5	light snow	H. J. Cundall, C. E.
Chatham, N. B	29.48	748.8	29.55	750.6	23	— 5.0	87	nw.	15	6.7	.....	8 k	2 ks	nw.	nw.	0.21	5.3	fair	G. A. Blair.
Cornwall, Ontario	29.85	758.2	30.02	762.5	5.2	—14.9	84	n.	.....	.....	1	7 cs	0	n.	.....	0	0	fair	James Smith, M. A.
Dalhousie, N. B	29.39	746.5	29.62	752.3	24.0	— 4.4	.....	w.	.....	.....	1	.....	10 ks	.....	.....	0.30	7.6	cloudy	H. A. Johnson.
Father Point, Quebec	29.69	754.1	29.72	754.9	21	— 6.1	83	n.	15	6.7	.....	.....	10 n	.....	calm	0.60	15.2	cloudy	J. McWilliams.
Fort Garry, Manitoba	29.15	740.4	30.05	763.3	10	—12.2	96	se.	10	4.5	.....	5 k	5 ks	se.	se.	0	0	cloudy	James Stewart.
Fredericton, N. B	29.52	749.8	29.59	751.6	27.0	— 2.8	64	nw.	9	4.0	.....	0	0	.....	.....	0.040	1.0	clear	Prof. Harrison.
Granton, Ontario	28.97	735.8	30.14	765.5	23.3	— 4.8	96	nw.	.....	.....	1	.....	10 n	.....	.....	Inap.	Inap.	cloudy	James Grant.
Halifax, N. S	29.15	740.4	29 28	743.7	27	— 2.6	88	nw.	13	5.8	.....	10 k	0	n.	.....	0.062	1.6	cloudy	A. Allison.
Hamilton, Ontario	29.73	755.1	30.15	765.8	22.7	— 5.2	86	ne.	.....	.....	1	10 cs	0	e.	.....	Inap.	Inap.	snowing	Geo. Dickson, B. A.
Kingston, Ontario	29.78	756.4	30.15	765.8	15	— 9.4	76	ne.	6	2.7	.....	2 ck	0	nw.	.....	0	0	fair	A. P. Knight, M. A.
Little Glace Bay, N. S	.....	.....	.....	.....	27.3	— 2.6	96	ne.	.....	.....	4	.....	10 n	.....	.....	0.10	2.5	light snow	O. H. Rigby.
Montreal, Quebec	29.81	757 2	30.04	763.0	9	—12.8	63	w.	17	7.6	.....	5 c	2 s	w.	.....	0	0	fair	C. H. McLeod, C. E.
Parry Sound, Ontario	29.46	748.3	30.22	767.6	11	—11.7	61	n.	13	5.8	.....	2 k	2 ks	nw.	nw.	0	0	fair	Rev. R. Mosley.
Peterboro, Ontario	29.37	746.0	30.16	766.1	26.3	—3.2	88	nw.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. Dixon, B. A.
Port Dover, Ontario	29.43	747.5	30.17	766.3	22	— 5.6	100	calm	0	0	.....	.....	10 n	.....	.....	0.04	1.0	threatening	H. Morgan.
Port Stanley, Ontario	29.49	749.0	30.17	766.3	27	— 2.8	80	w.	8	3.6	.....	.....	10 n	.....	nw.	0.02	0.5	cloudy	M. Payne.
Quebec, Quebec	29.49	749.0	29.83	757.7	14	—10.0	83	n.	.....	.....	5	2 k	2 s	n.	n.	0.07	1.8	fair	Capt. Ashe, R. N.
Rockliffe, Ontario	29.72	754 9	30.22	767.6	7	—13.9	83	n.	6	2.7	.....	.....	8 ks	.....	nw.	Inap.	Inap.	cloudy	W. H. McIntyre.
Saugeen, Ontario	29.42	747.3	30.19	766.8	18	— 7.8	100	ne.	1	0.4	.....	.....	10 s	.....	.....	0.06	1.5	cloudy	
St. Andrews, N. B	29.49	749.0	29.54	750.3	26	— 3.3	87	nnw.	7	3.1	.....	0	0	.....	.....	0.06	1.5	clear	
St. John, N. B	29.40	746.7	29.57	751.1	26.0	— 3.3	87	ne.	16	7.2	.....	.....	10 k	.....	.....	0.020	0.5	cloudy	G. Murdock, C. E.
St. Pierre, N. F	.....	.....	28.94	735.1	23.0	— 5.0	.....	n	.....	.....	4	.....	.....	.....	.....	0	0	.....	N. F. Land, Com't.
Stratford, Ontario	28.79	731.3	30.15	765.8	21.5	— 5.8	96	calm	0	0	.....	.....	10 s	.....	.....	0.050	1.3	cloudy	C. I. Macgregor, M. A.
Sydney, C. B	29.07	738.4	29.13	739.9	26	— 3.3	96	n.	14	6.3	.....	.....	10 n	.....	.....	0.30	7.6	light snow	T. C. Hill, C. E.
Toronto, Ontario	29.79	756.7	30.20	767.1	20	— 0.7	76	n.	5	2.2	.....	.....	10 n	.....	nw.	Inap.	Inap.	light snow	Magnetic Observatory.
Windsor, N. S	29.23	742.4	29.33	745.0	26.5	— 3.1	94	nw.	14	6.3	.....	.....	10 n	.....	.....	Inap.	Inap.	snowing	Prof. W. R. Butler.
Woodstock, Ontario	29.03	737.3	30.16	766.1	22.4	— 5.3	77	sw.	13	5.8	.....	1 c	9 ks	.....	.....	0	0	cloudy	Prof. Wolverton
Yarmouth, N. S	29.40	746.7	29.47	748.5	28	— 2.2	80	n.	11	4.9	.....	.....	10 k	.....	n.	0.04	1.0	light snow	Lt. F. E. Wilmot, R. N.
Sub-series.																			
St. Johns, Newfoundland	29.33	745.0	29.58	751.3	39	3.9	100	s.	2	0.9	.....	.....	10 n	.....	.....	0.40	10.2	raining	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.02	762.5	30.05	763.3	69.0	20.6	78	e.	6.6	3.0	.....	0	0	.....	.....	0.120	3.0	hazy	John Duthie.
Cape Town, C. G. H. Obs'y	30.01	762.2	30.05	763.3	86.0	30.0	27	sse.	16	7.2	.....	0	2	.....	.....	0	0	.....	The Staff, for D. Gill.

STATIONS.	BAROMETER. Corrected for instrumental error and for temperature.		BAROMETER. Reduced to sea-level.		Temperature of the air.		Relative humidity.	WIND. Direction.	WIND. Velocity.		WIND. Force.	CLOUDS. Amount and kind. Upper.	CLOUDS. Amount and kind. Lower.	CLOUDS. Direction. Upper.	CLOUDS. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
CHINESE (*Sub-series*).																			
Hankow	30.11	764.8	30.39	771.9	53.1	11.7	90	s.			1		0			0	0		N. Titoushkin.
Zi-Ka-Wei, near Shanghai	30.17	766.4	30.20	767.0	40.4	8.0	86	s.	3.8	1.7			10			0	0	covered	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	30.34	770.5	30.38	771.7	52.0	11.1	78	w.	18	8			7						Oversergent Fischer.
Fanöe	30.35	770.8	30.37	771.3	45.9	7.7	88	wsw.			4		1						Overloerer Lauridsen.
Godthaab, Greenland	29.74	755.5	29.79	756.6	5.7	—14.6	96	sw.			4		10						S. Kleinschmidt.
Stykkisholm, Iceland	29.19	741.3	29.23	742.4	21.6	— 5.8	95	se.			0		10					snowing	A. O. Thorlacius.
Thorshavn	29.44	747.7	29.47	748.6	45.5	7.5	82	w.	38	17			8					raining	Overloerer Bergh.
Vestervig	30.19	766.8	30.28	769.1	45.3	7.4	90	sw.			4		0						Loearer Oesterboi.
FRENCH.																			
Agen, Normal School	29.79	756.7	30.37	771.4	59.0	15	84	calm			0		0			0	0	clear	M. Labroue, Director.
Alençon, Normal School	29.85	758.2	30.40	772.2	60.8	16	55	e.			1					0	0		M. Nicot, Director.
Arras, Engineer School	30.14	765.5	30.40	772.2	56.8	13.8	60	sse.			1					0	0		M. Klein, Commandant.
Avignon, Normal School	30.33	770.3	30.41	772.3	69.8	21	48	nne.			1		0			0	0	clear	M. Girand, Director.
Bar-sur-Seine	29.85	758.2	30.41	772.5	58.8	14.9	49	sw.			1		0			0	0	clear	M. Saillard, Director.
Beauvais, Normal School	30.19	766.9	30.47	773.9	54.1	12.3	51	e.			1		5			0	0	cloudy	M. Frère Eugène Marl.
Besançon, Normal School	29.45	748.0	30.36	771.1	55.8	13.2	75	ne.			1		0			0	0	clear	M. Gobin, Director.
Bordeaux, Observatory	30.06	763.6	30.32	770.2	63.0	17.2	52	ese.					0			0	0	clear	M. Rayet, Director.
Bourges, Normal School	29.84	757.8	30.40	772.2	61.7	16.5	41									0	0		M. Postel, Director.
Brest, Naval Observatory	30.15	765.8	30.39	771.9	61.5	16.4	71	calm			0		1			0	0	clear	M. de Kermaree, Dir.
Caen, Normal School	30.32	770.1	30.39	772.0	58.6	14.8	56	s.			1		0			0	0	clear	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	30.04	763.1	30.36	771.1	62.6	17.0	52	calm			0		0			0	0	clear	M. Jadot, Director.
Charleville, Normal School	29.94	760 4	30.46	773.6	46.8	8.2	57	e.			3		0			0	0	clear	M. Grimard, Director.
Clermont-Ferrand Obs'y	29.02	737.0	30.36	771.2	64.0	17.8	49	n.			1		0			0	0	clear	M. Alluard, Director.
Cluny, Normal School	29.58	751.3	30.44	773.1	54.0	12.2	76	e.			1		0			0	0	clear	M. de Villemontée, Dir.
Commercy, Normal School	29.58	751.4	30.47	773.9	58.8	14.9	54	e.			1		0			0	0	clear	Dr. Coulet, Director.
Gap, Normal School	27.80	706.1	30.30	769.6	65.3	18.5	38	s.			2					0	0		M. Jeangirard, Director.
Gréasque, du. Rhone	29.24	742.8	30.36	771.1	65.8	18.8	36	nnw.			1		1		nw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.63	752.5	30.39	772.0	60.8	16	55	ese.			1		0			0	0	clear	M. Ablard, Director.
Guéret, Normal School	28.75	730.3	30.33	770.4	62.2	16.8	43	se.			1		0			0	0	clear	M. Rivoire, Director.
Lamballe, Normal School	30.12	765.0	30.39	771.9	59.0	15	62	e.			1		0			0	0	light fog	M. Ollitrault, Director.
Lescar, Normal School	29.74	755.5	30.30	769.7	68.7	20.4	35	sw.			1		0			0	0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	30.29	769.3	30.39	771.9	63.1	17.3	65	se.			1		0			0	0	clear	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.37	746.0	30.46	773.7	55.0	12.8	57	e.			1		0			0	0	hazy	M. André, Director.
Mans, Normal School	30.07	763.7	30.38	771.6	56.7	13.7	56	sse.			1		0			0	0	clear	M. Piboen, Director.
Marseille, Observatory	30.11	764.8	30.38	771.6	70.0	21.1	56	ssw.			1		1		sse.	0	0		M. Stephan, Director.
Montlouis l'Instituteur	25.09	637.3	29.93	760.3	52.3	11.3	46	sw.	7.4	3.3			0			0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	30.26	768.6	30.39	772.0	68.0	20	47	sw.			2		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.66	753.3	30.44	773 2	57.2	14.0	48	n.			1	0	28		n.	0	0	slightly cl'dy	M. Hasse, Director
Nantes, Observatory	30.23	767.9	30.43	772.9	63.3	17.4	59	ese.			0–2	1			n.	0	0		M. Larocque, Director.
Perpignan, Observatory	30.28	769.2	30.39	772.0	62.1	16.7	57	se.	9.4	4.2			0			0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.43	544.4			33.8	1.0		s.			1		1		w.	0	0	clear	Gen'l de Nansouty, Dir.
Privas, Normal School	29.32	744.7	30.39	772.0	60.1	15.6	70	n.			1	1	1	n.	n.	0	0	clear	M. Taillieu.
Puy de Dôme Obs'y, Summit	25.47	646.9			48.2	9.0	50	sw.			3		0			0.020	0.5	clear	M. Alluard, Director.
Rochefort, Naval Obs'y	30.33	770.4	30.36	771.2	63.0	17.2	74	s.			1		0			0	0	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	30.12	765.0	30.34	770.5	61.2	16.2	64	ese.			1		0			0	0	clear	M. Mouillot, Director.
Rodez, Normal School	28.22	716.8	30.36	771.2	62.2	16.8	46	e.			2		0			0	0	clear	M. Serger, Director.
Rouen, Normal School	30.39	771.8	30.43	773.0	60.1	15.6	55	ese.			1		0			0	0	clear	M. Platrier, Director.
Saint Maur, Observatory	30.26	768.7	30.43	772.9	61.2	16.2	43	ese.			1		0			0.004	0.1	clear	M. Renou, Director.
Toulouse, Observatory	29.65	753.0	30.38	771.6	65.5	18.6	48	se.			2		1		w.	0	0	clear	M. Baillaud, Director.
Versailles, Observatory	29.92	759.9	30.41	772.4	59.7	15.4	47	se.			1					0	0		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	30.15	765.8	30.44	773.2	62.1	16.7	42	ese.			1		0			0	0		M. Marié Davy, Director
GERMAN.																			
Bamberg	29.65	753.1	30.52	775.2	53.6	12.0	30	nw.			2	0	18			0	0		Prof. Dr. Hoh.
Berlin	30.27	768.8	30.45	773.4	55.0	12.8	57	sw.			1		1			0	0		Prof. Dr. Arndt.
Breslau	29.96	760.9	30.50	774.6	49.1	9.5	70	n.			1		8	nw.		0	0		*Royal University Obs'y.*
Carlsruhe	30.00	762.0	30.45	773.3	59.0	15	41	e.			1		0			0	0		Albert Senz.
Cassel	29.74	755.3	30.45	773.4	55.4	13.0	53	s.			2		0			0	0		Dr. H. Möhl.
Frankfort on the Main	30.10	764.4	30.47	773.9	50.1	13.4	48	e.			1		0			0	0		Physical Society.
Friedrichshafen	28.97	735.8	30.45	773.3	47.5	8.6	77	sw.			1		0			0	0		Wilhelm, Chief Tel.
Hamburg	30.38	771.6	30.47	774.0	52.9	11.6	75	wsw.			3		3			0.004	0.1		E. Preller.
Kiel	30.39	771.9	30.41	772.3	51.4	10.8	81	wsw.			2		5			0.008	0.2		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	30.09	764.3	30.52	775.2	52.2	11.2	50	sw.			2	0	0			0	0		H. Leppig, Asst.
Magdeburg	30.30	769.7	30.50	774.6	56.1	13.4	55	w.			1		0			0	0		Dr. Assmann.
Memel	30.25	768.4	30.30	769.6	39.9	4.4	92	sw.			3		0					foggy	Issermann.
Munich	28.61	726.7	30.50	774.8	54.1	12.3	50	ne.			2		0			0	0		Central Station
Neufahrwasser	30.37	771.5	30.39	771.9	47.3	8.5	71	wnw.			2		8			0	0		A. Lothes.
Neustadt, Palatinate	29.94	760.4	30.47	774.0	54.1	12.3	51	ene.			1		2			0	0		Dicknether.
Stuttgart	29.50	749.2	30.39	772.0	59.0	15	44	ne.			1		0			0	0		Prof. Dr. Schoder
Wustrow	30.41	772 3	30.43	772.9	43.7	6.5	99	wsw.			4	0	58			0	0		Profs. Brandes & Reimer.
GREEK.																			
Athens	29.80	756.9	30.20	767.0	57.2	14.0		ne.			3.0		0			0	0		Schmidt & Wourlisch.
INDIAN.																			
Bellary	28.42	721.9			96.0	35.6	15	se.	4.3	1.9		0	0			0	0	blue sky	
Kurrachee	30.00	762.0	30.05	762.3	76.7	24.8	80	wsw.	23	10.3			8	w.		0	0	d. clouds	
Deesa	29.48	748.8	29.95	760.6	91.6	33.1	35	w.	10.4	4.6			9	nw.	nw.	0	0	d. clouds	
Bombay	29.89	759.1	29.92	760.0	83.5	28.6	73	wnw.	7	3.1			1	wnw.		0	0	d. clouds	
Poona, Yarrowda	28.04	712.1	29.83	757.6	98.6	37.0	10	wsw.	17	7.6			1	wnw.		0	0	d. clouds	
Belgaum	27.37	695.3	29.84	757.9	92.4	33.6	11	ne.	5	2.2			0			0	0	misty	
Lahore	29.21	742.0	29.95	760.8	83.0	28.3	19	nw.	1.5	0.7			2			0	0	blue sky	
Roorkee	29.03	737.4	29.94	760.3	80.8	27.1	23	w.	2.2	1.0			9			0	0		
Agra	29.40	746.8	29.96	761.1	88.0	31.1	17	s.	1.7	0.8			0			0	0		
Nagpur	28.85	732.9	29.87	758.6	96.7	35.9	18	sw.	4.5	2.0			2	sw.		0	0	d. clouds	
Jubbulpore	28.61	726.6	29.94	760.5	91.5	33.1	11	ne.	1.7	0.8			3		s.	0	0	d. clouds	
Lucknow	29.50	749.2	29.87	758.6	87.1	30.6	15	wnw.	5.6	2.5			8	wnw.		0	0	misty	
Allahabad	29.64	752 7	29.94	760.6	86.7	30.4	23	calm	2.0	0.9			7	sw.		0	0	d. clouds	
Patna	29.77	756.1	29.96	760.9	84.6	29.2	25	nw.	3.7	1.6			4	nw.	nw.	0	0	d. clouds	
Hazaribagh	27.91	709.0	29.90	759.5	84.8	29.3	25	nw.	7.9	3.5			0			0	0	blue sky	
Cuttack	29.85	758.3	29.93	760.3	89.1	31.7	48	se.	0.5	0.2			0			0	0	blue sky	
Calcutta, Alipore	29.90	759.5	29.92	760.0	83.6	28.7	47	wsw.	4.0	1.8			0			0	0	blue sky	
Dhubri	29.82	757.3	29.94	760.4	78.6	25.9	39	calm	3.0	1.3			0			0	0	blue sky	
Chittagong	29.90	759.5	29.99	761.8	80.7	27.1	57	wsw.	2.6	1.2			0			0	0	blue sky	
Sibsagar	29.62	752.4	29.96	761.0	75.1	23.9	72	ne.	2.3	1.0			0			0	0	blue sky	
Jeypore	28.52	724.4	29.95	760.8	86.2	30.1	30	calm	2.8	1.2			7		s.	0	0	d. clouds	
Zanzibar, Africa	29.85	758.2			88.2	31.2	56	wsw.	5.6	2.5			4			0	0	d. clouds	
Trichinopoly	29.66	753.4			93.3	34.1	34	e.	2	0.9			0			0	0	blue sky	
ITALIAN.																			
Udine	30.00	762.0	30.41	772.4	61.9	16.6	40	nw.	1.3	0.6			0			0	0		Prof. Giovanni Clodig.
Milan	29.95	760.8	30.47	774.0	59.9	15.5	39	ne.	2.5	1.1			0			0	0		Prof. Schiaparelli.
Padua	30.34	770.6	30.45	773.4	59.5	15.3	34	ese.	1.8	0.8			0			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.55	750.5	30.46	773.6	59.9	15.5	52	n.	2.5	1.1			8			0	0		Prof. P. F. Denza.
Genoa	30.21	767.2	30.40	772.1	63.7	17.6	40	n.	8.1	3.6			c			0	0		Prof. G. M. Garibaldi.
Mondovi	28.54	724.9	30.40	773.7	56.5	13.6	54	n.			2		8	w.		0	0		Prof. D. C. Bruno.

STATIONS.	BAROMETER. Corrected for instrumental error and for temperature.		BAROMETER. Reduced to sea-level.		Temperature of the air.		Relative humidity.	WIND. Direction.	WIND. Velocity.		WIND. Force.	CLOUDS. Amount and kind.		CLOUDS. Direction.		Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
												Upper.	Lower.	Upper.	Lower.				
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
ITALIAN.—Continued.																			
Pesaro	30.38	771.6	30.43	772.8	54.7	12.6	57	n.	9.8	4.4	.....	.....	0	.....	.....	0	0	.....	Prof. Luigi Guidi.
Florence	30.11	764.9	30.37	771.4	63.7	17.6	20	ne.	.....	.....	6	.....	.....	.....	.....	0	0	.....	Prof. Costantino Pitter.
Leghorn	30.21	767.4	30.30	769.6	66.0	18.9	25	ene.	8.7	3.9	.....	.....	0	.....	.....	0	0	.....	Prof. P. Monte.
Rome	30.12	765.1	30.30	769.5	65.1	18.4	25	nnw.	2.5	1.1	.....	.....	0	.....	.....	0	0	.....	Prof. P. S. Ferrari.
Lecce	29.98	761.5	30.24	768.0	60.1	15.6	48	wnw.	26.2	11.7	.....	.....	0	.....	.....	0	0	.....	Prof. C. de Giorgi.
Cosenza	29.36	745.8	30.26	768.5	60.1	15.6	73	wnw.	4.3	1.9	.....	.....	0	.....	.....	0	0	.....	Prof. D. Conti.
Cagliari	30.08	764.0	30.27	768.9	63.1	17.3	49	s.	.....	.....	2	.....	1	.....	.....	0	0	.....	Prof. A. Pacinotti.
Palermo	30.01	762.3	30.26	768.7	63.9	17.7	55	ne.	5.6	2.5	.....	.....	0	.....	.....	0	0	.....	Prof. G. Ciacciatore.
Syracuse	30.15	765.8	30.20	767.0	58.3	14.6	78	e.	12.5	5.6	.....	.....	3	e.	.....	0	0	.....	Prof. Vincenzo Guiliano.
Sub-series.																			
Naples, S. It	29.73	755.1	30.25	768.4	63.3	17.4	32	ne.	8.7	3.9	.....	.....	1	ne.	.....	0	0	.....	Prof. T. Brioschi.
Stelvio	22.47	570.7	.....	.....	35.2	1.8	46	se.	.....	.....	2	.....	0	.....	.....	0	0	clear	Prof. P. F. Denza.
Valdobbia	22.52	572.0	.....	.....	34.7	1.5	44	e.	.....	.....	2	.....	0	.....	.....	0	0	clear	Prof. P. F. Denza.
JAPANESE.																			
Aomori	30.12	765.0	30.16	766.0	37.0	2.8	71	s.	15.5	6.9	.....	.....	10 ks	.....	.....	0	0	overcast	K. Ogawa.
Hakodate	30.09	764.3	30.10	764.5	38.0	3.3	76	sw.	6.0	2.7	.....	.....	10	.....	.....	0	0	overcast	
Hiroshima, I. M. Obs'y	30.27	768.8	30.28	769.1	37.4	3.0	81	nne.	0.8	0.4	.....	0	0	.....	.....	0	0	clear	K. Sasaki.
Kanazawa	30.20	767.1	30.31	769.9	34.8	1.6	86	se.	4.6	2.1	.....	0	0	.....	.....	0	0	clear	S. Endo.
Kioto	30.12	765.0	30.30	769.6	37.0	2.8	69	s.	2.4	1.1	.....	0	0	.....	.....	0	0	clear	M. Tojima.
Kochi	30.31	769.9	30.33	770.4	43.1	6.2	71	e.	4.1	1.8	.....	0	1 s	.....	.....	0	0	fair	
Nagasaki, I. M. Obs'y	30.07	763.8	30.28	769.1	45.1	7.3	77	sw.	0.6	0.3	.....	.....	10 s	.....	.....	0.030	0.8	overcast	S. Takehayashi.
Niigata	30.25	768.3	30.28	769.1	35.8	2.1	79	sw.	4.1	1.8	.....	0	0	.....	.....	0	0	clear	
Nobiru	30.24	768.1	30.25	768.3	30.1	— 1.1	75	nnw.	7.1	3.2	.....	0	0	.....	.....	0	0	clear	H. Midzushima.
Supporo	.....	.....	.....	.....	34.0	1.1	80	s.	10.8	4.8	.....	.....	10	.....	.....	0.020	0.5	covered	
Tokei Obs'y, Yeddo	30.21	767.3	30.28	769.1	40.2	4.6	90	se.	2.5	1.1	.....	0	0	.....	.....	0	0	clear	The Staff.
Wakayama	30.25	768.3	30.30	769.6	39.3	4.1	79	n.	2.0	0.9	.....	0	0	.....	.....	0	0	clear	Y. Kuwamuea.
MAURITIUS.																			
Mauritius Observatory	29.67	753.6	29.85	758.2	80.5	26.9	64	sse.	17.5	7.8	.....	0	2 k	.....	s.	0.01	0.3	fair	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.74	603.0	29.96	761.0	60.8	16.0	75	sw.	.....	.....	.....	8	0	sw.	.....	0	0	cloudy	Vicente Fernandez.
Leon	24.45	620.9	30.17	766.4	56.1	13.3	75	nnw.	.....	.....	1	6	0	W.	.....	0	0	foggy	Prof. M. Leal.
Mazatlan	29.72	754.8	29.98	761.5	63.0	17.2	89	e.	1.6	0.7	.....	1 cs	0	.....	.....	0	0	light haze	F. Quijano, U. E.
Mexico, Central Obs'y	23.18	588.7	30.30	769.6	50.5	10.3	73	calm	0	0	.....	0	0	.....	.....	0	0	fine	M. Tena, M. D.
Morelia	24.21	615.0	30.42	772.7	56.7	13.7	78	se.	.....	.....	1	1	2	s.	s.	0	0	foggy	The Staff.
Pabellon, Aguascallentes	24.02	610.1	30.07	763.7	51.6	10.9	70	ne.	.....	.....	1	3	0	.....	.....	0	0	foggy	M. V. de Leon, M. E.
Puebla, Catholic Institute	23.47	596.1	30.33	770.3	46.4	8.0	74	calm	0	0	.....	0	0	.....	.....	0	0	clear	Prof. P. Spina.
San Luis Potosi	24.31	617.5	30.32	770.1	52.8	11.6	69	e.	.....	.....	.....	0	8	.....	W.	0	0	covered	G. Barroeta, M. D.
Vera Cruz	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Zacatecas	22.62	574.8	30.08	764.0	57.2	14.0	57	ne.	7.8	3.4	.....	0	0	.....	.....	0	0	fine	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.49	774.5	30.49	774.5	53.2	11.8	.....	ese.	.....	.....	3	.....	.....	.....	.....	0.012	0.3	.....	
Groningen	30.42	772.6	30.47	774.0	50.7	10.4	.....	sw.	.....	.....	1	.....	.....	.....	.....	0	0	.....	
Helder	30.47	773.9	30.47	773.9	48.2	9.0	.....	ssw.	.....	.....	3	.....	.....	.....	.....	0	0	.....	
Hellevoetsluis	30.48	774.3	30.48	774.3	55.9	13.3	76	se.	.....	.....	1	.....	.....	.....	.....	0	0	.....	
Utrecht	30.45	773.5	30.50	774.7	55.2	12.9	61	w.	.....	.....	1	.....	0	.....	.....	0	0	clear	H. van der Brink.
NORWEGIAN.																			
Bergen	30.00	761.9	30.06	763.5	46.0	7.8	92	s.	25	11	.....	.....	10	.....	.....	0.441	11.2	raining	
Brono	29.25	742.9	29 29	743.9	43.5	6.4	94	sw.	29	13	.....	.....	10	.....	.....	0.630	16.0	raining	
Christiania	29.80	756.8	29.94	760.5	55.0	12.8	51	wsw.	20	9	.....	.....	0	.....	.....	0	0	.....	
Gjesvær	28.83	732.3	28.85	732.9	25.5	— 3.6	.....	wsw.	.....	.....	7–8	.....	10	.....	.....	.....	.....	.....	
Lodingen	28.97	735.8	29.02	737.0	30.2	— 1.0	92	s.	.....	.....	2	.....	10	.....	.....	0.618	15.7	snowing	
PORTUGUESE.																			
Angra, Azores	.....	.....	.....	.....	59.7	15.4	89	w.	4.9	2.2	.....	.....	5	.....	.....	0.409	10.4	.....	Dr. J. A. Sampaio.
Campo Major	29.30	744.2	30.29	769.4	67.1	19.5	42	ese.	3.8	1.7	.....	.....	0	.....	.....	0	0	.....	Dr. A. M. R. dos Santos.
Funchal, Maderia	30.22	767.7	30.31	769.9	63.9	17.7	50	sse.	3.8	1.7	.....	.....	6	.....	.....	0	0	.....	Capt. D. A. de Cunha.
Lisbon, Observatory	29.97	761.1	30.33	770.4	54.7	12.6	94	e.	1.8	0.8	.....	.....	10	.....	.....	0	0	.....	The Staff.
Ponta Delgada, Azores	30.27	768.8	30.34	770.6	64.8	18.2	78	calm	0	0	.....	.....	3	.....	.....	0	0	.....	
Saint Paul de Loando	29.71	754.5	29.90	759.5	82.4	28.0	91	wsw.	1.8	0.8	.....	.....	2	se.	.....	0	0	.....	
Serra da Estrella	25.52	648.1	30.26	768.5	51.8	11.0	44	se.	8.1	3.6	.....	.....	2	.....	.....	0	0	.....	
RUSSIAN.																			
Akmolinski	28.63	727.1	29.76	756.0	20.1	— 6.6	95	wsw.	45	20	.....	5 ck	0	.....	.....	0	0	.....	Major K. Lasarew.
Archangel	29.37	745.9	29.39	746.4	25.9	— 3.4	74	w.	9	4	.....	.....	0	.....	.....	0	0	.....	Capt. Sselliwerstow.
Astrakhan	30.24	768.0	30.15	765.9	41.5	5.3	62	wsw.	11	5	.....	0	6 k	.....	.....	blank	blank	.....	Capt. Wisganow.
Barnaul	29.31	744.5	29.83	757.6	31.3	— 0.4	98	calm	0	0	.....	.....	10	.....	.....	0.079	2.0	.....	Meteorological Obs'y.
Dorpat	29.84	758.0	30.10	764.4	40.3	4.6	59	wsw.	11	5	.....	2 c	0	.....	.....	0	0	.....	Observatory.
Ekaterinburg	28.67	728.3	29.69	754.0	20.7	— 6.3	61	w.	9	4	.....	c	8 n	.....	.....	0	0	.....	Meteorological Obs'y.
Kasan	29.38	746.2	29.66	753.3	27.9	— 2.3	83	ssw.	7	3	.....	.....	10	.....	.....	0.051	1.3	.....	Observatory.
Kertch	30.09	764.2	30.11	764.7	48.7	9.3	58	sw.	9	4	.....	0	8 n	.....	.....	0	0	.....	Lagorio & Sastyrez.
Kieff	29.37	746.0	30.02	762.5	44.6	7.0	48	nnw.	18	8	.....	c	3 ks	.....	.....	0.055	1.4	.....	Observatory.
Lugan	29.72	755.0	29.93	760.2	48.7	9.3	51	wsw.	22	10	.....	.....	9	.....	.....	blank	blank	.....	Meteorological Obs'y
Moscow	29.27	743.4	29.70	755.8	36.0	2.2	44	nne.	7.8	3.5	.....	0	4 ks	.....	.....	0	0	.....	Meteorological Obs'y.
Nikolaiev	30.06	763.6	30.13	765.4	46.8	8.2	77	wsw.	18	8	.....	.....	10 n	.....	.....	0.008	0.2	.....	Capt. Kurdakow.
Nikolaievsk, on the Amoor	29.72	755.0	29.81	757 2	8.2	—13.2	89	calm	0	0	.....	.....	10	.....	.....	0	0	.....	Lieut. Iwanow.
Pekin, China	29.82	757.3	29.96	760.9	51 3	10.7	41	calm	0	0	.....	0	0	.....	.....	0	0	.....	Physical Observatory
St. Petersburg	29.88	759.0	29.90	759.4	37.0	2.8	55	wnw.	20	9	.....	c	3 ks	.....	.....	0	0	light clouds	Central Physical Obs
Tashkend, Laboratory	28.74	730.0	30.35	770.9	48.6	9.2	77	calm	0	0	.....	.....	5	.....	.....	0	0	.....	Teich, A. M.
Tiflis	28.78	731.0	30.24	768.0	46 2	7.9	29	nw.	22	10	.....	0	0	.....	.....	0.004	0.1	.....	Physical Observatory
Vladivostok	29.89	759 2	29.96	760.9	30.0	— 1.1	100	se.	4	2	.....	.....	10 n	.....	.....	0	0	heavy cl'ds.	
Warsaw	29.97	761.2	30.41	772.3	47.7	8.7	70	wnw.	11	5	.....	.....	10 ks	.....	.....	.....	.....	.....	Astronomical Obs'y
Wilna	29.85	758.1	30.28	769.1	44.1	6.7	41	nw.	7	3	.....	.....	1	.....	.....	0	0	light clouds	Berg, Assistant.
Yeniseisk	29.61	752.2	29.91	759.8	27.5	— 2.5	89	ne.	4	2	.....	.....	10	.....	.....	0.039	1.0	snowing	M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	30.25	768.3	30.35	771.0	60.8	16.	73	e.	2.9	1.3	.....	.....	0	.....	.....	0	0	clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.23	767.9	30.29	769.4	69.8	21.0	39	s.	2.0	0.9	.....	0	0	.....	.....	0	0	clear	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.32	693.9	30.27	768.9	60.8	16.0	79	s.	6.0	2.7	.....	0	0	.....	.....	0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	28.10	713.8	30.34	770.5	61.5	16.4	45	s.	3.6	1.6	.....	0	0	.....	.....	0	0	clear	The Staff.
Murcia, Met. Obs'y	30.19	766.9	30.34	770.7	65.5	18.6	63	e.	2.9	1.3	.....	0	2	.....	.....	0	0	clouds	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.32	744.7	30.20	767.1	69.1	20.6	50	calm	0	0	.....	.....	0	.....	.....	0	0	clear	R. Gil Vallanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I	30.07	763.8	30.14	765.4	77.0	25.0	74	n.	14.3	6.4	.....	6 ck	4 k;s	nw.	nne.	0	0	cloudy	Benito Vines, S. J.
Manilla, Philippine Islands	29.97	761.2	30.03	762.7	77.3	25.2	81	n.	0	0	.....	0	6 n	.....	ene.	0.591	15.0	cloudy	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.19	766.8	30.29	769.3	65.8	18.8	49	0.	17.8	8.0	.....	0	2	.....	se.	0	0	.....	Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	30.06	763.6	30.15	765.9	70.2	21.2	89	calm	0	0	.....	3 cs	3 k	e.	e.	0	0	d. clouds	Manuel Maeu.
Tuguegarao, Philippine Id's	29.95	760.7	30.08	764.0	72.1	22.3	90.	nw.	4.9	2.2	.....	.....	10 ks	.....	n.	0	0	covered	José L. Yrastorza.
SWEDISH																			
Haparanda	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Umea	29.26	743.3	29.30	744.3	33.1	0.6	75	s.	.....	.....	2	.....	10	.....	.....	0	0	.....	
Hernosand	29.39	746.6	29.45	747.9	43.9	6.6	62	sw.	.....	.....	4	.....	7	.....	.....	0	0	.....	
Stockholm	29.52	749.8	29.57	751.1	57.7	14.3	37	wsw.	.....	.....	4	.....	3	.....	.....	0	0	.....	
Wisby	29.79	756.7	29.97	761.2	51.8	11.0	58	sw.	.....	.....	4	.....	4	.....	.....	0	0	.....	
	30.00	762 0	30.06	763.5	44.2	6.8	82	wsw.	.....	.....	4	.....	0	.....	.....	0.008	0.2	.....	
Sub-series.																			
Upsala	29.81	757.2	29.90	759.4	48.2	9.0	69	sw.	15.9	7.1	.....	.....	2	wnw.	.....	0	0	.....	S. G. Fineman.
SWISS.																			
Geneva	29.00	736.5	30.43	772.9	51.3	10.7	64	n.	.....	.....	2	.....	.....	.....	.....	0	0	clear	The Observatory.

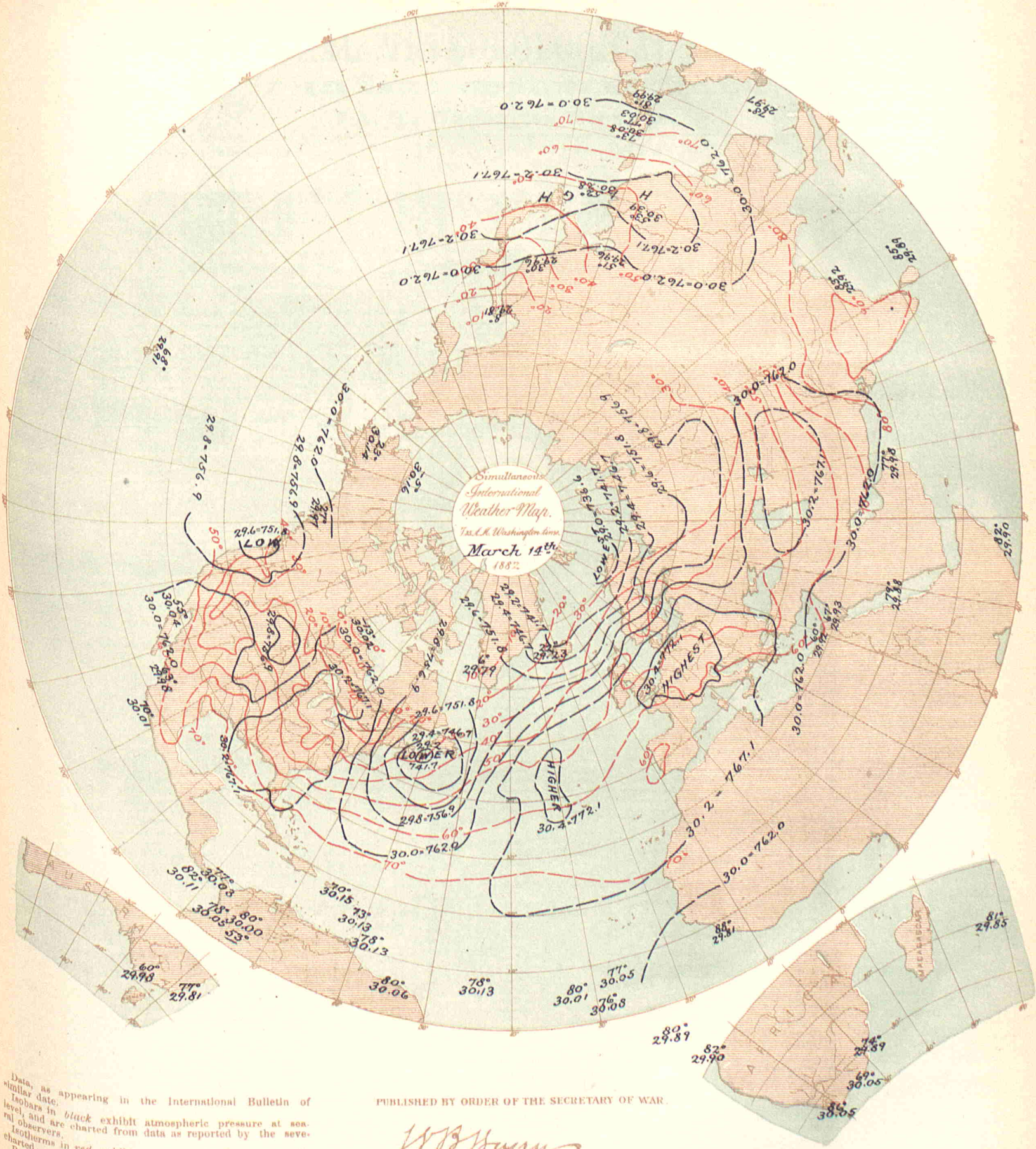
STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind.		Clouds. Direction.		Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
TURKISH.																			
Constantinople	.....	.....	30.23	767.8	47.1	8.4	44	nne.	12	5.5	.....	.....	7	.....	ne.	0	0	.....	The Observatory.
Valona	.....	.....	30.21	767.3	63.3	17.4	.....	nw.	.....	.....	2	.....	0	.....	.....	0	0	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	29.95	760.8	64.4	18.0	68	w.	.....	.....	1	0	2 k	.....	w.	0	0	.....	Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	29.97	761.2	30.06	763.5	23.5	— 4.7	73	nw.	10	4.5	.....	0	8 k	.....	nw.	0.05	1.3	cloudy	J. O. Barnes.
Alpena, Michigan	29.56	750.8	30.26	768.6	20.5	— 6.4	84	n.	7	3.1	.....	.....	10 n	.....	.....	0.02	0.5	light snow	Jas. J. Fitzgerald.
Atlanta, Georgia	29.05	737.9	30.26	768.6	37.0	2.8	61	nw.	.....	.....	2	0	0	.....	.....	0	0	clear	H. Hall.
Atlantic City, New Jersey	30.07	763.8	30.08	764.0	27.3	— 2.6	54	nw.	16	7.2	.....	0	0	.....	.....	0.02	0.5	clear	Jas. M. Watson.
Augusta, Georgia	30.12	765.0	30.32	770.1	39.3	4.1	89	calm	0	0	.....	0	0	.....	.....	0	0	clear	John Healy.
Baltimore, Maryland	30.15	765.8	30.20	767.1	30	— 1.1	47	n.	11	4.9	.....	0	0	.....	.....	Inap.	Inap.	clear	Robert Seyboth.
Barnegat, New Jersey	30.05	763.3	30.07	763.8	26.0	— 3.3	70	nw.	23	10.3	.....	0	1 k	.....	.....	0	0	clear	Chas. F. Merritt.
Bismarck, Dakota	27.79	705.9	29.71	754.6	28	— 2.2	88	e.	8	3.6	.....	.....	10 s	.....	calm	0.12	3.0	cloudy	Cyrus Cramer.
Boise City, Idaho	26.96	684.8	29.88	758.9	31	— 0.6	81	se.	6	2.7	.....	.....	10 s	.....	calm	0.12	3.0	cloudy	B. E. Light.
Boston, Massachusetts	29.66	753.4	29.82	757.4	21.0	— 6.1	58	nw.	28	12.5	.....	0	2 s	.....	nw.	0	0	clear	O. B. Cole.
Brownsville, Texas	30.00	762.0	30.06	763.5	72.2	22.3	90	s.	12	5.4	.....	hz.	1 s	.....	.....	0	0	dense haze	J. O. Galloway.
Buffalo, New York	29.41	747.0	30.20	767.1	20.5	— 6.4	85	w	8	3.6	.....	.....	10 n	.....	.....	0.05	1.3	light snow	Wm Flinn.
Burlington, Vermont	29.74	755.4	30.05	763.3	13.0	—10.6	70	nw.	9	4.0	.....	.....	10 s	.....	nw.	Inap.	Inap.	cloudy	G. C. Schaeffer.
Cairo, Illinois	29.88	758.9	30.30	769.6	40.8	4.9	66	se.	6	2.7	.....	5 c	0	nw.	.....	0	0	fair	W. H. Ray.
Campo, California	27.37	695.2	29.98	761.5	38.6	3.7	92	w.	1	0.4	.....	.....	10 s	.....	.....	0	0	cloudy	W. H. Clendenon.
Camp Thomas, Arizona	27.26	692.4	30.04	763.0	43.5	6.4	69	se.	.....	.....	1	0	0	.....	.....	0	0	clear	J. T. Fitzgerald.
Cape Henry, Virginia	30.19	766.8	30.21	767.3	36	2.2	69	nw.	36	16.1	.....	0	8 ks	.....	nw.	0.18	4.6	cloudy	J. E. Lanouette.
Cape May, New Jersey	30.09	764 3	30.12	765.0	31	— 0.6	57	nw.	27	12.1	.....	0	8 ks	.....	nw.	0.02	0.5	cloudy	W. Bolten.
Castroville, Texas	29.28	743.7	30.11	764.8	66	18.9	93	se.	4	1.8	.....	.....	10 s	.....	w.	0	0	cloudy	T. Jones.
Cedar Keys, Florida	30.27	768.8	30.29	769.4	50	10.0	52	n.	6	2.7	.....	0	0	.....	.....	0	0	clear	F. W. Mixer.
Champaign, Illinois	29.40	746.7	30.26	768.6	29.0	— 1.7	74	se.	4	1.8	.....	0	0	.....	.....	0	0	clear	L. A. Welsh.
Charleston, S. Carolina	30.20	767.1	30.26	768.6	44	6.7	60	ne.	10	4.5	.....	0	0	.....	.....	0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.37	746.0	30.25	768.3	35.0	1.7	64	e.	2	0.9	.....	0	fg	.....	.....	0	0	clear	D. O. Donoghue.
Chattanooga, Tennessee	29.50	749.3	30.35	770.9	36.0	2.2	69	nw.	2	0.9	.....	0	sk.	.....	.....	0	0	clear	B. L. Goulding.
Cheyenne, Wyoming	23.80	604.5	29.98	761.5	32.8	0.4	57	w.	4	1.8	.....	0	5 s	.....	.....	0	0	fair	E. McGovern.
Chicago, Illinois	29.53	750.0	30.27	768.8	27.8	— 2.3	89	w.	5	2.2	.....	6 k	0	.....	.....	0	0	fair	J. Mitchell.
Chincoteague, Virginia	30.11	764.8	30.13	765.3	31	— 0.6	47	nw.	28	12.5	.....	1 k	0	.....	.....	0.05	1.3	clear	F. C. Pratz.
Cincinnati, Ohio	29.64	752.8	30.33	770.4	31.5	— 0.3	59	w.	3	1.3	.....	0	0	.....	.....	Inap.	Inap.	clear	R. B. Watkins.
Cleveland, Ohio	29.47	748.5	30.25	768.3	28.2	— 2.1	86	nw.	12	5.4	.....	0	4 k	.....	nw.	0.02	0.5	fair	J. B. Newlin.
Coleman City, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	L. Dorman.
Columbus, Ohio	29.39	746.5	30.28	769.1	28	— 2.2	77	w.	7	3.1	.....	0	0	.....	.....	Inap.	Inap.	clear	D. Cuthbertson.
Concho, Texas	28.10	713.7	30.07	763.8	60	15.6	72	sw.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	W. W. McConihe.
Davenport, Iowa	29.52	749.8	30.21	767.3	28	— 2.2	64	ne.	6	2.7	.....	3 cs	0	w.	.....	0	0	clear	R. R. Martin.
Dayton, Washington T'y	27.93	709.4	29.74	755.4	35.5	1.9	90	se.	1	0.4	.....	0	5 s	.....	.....	0	0	fair	H. Clifford.
Deadwood, Dakota	24.98	634.5	29.82	757.4	39	3.9	52	sw.	16	7.2	.....	0	0	.....	.....	0.01	0.3	clear	G. W. Scott.
Decatur, Texas	.....	.....	.....	.....	55	12.8	69	se.	12	5.4	.....	5 ck	0	s.	.....	0	0	fair	D. J. Carr.
Delaware Breakwater, Del	30.10	764.5	30.12	765.0	31	— 0.6	68	nw.	34	15.2	.....	1 k	5 ks	nw.	nw.	0.01	0.3	fair	A. Schneider.
Denison, Texas	29.24	742.7	30.07	763.8	61.0	16.1	84	s.	15	6.7	.....	.....	10 s	.....	s.	0	0	cloudy	J. McGlone.
Denver, Colorado	24.61	625.1	30.05	763.3	43.0	6.1	37	w.	11	4.9	.....	1 k	0	sw.	.....	0	0	clear	F. M. Neal.
Des Moines, Iowa	29.10	739.1	30.06	763.5	31	— 0.6	78	se.	6	2.7	.....	10 ck	0	w.	.....	0	0	cloudy	F. W. Conrad.
Detroit, Michigan	29.51	749.5	30.26	768.6	28.0	— 2.2	88	w.	8	3.6	.....	0	0	.....	.....	0	0	clear	C. F. R. Wappenhans.
Dodge City, Kansas	27.15	689.6	29.88	758.9	46.5	8.1	91	s.	10	4.5	.....	.....	10 s	.....	.....	0	0	cloudy	E. A. Thomas.
Dubuque, Iowa	29.47	748.5	30.22	767.6	22.2	— 5.4	73	s.	2	0.9	.....	3 k	3 s	se.	s.	0	0	fair	J. Harvey Smith.
Duluth, Minnesota	29.45	748.0	30.19	766.8	27	— 2.8	88	ne.	10	4.5	.....	.....	10 s	.....	ne.	0	0	cloudy	N. B. Conger.
Eagle Pass, Texas	29.27	743.4	30.09	764.3	69.0	20.6	93	se.	3	1.3	.....	.....	10 s	.....	se.	0	0	cloudy	F. Belford.
Eagle Rock, Idaho	25.11	637.8	29.98	761.5	22	— 5.6	76	sw.	14	6.3	.....	5 cs	0	sw.	.....	0	0	fair	J. M. Clifford.
Eastport, Maine	29.49	749.0	29.56	750.8	27.5	— 2.5	77	nw.	22	9.8	.....	2 k	0	nw.	.....	0.08	2.0	clear	J. H. Melton.
El Paso, Texas	26.24	666.5	30.04	763.0	54	12.2	57	w.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.43	747.5	30.20	767.1	30	— 1.1	88	w.	15	6.7	.....	10 k	0	w.	.....	Inap.	Inap.	cloudy	R. H. Paxton.
Escanaba, Michigan	29.55	750.6	30.26	768.6	15	— 9.4	83	n.	4	1.8	.....	4 k	3 s	n.	n.	0	0	fair	C. Dill.
Florence, Arizona	28.54	724 9	30.11	764.8	40.5	4.7	78	ne.	4	1.8	.....	4 cs	0	sw.	.....	0	0	fair	R. R. Herman.
Fort Apache, Arizona	25.00	635.0	30.02	762.5	37	2.8	66	sw.	3	1.3	.....	0	5 s	.....	calm	0	0	fair	W. C. Barnes.
Fort Assinnaboine, Montana	26.94	684.3	29.95	760.7	30	— 1.1	59	w.	11	4.9	.....	0	9 s	.....	w.	0	0	cloudy	B. O. Lenoir.
Fort Bennett, Dakota	27.98	710.7	29.68	753.9	34	1.1	82	ne.	1	0.4	.....	.....	10 s	.....	.....	0	0	cloudy	T. Gibson.
Fort Benton, Montana	27.00	685.8	29.98	761.5	28	— 2.2	59	w	13	5.8	.....	.....	10 ks	.....	calm	0	0	cloudy	S. Wheaton.
Fort Buford, Dakota	27.68	703.1	29.82	757.4	29	— 1.7	67	e.	15	6.7	.....	.....	10 s	.....	calm	0	0	cloudy	A. H. Bell.
Fort Custer, Montana	26.47	672.3	29.80	756.9	37	2.8	92	sw.	3	1.3	.....	.....	10 s	.....	calm	0	0	cloudy	V. Verge.
Fort Davis, Texas	25.19	639.8	30.07	763.8	58	14.4	51	calm	0	0	.....	.....	10 s	.....	calm	0	0	cloudy	J. Williams.
Fort Elliott, Texas	27.14	689.3	29.97	761.2	44	6.7	41	se.	28	12.5	.....	5 c	0	se.	.....	0	0	fair	W. J. Cundall.
Fort Gibson, Indian T'y	29.39	746.5	29.98	761.5	57.5	14.2	52	s.	18	8.0	.....	.....	10 s	.....	s.	0	0	cloudy	J. B. Campbell.
Fort Grant, Arizona	25.16	639.1	29.99	761.7	36	2.2	25	w.	2	0.9	.....	0	0	.....	.....	0	0	clear	T. J. Macgowan.
Fort Griffin, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	G. H. Hayne.
Fort Keogh, Montana	27.09	688.1	29.74	755.4	35	1.7	65	e.	3	1.3	.....	.....	10 s	.....	.....	0	0	cloudy	W. B. Stockman.
Fort Macon, North Carolina	30.24	768.1	30.24	768.1	35	1.7	64	nw.	7	3.1	.....	hz.	0	calm	.....	0	0	clear	L. Leonardy.
Fort McKavett, Texas	27.82	706.6	30.14	765.5	63.0	17.2	90	e.	3	1.3	.....	3 k	0	.....	.....	0	0	fair	J. E. Thatcher.
Fort Missoula, Montana	26.46	672.1	29.84	757.9	22	— 5.6	88	se.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. H. Jones.
Fort St. Michaels, Alaska	30.10	764.5	30.14	765.5	23	— 5.0	100	s.	30	13.4	.....	.....	10 s	.....	.....	0	0	cloudy	A. P. Leavitt.
Fort Shaw, Montana	26.17	664.7	29.97	761.2	27	— 2.8	77	nw.	1	0.4	.....	.....	10 s	.....	.....	0	0	cloudy	A. L. Mathews.
Fort Sill, Indian Territory	28.72	729.5	30.01	762.2	57.5	14.2	88	s.	21	9.4	.....	.....	10 s	.....	s.	0	0	cloudy	T. Cleary.
Fort Stevenson, Dakota	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. Burrows.
Fort Verde, Arizona	.....	.....	.....	.....	35.1	1.7	66	n.	.....	.....	1	0	0	.....	.....	0.01	0.3	clear	D. Brooks.
Fort Washakie, Wyoming	24.16	613.7	.....	.....	35.0	1.7	68	nw.	12	5.4	.....	0	8 k	.....	nw.	0	0	fair	T. M. Ambler.
Fredericksburg, Texas	28.32	719.3	30.08	764.0	65	18.3	90	sw.	8	3.6	.....	.....	10 ks	.....	sw.	0	0	cloudy	H. S. Miles.
Galveston, Texas	30.11	764.8	30.15	765.8	70	21.1	90	s.	12	5.4	.....	.....	10 s	.....	.....	0	0	cloudy	E. O'C. Macnierney.
Grand Haven, Michigan	29.52	749.8	30.22	767.6	34.0	1.1	60	nw.	5	2.2	.....	10 k	0	nw.	.....	0.01	0.3	cloudy	W. A. Reid.
Hatteras, North Carolina	30.18	766.6	30.20	767.1	37	2 8	51	n.	16	7.2	.....	3 k	0	sw.	.....	0.10	2.5	clear	R. M. Crawford.
Helena, Montana	25.54	648.7	29.90	759.4	31	— 0.6	81	nw.	4	1.8	.....	.....	10 n	.....	.....	0.02	0.5	light snow	N. C. Smith.
Henrietta, Texas	29.04	737.6	30.08	764.0	60	15.6	87	s.	20	8.9	.....	.....	10 s	.....	.....	0	0	cloudy	J. W. Byram.
Huron, Dakota	28.28	718.3	29.76	755.9	36	2.2	82	se.	23	10.3	.....	.....	10 k	.....	se.	0	0	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.47	748.5	30.31	769.9	29	— 1.7	77	calm	0	0	.....	7 k	sk.	nw.	calm	0	0	fair	O. Schutze
Indianola, Texas	30.10	764.5	30.13	765.3	68.6	20.3	93	se.	4	1.8	.....	5 cs	2 ks	sw.	sw.	Inap.	Inap.	fair	I. A. Reed.
Jacksboro, Texas	28.88	733.5	30.09	764 3	59	15.0	87	s.	12	5.4	.....	.....	10 ks	.....	s.	0	0	cloudy	J. P. Sherry.
Jacksonville, Florida	30.24	768.1	30.29	769.4	48	8.9	50	nw.	3	1.3	.....	0	0	.....	.....	0.12	3.0	clear	J. W. Smith.
Keokuk, Iowa	29.47	748.5	30.16	766.1	31.5	— 0.3	78	e.	4	1.8	.....	5 k	0	w.	.....	0	0	fair	F. Z. Gosewisch
Key West, Florida	30.14	765.5	30.16	766.1	72.0	22.2	66	n.	23	10.3	.....	0	0	.....	.....	0	0	clear	L. M. Melbourne.
Kittyhawk, North Carolina	30.19	766.8	30.21	767.3	34	1.1	56	nw.	17	7.6	.....	lck;hs	1 s	.....	.....	0.08	2.0	clear	E. A. Beals.
Knoxville, Tennessee	29.26	743.2	30.32	770.1	30.6	— 0.8	75	ne.	5	2.2	.....	0	0	.....	.....	0	0	clear	J. A. Cody.
La Crosse, Wisconsin	29.35	745.5	30.17	766.3	30	— 1.1	57	se.	2	0.9	.....	0	0	.....	.....	0	0	clear	S. C. Emery.
La Mesilla, New Mexico	26.11	663.2	30.06	763.5	41.0	5.0	76	calm	0	0	.....	0	1 s	.....	.....	0	0	clear	N. D. Lane.
Leavenworth, Kansas	29.05	737.9	29.99	761.7	41	5.0	73	se.	3	1.3	.....	.....	10 s	.....	sw.	0	0	cloudy	A. W. Browne.
Lewiston, Idaho	28.90	734.0	29.76	755.9	40.8	4.9	90	e.	4	1.8	.....	.....	10 n	.....	calm	0.01	0.3	light rain	W. Blake.
Little Rock, Arkansas	29.85	758.2	30.18	766.6	49	9.4	77	se.	3	1.3	.....	0	7 ks	.....	sw.	0	0	fair	M. F. Burrows.
Los Angeles, California	29.70	754.4	30.10	764.5	48.1	8.9	77	w.	3	1.3	.....	.....	8 s	.....	w.	0.60	15.2	cloudy	E. F. Kubel.
Louisville, Kentucky	29.69	754.1	30.28	769.1	35	1.7	79	calm	0	0	.....	0	0	.....	.....	0	0	clear	H. C. Smith.
Lynchburg, Virginia	29.50	749.3	30.22	767.6	34.8	1.6	44	w.	4	1.8	.....	0	0	.....	.....	0	0	clear	T. H. Breen.
Madison, Wisconsin	29.18	741.2	30.25	768.3	28	— 2.2	77	w.	3	1.3	.....	2 cs	0	w.	.....	0	0	fair	C. A. Shaw.
Marquette, Michigan	29.50	749.3	30.27	768.8	22	— 5.6	88	e.	4	1.8	.....	.....	10 n	.....	calm	0.03	0.8	light snow	I. Gilligan
Mason, Texas	28.41	721.6	30.10	764.5	66	18.9	78	s.	6	2.7	.....	.....	10 s	.....	s.	0	0	cloudy	A. M. Wilson.
Memphis, Tennessee	29.92	760.0	30.27	768.8	44	6.7	83	calm	0	0	.....	0	0	.....	.....	0	0	clear	D. T. Flannery.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–01	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Milwaukee, Wisconsin	29.46	748.3	30.25	768.3	28	— 2.2	77	sw.	6	2.7			10 s		sw.	0	0	cloudy	W. Line.
Mobile, Alabama	30.27	768.8	30.31	769.9	49	9.4	63	ne.	2	0.9		0	0			0	0	clear	J. D. Paxton.
Montgomery, Alabama	30.09	764.3	30.33	770.4	45.5	7.5	72	calm	0	0		3 cs	fg.	n.		0	0	clear	J. B. McLaughlin.
Moorhead, Minnesota	28.83	732.3	29.91	759.7	20	— 6.7	84	se.	16	7.2			10 s		se.	0	0	cloudy	H. Bessant.
Morgantown, W. Virginia	29.19	741.4	30.25	768.3	32.0	0.0	78	w.	8	3.6			10 s			0.09	2.3	cloudy	J. Sprigg, jr.
Mt. Washington, N. H.	23.20	589.3	29.72	754.9	— 7.0	— 21.7	87	nw.	53	23.7			fg.	nw		0.55	14.0	light fog	J. G. Linsley.
Nashville, Tennessee	29.76	755.9	30.32	770.1	37.4	3.0	81	calm	0	0			fg.			0	0	dense fog	L. A. Jesunofsky.
New Haven, Connecticut	29.84	757.9	29.96	761.0	21	— 6.1	76	nw.	19	8.5		0	0			0	0	clear	J. H. Sherman.
New London, Connecticut	29.88	758.9	29.92	760.0	25	— 3.9	48	nw.	20	8.9		3 k	0	nw.		0	0	fair	J. G. Lynch.
New Orleans, Louisiana	30.18	766.6	30.24	768.1	58.5	14.7	71	ne.	4	1.8		1 c	sk.	nw.		0	0	clear	A. J. Armstrong.
Newport, Rhode Island	29.82	757.4	29.87	758.7	24.2	— 4.3	69	nw.	21	9.4		0	0			inap.	inap.	clear	W. McGillivray.
New River, N. Carolina					35	1.7	44	n.			1	0	0			0.02	0.5	clear	C. C. Corbin.
New Shoreham, Rhode I'd	29.84	757.9	29.87	758.7	24.0	— 4.4	61	nw	36	16.1		0	0			0.04	1.0	clear	W. Davis.
New York, New York	29.85	758.2	30.03	762.7	23.5	— 4.7	80	nw.	23	10.3		0	0			0	0	clear	E. B. Garriott.
Norfolk, Virginia	30.19	766.8	30.22	767.6	36	2.2	46	n.	10	4.5		0	7 ks		nw.	0.32	8.1	fair	J. T. Elker.
North Platte, Nebraska	26.75	679.4	29.81	757.2	36.6	2.6	79	nw.	9	4.0		0	0			0	0	clear	E. F. Brady.
Olympia, Washington T'y	29.54	750.3	29.58	751.3	38.5	3.6	84	n.	1	0.4			10 n		calm	inap.	inap.	light rain	J. Dascomb.
Omaha, Nebraska	28.67	728.2	29.92	760.0	38.8	3.8	65	se.	16	7.2		0	9 ks		s.	0	0	threatening	A. Pollak.
Ooglaamie, Pt. Barrow, Alas.	30.14	765.5	30.16	766.1	4.6	—15.2	90	sw.	8	3.6			10 s			0	0	cloudy	P. H. Ray.
Oswego, New York	29.76	755.9	30.10	764.5	22.4	— 5.3	53	n.	16	7.2		1 k	0	n.		0.03	0.8	clear	S. W. Beall.
Palestine, Texas	29.58	751 3	30.15	765.8	64	17.8	90	se.	8	3.6			10 s			0	0	cloudy	L. M. Pindell.
Pensacola, Florida	30.28	769.1	30.31	769.9	52.4	11.3	50	ne.	8	3.6		0	0			0	0	clear	M. McGauran.
Philadelphia, Pa	30.02	762.5	30.12	765.0	29	— 1.7	67	w.	18	8.0		0	5 ks		w.	0	0	fair	T. F. Townsend.
Pike's Peak, Colorado	17.43	442.7	30.02	762.5	12	—11.1	70	sw.	40	17.9		0	1 s		sw.	0	0	clear	L. M. Dey.
Ploche, Nevada	23.94	608.1	30.08	764.0	29	— 1.7	70	s.	14	6.3		10 k	0	sw.		0.12	3.0	cloudy	C. K. Kitchel.
Pittsburg, Pennsylvania	29.39	746.5	30.24	768.1	28.0	— 2.2	84	nw.	4	1.8			10 n		nw.	0.04	1.0	light snow	J. H. Bryce.
Port Eads, Louisiana	30.26	768.6	30.27	768.8	61.5	16.4	75	e.	16	7.2		0	hz.			0	0	clear	H. G. Christian.
Port Huron, Michigan	29.50	749.3	30.22	767.6	25.8	— 3.4	75	w.	8	3.6		8 cs	0	nw.		inap.	inap.	cloudy	W. O. Bailey.
Portland, Maine	29.69	754.1	29.74	755.4	24.0	— 4.4	61	nw.	19	8.5		5 c	5 s	calm	nw.	0	0	cloudy	D. C. Murphy.
Portland, Oregon	29.47	748.5	29.55	750.6	41.9	5.5	92	w.	4	1.8		3 k	5 ks	w.	sw.	0.02	0.5	cloudy	M. L. Hearne.
Portsmouth, N. Carolina					44	6.7	37	nw.	20	8.9		0	0			0.05	1.3	clear	F. P. Chaffee.
Prescott, Arizona	24.74	628.4	30.08	764.0	30	— 1.1	61	s.	2	0.9		0	0			0	0	clear	J. Mc N. Wright.
Provincetown, Mass	29.75	755.6	29.78	756.4	24	— 4.4	88	nw.	19	8.5			10 s		nw.	0	0	cloudy	P. T. Jenkins.
Punta Rassa, Florida	30.19	766.8	30.20	767.1	59	15.0	60	n.	10	4.5		0	0			0	0	clear	W. J. Evans.
Red Bluff, California	29.30	744.2	29.68	753.9	45.2	7.3	93	se.	14	6.3		0	8 s			0.71	18.0	cloudy	J. M. Frantz.
Rio Grande City, Texas	29.69	754.1	29.93	760.2	72	22.2	90	se.	6	2.7		5 c	0	calm		0	0	fair	W. H. Taylor.
Rochester, New York	29.46	748 3	30.16	766.1	22	— 5.6	100	nw.	15	6.7			10 s		nw.	0.03	0.8	cloudy	A. T. Sherwood.
Roseburg, Oregon	29.04	737.6	29.60	751.8	42	5.6	92	w.	6	2.7			10 n			0.46	11.7	light rain	J. J. Naury.
Sacramento, California	29.70	754 4	29.78	756.4	47.1	8.4	86	s.	18	8.0			10 n		sw.	0.40	10.2	light rain	J. A. Barwick.
St. Louis, Missouri	29.61	752.1	30.24	768.1	33.9	1.7	72	se.	11	4.9		5c;ck	0			0	0	fair	J. H. Webber.
St. Paul, Minnesota	29.15	740.4	30.07	763.8	27.0	— 2.8	80	e.	14	6.3		0	0			0	0	clear	O. S. M. Cone.
St. Vincent, Minnesota	29.04	737.6	29.98	761.5	20	— 6.7	91	e.	11	4.9			10 s		calm	0.03	0.8	cloudy	G. Kingsbury.
Salt Lake City, Utah	25.48	647.2	30.00	762.0	38	3.3	65	se.	14	6.3			10 ks		sw.	inap.	inap.	cloudy	J. Craig.
San Antonio, Texas	29.40	746.7	30.12	765.0	66.5	19.2	93	se.	3	1.3			10 s		s.	0	0	cloudy	E. Lane.
San Diego, California	29.99	761.7	30.06	763.5	53.2	11.8	86	s.	5	2.2		8 k	2 s	sw.	sw.	0.54	13.7	cloudy	A. C. Dobbins.
Sandusky, Ohio	29.54	750.3	30.26	768.6	28	— 2.2	77	nw.	14	6.3		0	3 s		nw.	0.08	2.0	clear	M. H. Perry.
Sandy Hook, New Jersey	30.00	762.0	30.04	763.0	25.0	— 3.9	73	n	27	12.1		3 k	0	n.		0	0	clear	B. A. Blundon.
San Francisco, California	29.71	754 6	29.78	756.4	50	10.0	77	se.	7	3.1			10 s		se.	0.53	13.5	threatening	N. Gorom.
Santa Fé, New Mexico	23.16	588.3	30.14	765.5	34.7	1.5	47	w.	7	3.1		0	0			0	0	clear	H. N. Jones.
Savannah, Georgia	30.18	766.6	30.27	768.8	45	7.2	51	nw.	6	2.7		0	0			inap.	inap.	clear	H. M. Ford.
Shreveport, Louisiana	29.93	760.2	30.18	766.6	58	14.4	53	se.	8	3.6		1 ck	1 s			0	0	clear	E. N. Meekins.
Silver City, New Mexico	24.27	616.4	30.05	763.3	31	— 0.6	47	calm	0	0		0	0			0	0	clear	J. B. Wallace.
Sitka, Alaska	29.90	759.4	29.97	761.2	26.5	— 3.1	68	ne.	10	4.5		0	0			0	0	clear	J. J. McLean.
Smithville, North Carolina	30.21	767.3	30.25	768.3	34	1.1	53	ne.	5	2.2		0	0			0	0	clear	J. C. Rickli.
Spokane Falls, Wash. Ter.	27.70	703.6	29.83	757.7	36	2.2	92	calm	0	0			10 n			0.01	0.3	light rain	D. Moore.
Springfield, Illinois	29.54	750.3	30.26	768.6	32.8	0.4	65	se.	4	1.8		0	0			0	0	clear	T. B. Jennings.
Springfield, Massachusetts	29.82	757.4	29.96	761.0	23.9	— 4.5	70	nw.	11	4.9		3 k	0	nw.		0	0	clear	T. S. Outram.
Springfield, Mo	28.62	726.9	30.18	766.6	46	7.8	68	s.	12	5.4			10 s			0	0	cloudy	J. B. Marbury.
Stockton, Texas	26.98	685.3	30.06	763.5	60.3	15.7	87	se.	20	8.9		0	7 s		se.	0.10	2.5	fair	J. O'Dowd.
Thatcher's Island, Mass	29.72	754.9	29.78	756.4	22.3	— 5.4	80	nw.	30	13.4		0	hz.			0	0	clear	G. Liebmann.
Toledo, Ohio	29.52	749.8	30.25	768.3	28	— 2.2	77	w.	7	3.1		0	0			inap.	inap.	clear	A. Buell.
Tucson, Arizona	27.60	701.0	30.06	763.5	43	6.1	68	se.	6	2.7		0	0			0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.34	745.2	29.72	754 9	39.5	4.2	75	e.	4	1.8			10 s		sw.	0	0	cloudy	R. P. Sibley.
Uvalde, Texas	29.09	738.9	30.07	763.8	68	20.0	90	se.	2	0.9			10 s		se.	0	0	cloudy	E. C. Imlay.
Vicksburg, Mississippi	30.01	762.2	30.27	768.8	50	10.0	59	se.	8	3.6		1 k	0	calm		0	0	clear	T. J. Kenan.
Visalia, California	29.54	750.3	29.92	760.0	49	9.4	74	se.	4	1.8			10 s			0.16	4.1	cloudy	J. T. Cochran.
Washington, D. C.	30.10	764.5	30.22	767.6	29	— 1.7	67	nw.	10	4.5		0	2 s		nw.	inap.	inap.	clear	B. M. Pursell.
West Las Animas, Colorado	25.83	656.1	29.91	759.7	50	10.0	16	sw.	25	11.2		0	0			0	0	clear	J. Grover.
Wickenburg, Arizona					35.5	1.9	73	nw.			1	0	0			0	0	clear	H. A. Kremp.
Williamsport, Pa	29.63	752.6	30.26	768.6	24.5	— 4.2	87	nw.	6	2.7		0	8 ks		nw.	0.02	0.5	cloudy	B. F. Hough.
Wilmington, N. Carolina	30.20	767.1	30.26	768.6	38	3.3	54	ne.	7	3.1		0	sk.		calm	inap.	inap.	clear	S. A. Haney.
Winnemucca, Nevada	25.33	643.4	29.83	757.7	27	— 2.8	77	ne.	8	3.6		0	5 ks		n.	0.15	3.8	fair	J. R. Williams.
Yankton, Dakota	28.41	721.6	29.80	756.9	36	2.2	79	se.	13	5.8		10 ck	0	s.		0	0	cloudy	J. H. Atfield.
Yuma, Arizona	29.89	759.2	30.04	763.0	50.0	10.0	63	n.	7	3.1		0	0			0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.07	560.6			53.0	11.7	71	se.	1	0.4		0	2 s		n.	0	0	clear	Joquin Gomez.
Bridgetown, Barbados, W.I.	30.12	765.0	30.13	765.3	78	25.6	82	e.				5 k	5 ks	e.	e.	0	0	fair	J. A. Racker.
Buenaventura, U. S. C.	30.03	762.7	30.05	763.3	78	25.6	90	calm	0	0			10 ks		calm	1.00	25.4	cloudy	J. I. Plume.
Gundeloupe, W. I.	30.01	762.2	30.03	762.7	73	22.8	95	e.				0	2 ks			0	0	clear	B. Bigar.
Havana, Cuba, W. I.	30.13	765.3	30.18	766.6	78	25.6	76	n.	36	16.1			10 ks		n.	0	0	cloudy	A. Van Caneghem.
Kingston, Jamaica, W. I.	30.12	765.0	30.13	765 3	69.0	20.6	90	n.	1	0.4		0	0			0	0	fine	Robert Johnston.
Nevassa	30.14	765.5	30.22	767.6	75.5	24.2	78	e.	7	3.1		8 ck	2 s	se.	e.	0	0		F. M. Everett.
Paramaribo, S. A.	30.06	763.5	30.06	763.5	80	26.7	82	e.			2	4 c	5 k	e.		0.600	15.2	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.54	750.3	30.00	762.0	80	26.7	86	calm			0					0.50	12.7	raining	Miss Flora A. Nichols.
Rivas							94	ne.			3	0	1 ks		ne.	0	0	clear	Robert Mason.
Santiago de Cuba, W. I.	30.09	764.3	30.12	765.0	76	24.4	65	n.	4.8	2.1		0	2 ks		n.	0	0	fair	
York Factory, B. A.	29.96	761.0	30.02	762.5	—13.0	—25.0	74	nw.	10	4.5		0	0			0	0	clear	W. Wood.

STATIONS AND VESSELS.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
BRITISH NAVAL.																		
H. M. S. Agincourt, N. 39° 53′, E. 4° 30′	30.33	770.4	57	13.9	93	nnw.			1		0							blue sky.
Albatross, Canton, China	30.18	706.6	67	19.4		ne.			1		8	wsw.						d. clouds.
H. M. S. Alert, S. 4° 36′, E. 55° 20′	29.91	759.7	84	28.9	79	wnw.			2–3		3							d. clouds.
H. M. S. Alexandra, Malta, Mediterranean	30.23	707.8	62.5	16.9	81	ne.			2–3		10	nne.						d. clouds.
H. M. S. Bacchante, Alexandria, Egypt	29.92	760.0	60	15.6	76	wnw.			3		10							overcast.
H. M. S. Boadicea, S. 33° 54′, E. 18° 26′	30.01	762.2	64	17.8	67	var.			1–2		0							blue sky.
H. M. S. Champion, S. 29° 50′, W. 71° 50′	29.94	760.5	60	15.6	?	se.			2		10	calm				1	se.	d. clouds.
H. M. S. Cleopatra, N. 21° 11′ E. 38° 08′	29.88	758.9	79	26.1	90	nw.			1		0					1	nnw.	blue sky.
H. M. S. Comus, N. 3° 27′, E. 109° 18′	29.97	761.2	78	25.6	100	nne.			2		3					3	ne.	d. clouds.
H. M. S. Diamond, S. 38° 36′, E. 95° 00′	30.23	767.8	61	16.1	88	sw.			1–2		10					1	wsw.	overcast.
H. M. S. Dido, N. 14° 34′, W. 61° 04′	30.13	765.3	76	24.4		e.			2		6	ene.						d. clouds.
H. M. Dock-Yard, Bermuda, W. I.	29.82	757.4	58	14.4	84	wnw.			5–6		6	wnw.				2	n.	squally.
H. M. S. Dwarf, S. 34° 35′, W. 58° 19′	30.07	763.8	62	16.7	94	n.			2–3		0							blue sky.
H. M. S. Eclipse, S. 15° 58′, E. 45° 00′	29.90	759.4	84	28.9		nne.			2		2							d. clouds.
H. M. S. Euryalus, Suez, Egypt	29.93	760.2	67	19.4	68	calm			0		0							misty.
H. M. S. Flying Fish, N. 34° 41′, E. 135° 12′	30.29	769.4	44	6.7	84	calm			0		3					2	ese.	misty.
H. M. S. Gannet, S. 37° 00′, W. 84° 00′	30.29	769.4	60	15.6	73	s.			3		0							d. clouds.
H. M. S. Garnet, Port Egmont, Falkland Ids.	30.35	770.9	59	15.0	70	wnw.			0		3	w.						squally.
H. M. S. Inconstant, S. 17° 00′, E. 95° 00′	30.00	762.0	79	26.1	82	sse.			5		6	se.				4	ese.	showery.
H. M. S. Iron Duke, N. 22° 16′, E. 114° 10′	30.21	767.3	58	14.4	87	calm			0		0							blue sky.
H. M. S. Lark, S. 36° 48′, E. 174° 50′	30.01	762.2	67.3	19.6		ene.			6		10					4	ene.	showery.
H. M. S. Liffey, Coquimbo, Chili	29.92	760.0	61	16.1		n			1		10							drizzling.
H. M. S. Magpie, N. 25° 18′, E. 119° 42′	30.20	767.1	53.3	11.8	75	ne.			2–3		9	sw.				2	ene.	misty.
H. M. S. Malabar, N. 31° 16′, E. 32° 19′	29.96	761.0	63	17.2	88	n.			1		1	n,				1	n.	blue sky.
H. M. S. Orontes, N. 2° 35′ E. 47° 35′	29.90	759.4	81.5	27.5	88	nne.			3		4	nne.				3	nne.	d. clouds.
H. M. S. Rambler, S. 4° 27′ E. 11° 30′	29.89	759.2	80	26.7		se.			3		1					2	sse.	blue sky.
H. M. S. Ready, Muscat, Arabia	29.98	761.5	77.1	25.1		se.			2		8							d. clouds.
H. M. S. Rocket, Vancouver Id., B. C.	29.57	751.1	39	3.9	91	calm			0		4							d. clouds.
H. M. S. Tamar, N. 36° 18′, W. 6° 58′	30.29	769.4	67.5	19.7	69	ese.			5		0					4	se.	blue sky.
H. M. S. Thalia, S. 6° 55′, W. 29° 12′	30.04	763.0	83	28.3		se.			3		4					1	e.	d. clouds.
H. M. S. Triumph, S. 36° 58′, W. 83° 47′	30.32	770.1	60	15.6	76	sse.			2		2	sse.				2	ssw.	d. clouds.
H. M. S. Woodlark, Bombay, India	29.90	759.4	82.5	28.1	70	ssw.			1		0							misty.
PORTUGUESE NAVAL.																		
Quanza, Santago, Cape Verd Islands	29.99	761.7	73.8	23.2	90	ne.			2		0					2	ne.	blue sky.
SWEDISH NAVAL.																		
Balder, N. 26° 36′ W. 79° 43′	30.13	765.4	65.3	18.4	85	n.			4		3							d. clouds.
UNITED STATES NAVAL.																		
Navy Yard, Pensacola, Fla	30.28	769.1	56	13.3	51	ne.	14	6.3			0			0	0			clear.
Navy Yard, Portsmouth, N. H.	29.79	756.7	22	— 5.6	?	nw.	29	13.0			3		nw.	0	0			fair.
Naval Hospital, Yokohama, Japan	30.14	765 5	47	8.3	66	calm			0		0			0	0			clear.
Adams, Callao, Peru	29.73	755.1	68	20.0	95	sse.			2		10					gr'd		foggy.
Alaska, Valparaiso, Chili	29.96	761.0	58	14.4	88	calm			0		0					sm'h		clear.
Alert, N. 13° 35′ E. 120° 44′*	29.84	757.9	81	27.2	83	ne.			3		10		calm	0	0	sm'h		cloudy.
Alliance, N. 19° 05′, W. 69° 00′	30.08	764.0	74	23.3	81	wsw.			1		2			0	0	sm'h		clear.
Ashuelot, Tientsin, China	29.97	761.2	42	5.6	73	e.			1		0			0	0			clear.
Brooklyn, Port Stanley, Falkland Island	29.34	745.2	56	13.3	76	wnw.	15	6.7			5		wnw.	0	0			fair.
Colorado, New York, N. Y.	30.04	763.0	26	— 3.3	100	nw.	30	13.4			0			0	0			clear.
Enterprise, N. 16° 13′, W. 63° 24′	30.11	764.8	77	25.0	82	e.			3		2		e.			sm'h	e.	fair.
Essex, Porto Praya	30.10	764.5	75	23.9	56	ene.			5		2		ne.			long	ne	clear.
Franklin, Norfolk, Va.	30.21	767.3	36	2.2	55	nnw.	14	6.3			8		nnw.	0.7	18.			fair.
Galena, N. 41° 18′, E. 9° 09′	30.37	771.4	60	15.6	82	ene.			5		0					mod.	ene.	clear.
Independence, Navy Yard, Mare Island, Cal.	29.68	753.9	48	8.9	92	se.			2		5		se.	0.39	9.9			fair.
Kearsarge, New Orleans, La.	30.24	768.1	60	15.6	76	ene.			2		0							clear.
Lackawanna, Valparaiso, Chili†	30.05	763.3	58	14.4	94	se.			1		10							misty.
Lancaster, Chanak, Turkey, Asia*	30.20	767.1	47	8.3	62	ne.			4		5		ne.	0	0			fair.
Marion, S. 33° 54′, E. 18° 24′*	29.77	756.1	72	22.2	80	w.			2		0					sm'h		clear.
Michigan, Erie, Pa.	30.12	765.0	29	— 1.7	100	w.			4		10		w.					cloudy.
Minnesota, Newport, R. I.	29.87	758.7	29	— 1.7		nnw.	18	8.0			2							fair.
Monocacy, Yokohama, Japan	30.34	770.6	47	8.3	77	sw.			1		0							clear.
New Hampshire, Newport, R. I.	29.84	757.9	27	— 2.8	77	nw.			6		2							fair.
Nipsic, Libson, Portugal	30.30	769.6	60	15.6	82	e.			1		8		nw.	0	0	r'gh	nw.	fair.
Onward, Callao, Peru	30.06	763.5	66	18.9	?	calm			0		2					sm'h		foggy.
Palos, N. 29° 35′ E. 123° 45′	30.28	769.1	52	11.1	93	ne.			1		10		n.			long	w.	overcast.
Passaic, Washington, D. C.	30.23	767.8	30	— 1.1	?	nw.			1		10		nne.			long	ne.	cloudy.
Pensacola, Arica, Peru	29.99	761.7	68	20.0	79	calm	0	0	3		8		nw.					fair.
Powhatan, Port Royal, Martinique, W. I.	30.13	765.3	78	25.6	69	var.					2					long	sw.	fair.
Quinnebaug, Cons antinople, Turkey	30.24	768.1	46	7.8	62	ne.			5		2							cloudy.
Ranger, N. 180 12′ W. 103° 09′*	29.91	759.7	70	21.1	60	nnw.			4		8		calm			sm'h		fair.
Richmond, Yokohama, Japan*	30.20	767.1	52	11.1	66	sw.			1		5		n.			sm'h		fair.
Shenandoah, N. 80 59′, W. 43° 52′*	30.13	765.3	78	25.6	73	ene.			1		2							fair.
St. Louis, League Island	30.34	770.6	29	— 1.7	?	nw.	13	5.8	4		2			0	0			fair.
Swatara, Yokohama, Japan*	30.09	764.3	50	10.0	65	wsw.			1		2		ne.					clear.
Tennessee, New Orleans, La.	30.20	767.1	58	14.4	82	e.	4	1.8			2			0	0	sm'h		fair.
Vandalia, Key West, Florida*†	30.28	769.1	73	22.8	76	n.			4		2							clear.
Wabash, Boston, Mass.	29.76	755.9	21	— 6.1		nw.	17	7.6			2		nw.	0	0			clear.
Wachusetts, Sitka, Alaska	29.85	758.2	28	— 2.2		n.			2		0					sm'h		clear.
Wyoming, Port Royal, S. C.	30.29	769.4	47	8.3	70	nnw.	6	2.7			2		w.	0	0			clear.
Yantic, Pensacola, Florida*	30.24	768.1	57	13.9	58	n.			1		2							clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Nova Scotian, Off Liverpool Bar, Eng	30.32	770.1	47	8.3	.....	s.	.....	.....	2	.....	0	.....	wnw.	.....	.....	sm'h	.....	clear.
S. S. Peruvian, Liverpool, Eng*	30.36	771.1	50	10.0	.....	wnw.	.....	.....	5	.....	2	.....	sw.	0	0	con	var.	cloudy.
S. S. Polynesian, N. 47° 48′, W. 36° 39′*	30.08	764.0	46	7.8	.....	s.	.....	.....	6	.....	9	.....	sw.	0	0	con	var.	cloudy.
S. S. Prussian, N. 42° 10′, W. 48° 30′*	29.95	760.7	55	12.8	.....	s.	.....	.....	7	.....	10	.....	ssw.	.....	.....	hv'y	s.	hazy.
S. S. Scandinavian, N. 47° 00′ W. 38° 55′*	30.11	764.8	51	10.6	.....	s.	.....	.....	6	.....	5	.....	s. to w.	0	0	high	con.	d. clouds.
S. S. Waldensian, Glasgow, Scotland*	30.18	766.6	52	11.1	.....	wsw.	.....	.....	5	.....	2?	.....	wsw.	1 h'r	light	.....	.....	cloudy?.
AMERICAN STEAMSHIP COMPANY.																		
S. S. British Crown, N. 42° 21′, W. 48° 45′†	29.89	759.2	55	12.8	.....	ssw.	.....	.....	8	.....	10	.....	.....	0	0	h'vy	ssw.	overcast.
S. S. Illinois, N. 51° 02′, W. 13° 20′	30.27	768.8	55	12.8	93	ssw.	.....	.....	5	.....	2	.....	sw.	.....	.....	sm'h	sw.	very fine.
S. S. Indiana, Philadelphia, Penn†	30.12	765.0	29	— 1.7	67	nw.	.....	.....	6	.....	5	.....	n.	0	0	.....	.....	clear.†
S. S. Ohio, N. 38° 48′, W. 74° 36′*†	30.00	762.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
ANCHOR LINE.																		
S. S. Devonia, N. 43° 25′ W. 51° 50′*†	29.28	743 7	48	8.9	.....	se.	.....	.....	7	.....	10	.....	.....	.....	.....	hv'y	cross	heavy rain.
S. S. Galatia, Off Fire Island, N. Y.†	29.50	749.3	.....	.....	.....	nnw.	.....	.....	8	.....	2	.....	nw.	0	0	mod.	nw.	fine.
ATLAS LINE.																		
S. S. Allan, Santa Martha, U. S. C.†	29.99	761.7	79	26.1	78	calm	.....	.....	0	.....	C	.....	.....	0	0	sm'h	.....	fine.
S. S. Alvo, N. 15° 50′, W. 76° 06′	30.14	765.5	79	26.1	.....	e.	.....	.....	5	.....	1	.....	e.	0	0	high	ene.	fine.
BOSTON AND HALIFAX LINE.																		
S. S. Carroll, Off Boston, Mass†	29.36	745.7	.....	.....	.....	nnw.	.....	.....	.....	.....	.....	.....	.....	0	0	.....	.....	clear.
BRITISH METEOROLOGICAL OFFICE.																		
S. Auckland, N. 3° 54′, W. 32° 38′	30.01	762.2	80	26.7	.....	nne.	.....	.....	3	.....	8	.....	.....	.....	.....	.....	.....	d. clouds.
S. Baroda, N. 49° 30′, E. 51° 22′	29.63	752.6	46.4	8.0	96	nw.	.....	.....	6	.....	10	.....	.....	.....	.....	.....	.....	overcast.
Bk. Caldew, N. 28° 48′, W. 28° 40′	30.08	764.0	76	24.4	.....	n.	.....	.....	1	.....	10	.....	.....	.....	.....	.....	.....	raining.
S. S. Cipero, off Pladda, Scotland	30.26	768.6	53.5	11.9	64	sw.	.....	.....	3	.....	10	.....	.....	.....	.....	.....	.....	overcast.
Bk. Commewyne, N. 21° 58′, W. 63° 42′	30.16	766.1	76.5	24.7	67	e.	.....	.....	3	.....	8	.....	.....	.....	.....	.....	.....	d. clouds.
Bk. Coppenname, N. 39° 40′, W. 31° 35′	30.48	774.2	56	13.3	65	nne.	.....	.....	5	.....	4	.....	.....	.....	.....	.....	.....	blue sky.
S. S. Gordon Castle, N. 5° 51′, E. 83° 10′	29.89	759.2	85	29.4	83	une.	.....	.....	5	.....	4	.....	.....	.....	.....	.....	.....	d. clouds.
Bg. Hermine, S. 21° 00′, W. 27° 45′	30.09	764.3	79	26.1	74	e.	.....	.....	5	.....	6	.....	.....	.....	.....	.....	.....	drizzling.
S. S. Humboldt, N. 43° 28′, W. 40° 04′	30.36	771.1	54.7	12.6	84	ssw.	.....	.....	6	.....	10	.....	.....	.....	.....	.....	.....	squally.
S. Lochee, N. 25° 19′, W. 40° 30′	30.27	768.8	72	22.2	80	ne.	.....	.....	3	.....	4	.....	.....	.....	.....	.....	.....	d. clouds.
S. S. Minho, St. Vincent; Cape Verde Islands	30.15	765.8	75.7	24.3	88	ne.	.....	.....	4	.....	2	.....	.....	.....	.....	.....	.....	misty.
Queen of Cambria, N. 17° 35′, E. 84° 19′	29.92	760.0	82.5	28.1	77	se.	.....	.....	3	.....	3	.....	.....	.....	.....	.....	.....	misty.
BRISTOL LINE.																		
S. S. Brooklyn City, N. 51° 10′, W. 15° 00′*†	30.30	769.6	58	14.4	.....	ssw.	.....	.....	6	.....	10	.....	w	0	0	mod.	w.	drizzling.
CROMWELL LINE.																		
S. S. Hudson, N. 31° 00′, W. 80° 45′*†	30.22	767.6	60	15.6	.....	nw.	.....	.....	2	.....	0	.....	.....	0	0	light	w.	clear.
CUNARD LINE.																		
S. S. Gallia, N. 50° 13′, W. 24° 24′	30.32	770.1	46	7.8	100	nw.	.....	.....	5	.....	0	.....	.....	0	0	mod.	w.	clear.
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. Canada, Havre, France	30.65	778.4	53.6	12.0	.....	sw.	.....	.....	1	.....	0	.....	.....	0	0	.....	.....	clear.
St. Laurent, N. 42° 30′, W. 56° 40′*†	29.65	753.0	41.0	5.0	.....	wsw.	.....	.....	8	.....	.....	.....	.....	0	0	h'vy	wsw.	clear.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Bohemia, N. 45° 33.′ W. 39° 11′*†	30.21	767.3	.....	.....	.....	ssw.	.....	.....	6	.....	4	.....	wsw.	0	0	h'vy	sw.	stormy.
S. S. Lessing, Hamburg, Germany	.....	.....	61	16.1	.....	wsw.	.....	.....	2	.....	2	.....	w.	0	0	.....	.....	fair.
S. S. Silesia, N. 43° 47′, W. 44° 34′*†	30.02	762.5	54.7	12.6	.....	ssw.	.....	.....	6	.....	5	.....	s.	0	0	o	ssw.	fair.
S. S. Wieland, N. 48° 38′, W. 23° 00′	30.39	771.9	52	11.1	.....	nnw.	.....	.....	3	.....	10	.....	n.	4 h'r	light	4	w.	cloudy.
LEYLAND LINE.																		
S. S. Iberian, N. 42° 48′, W. 64° 12′	.....	.....	.....	.....	.....	wnw.	.....	.....	4	.....	10	.....	nw.	12 h'r	12h'r	light	nw.	
MALLORY LINE.																		
S. S. Colorado, N. 31° 40′, W. 80° 20′†	30.18	766.6	45	7.2	.....	n.	.....	.....	2	.....	0	.....	.....	0	0	small	nw.	clear.
MERCHANTS' EXPRESS LINE.																		
S. S. Freja, N. 40° 26′, W. 65° 40′†	29.61	752.1	35	1.7	80	wnw.	.....	.....	6	.....	5	.....	wnw.	4 h'r	snow	cross	.....	
S. S. Hermod, N. 46° 35′, W. 32° 00′*†	30.18	760.6	60.8	16.0	.....	s.	.....	.....	1	.....	4	.....	se.	0	0	long	wsw.	fair.
NATIONAL LINE.																		
S. S. Erin, N. 42° 16′, W. 50° 51′	29.29	744.0	49	9.4	.....	s.	.....	.....	10	.....	9	.....	sw.	0	0	.....	ssw.	squally.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Niagara, N. 31° 36′ W. 79° 45′*†	30.28	769.1	53	11.7	.....	nne.	.....	.....	3	.....	0	.....	.....	0	0	sm'h	.....	clear.
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Amsterdam, N. 46° 40′, W. 38° 37′*†	30.18	766.6	53	11.7	.....	ssw.	.....	.....	6	.....	.....	.....	.....	.....	.....	.....	sw.	
S. S. Alvena, N. 17° 35′, W. 70° 53′*†	29.95	760.7	79	26.1	.....	e.	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	clear.
S. S. Maas, N. 49° 50′ W. 12° 57′*	30.26	768.6	52	11.1	.....	wsw.	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	nnw.	fine.
S. S. New York, N 37° 20′, W 74° 50′*†	30.15	765.8	33	0.6	.....	nnw.	.....	.....	6	.....	.....	.....	.....	.....	.....	.....	nnw.	clear.
S. S. Olbers, N. 26° 58′ W. 20° 00*†	30.28	769.1	66	18.9	.....	ene.	.....	.....	2-4	.....	.....	.....	.....	.....	.....	sm'h	.....	fine.
S. S. P. Caland, Off Lizard Point, England	30.40	772.1	51.8	11.0	.....	se.	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	fine.
NORTH GERMAN LLOYD																		
S. S. Kronprinz F. Wilhelm, N. 43° 50′, W. 47° 00′	29.01?	736.8?	51.8	11.0	.....	ssw.	.....	.....	7	.....	10	.....	.....	24 h'r	24 h'r	8–9	w.	drizzling.
S. S. Main, N. 41° 36′, W. 55° 42 *	29.35	745.5	44.6	7.0	.....	w.	.....	.....	5	.....	10	.....	w.	20 h'r	20 h'r	high	var.	rainy.
S. S. Mosel, N. 46° 00′, W 38° 39′	30.26	768.6	51.1	10.6	.....	ssw.	.....	.....	7	.....	8	.....	sw.	1½h'r	1½h'r	r'gh	ssw.	cloudy.
S. S. Neckar, N. 50° 10′ W. 3° 45′	30.41	772.4	52.2	11.2	.....	ese.	.....	.....	3	.....	0	.....	.....	0	0	.....	ese.	clear.
S. S. Nurnburg, S. 18° 42′, W. 30° 17′*	30.15	765 8	82.4	28.0	73	ese.	.....	.....	4	.....	4	.....	se.	0	0	3	e.	fair.
S. S. Oder, New York, N. Y.	30.09	764.3	27.5	—2.5	.....	nw.	.....	.....	6	.....	3?	.....	nw.	0	0	.....	.....	cloudy.?
S. S. Ohio, Bremerhaven, Germany	30.52	775.2	.....	.....	.....	sw.	.....	.....	4	.....	0	.....	.....	0	0	.....	.....	clear.
S. S. Salier, N 49° 11′, W 29° 02′	30.40	772.1	45.5	7.5	.....	nw.	.....	.....	6	.....	0	.....	.....	3 h'r	light	long	.....	fair.
S. S. Strassburg, N. 42° 10′, W. 55° 39′	29.25	742.9	47.0	8.3	92	wnw.	.....	.....	6	.....	10	.....	nw.	12 h'r	12 h'r	r'gh	sw.	drizzling.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Belgic N. 26° 42′, E. 123° 35′†	30.30	769.6	57	13.9	75	ne.	.....	.....	2	.....	5	.....	nnw.	0	0	light	ne.	fair.
S. S. Gaelic, N. 34° 22′, E. 138° 22′†	30.26	768.6	56	13.3	69	wsw.	.....	.....	2	.....	2	.....	wsw.	.....	.....	sm'h	.....	clear.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, Tybee Ronds, Georgia†	30.33	770 4	.....	.....	.....	n.	.....	.....	2	.....	0	.....	.....	0	0	.....	.....	clear.
S. S. Seminole, N. 33° 10′, W. 78° 24′†	30.32	770.1	47	8.3	62	n.	.....	.....	3	.....	0	.....	.....	0	0	sm'h	n.	clear.
OREGON IMPROVEMENT COMPANY.																		
S. S. Mississippi, Seattle, Wash. Ter.†	29.59	751.6	44	6.7	84	calm	.....	.....	0	.....	8	.....	s.	.....	.....	.....	.....	fair.
S. S. Willamette, Seattle, Wash. Ter.*†	29.60	751.8	43	6.1	92	calm	.....	.....	0	.....	5	.....	.....	0	0	.....	.....	d. clouds.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. City of Chester, Astoria, Oregon	.....	.....	52.5	11.4	83	nw.	.....	.....	3	.....	10	.....	nw.	.....	.....	.....	.....	rainy.
S. S. Oregon, N. 39° 21′, W. 124° 13′†	29.63	752.6	43	6.1	92	s.	.....	.....	3	.....	8	.....	n.	.....	.....	sm'h	.....	squally.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, San Francisco, Calf	29.70	754.4	51	10.6	79	sse.	.....	.....	3	.....	10	.....	s.	.....	.....	.....	.....	misty.
S. S. Geo. W. Elder, Off San Francisco, Calf	29.68	753.9	50	10.0	.....	se.	.....	.....	4	.....	7	.....	se.	0	0	light	var.	cloudy.
S. S. Idaho, Puget Sound, Wash. Ter.†	29.54	750.3	42	5.6	83	se.	.....	.....	2	.....	0	.....	.....	.....	.....	sm'h	.....	clear.
S. S. Orizaba, N. 32° 40′, W. 117° 14′†	30.02	762.5	58	14.4	70	se.	.....	.....	2	.....	.....	.....	sw.	0	0	light	se.	clear.
S. S. State of California, Portland, Oregon†	29.53	750.0	40	4.4	?	w.	.....	.....	3	.....	4	.....	se.	0	0	.....	.....	threatening
S. S. Victoria, Nanaimo, Vancouver's Id.†	29.53	750.0	29	—1.7	91	calm	.....	.....	0	.....	8	.....	.....	.....	.....	.....	.....	overcast.
PACIFIC MAIL STEAMSHIP CO.																		
S. S. Australia, Sydney, N. S. W.	29.66	755.4	76	24.4	86	ne.	.....	.....	1	.....	5?	.....	nne.	0	0	.....	.....	cloudy.?
S. S. City of New York, N. 34° —′ W. 129° 50′†	29.79	756.7	54	12.2	87	w.	.....	.....	6	.....	10	.....	.....	0	0	h'vy	wnw.	cloudy.
S. S. City of Pekin, N. 29° 31′, W. 117° 03′†	30.04	763.0	55	12.8	93	calm	.....	.....	0	.....	0	.....	.....	0	0	mod.	nw.	clear.
S. S. City of Rio de Janeiro, N. 7° 14′, W. 80° 10′†	30.11	764.8	82	27.8	75	nw.	.....	.....	2	.....	2	.....	n.	0	0	sm'h	.....	fine.
S. S. City of Sydney, Sydney, N. S. W.†	29.81	757.2	77	25.0	69	ne.	.....	.....	3	.....	5	.....	ne.	0	0	sm'h	.....	fair
S. S. City of Tokio, N. 34° 36′, E. 165° 45′†	30.10	764.5	53	11.7	73	nw.	.....	.....	1	.....	2	.....	nnw.	6 h'r	6 h'r	r'gh	nnw.	hazy.
S. S. Colima, N. 22° 52′ W. 106° 24′†	29.92	760.0	66	18.9	89	nw.	.....	.....	4	.....	4	.....	e.	0	0	mod.	e.	clear.
S. S. Colon, Aspinwall, Panama†	30.06	763.5	79	26.1	.....	ne.	.....	.....	3	.....	2	.....	ne.	.....	.....	.....	.....	clear.
S. S. South Carolina, Panama, Panama†	30.03	762.7	77	25.0	65	nnw.	.....	.....	1	.....	5	.....	n.	0	0	light	ne.	fine.
S. S. Zelandia, N. 21° 58′ W. 156° 24′	29.91	759.7	68	20.0	76	n.	.....	.....	3	.....	5	.....	n.	.....	.....	mod.	ne.	fine.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.			Force.	Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.			Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
QUEBEC STEAMSHIP CO.																		
S. S. Muriel, N 30° 04′, W. 68° 05′						nw.			4		2			0	0	r'gh	nw.	fair.
S. S. Bermuda, N. 21° 00′, W. 66° 26′†	30.20	767.1	80	26.7		sse.			3		1			0	0	long	ese.	
RED STAR LINE.																		
S. S. Nederland, N. 41° 32′, W. 57° 31′*†	29.96	761 0	47	8.3		w.			6		10		wnw.	6 h'r	6 h'r	h'vy	cross	cloudy.
S. S. Rhynland, N. 41° 15′ W. 47° 29′	29.95	760.7	52	11.1	86	s.			6		10		s.	0	0	high	ssw.	cloudy.
S. S. Vaderland, N. 49° 01′, W. 13° 03′	30.17	766.3	53	11.7		sse.			3		8		sw.	0	0	long	wnw.	cloudy.
S. S. Waesland, N. 49° 26′ W. 16° 11′	30.25	768.3	54	12.2		s.			5		1		sw.	0	0	sm'h	wnw.	clear.
ROTTERDAM LINE.																		
S. S. Schiedam, Rotterdam, Holland*	30.54	775.7	52.2	11.2	86	ne.			3		2							
S. S. W. A. Scholten, Rotterdam, Holland*	30.20	767.1	64.0	17.8	83	wnw			3		2		w.	0	0			
THINGVALLA LINE.																		
S. S. Thingvalla, N. 55° 00′ W. 22° 46′†	30.24	768.1	45.5	7.5		wnw.			3		4		wnw.	1 h'r	1 h'r	cross	wnw.	clear.
WARREN LINE.																		
S. S. Iowa, N. 50° 28′ W. 5° 46′*†	30.49	774.4	49	9.4		ssw.			4		2		ssw.	0	0	sm'h		clear.
WHITE STAR LINE.																		
S. S. Celtic, N. 47° 17′ W. 36° 00′.*†	30.16	766 1	47	8.3	92	s.			6		8		s.	0	0	hv'y	wsw.	cloudy.
S. S. Germanic, N. 40° 44°, W. 52° 09′*†	29.60	751.8	53	11.7		ssw.			9		10		s.	hv'y	hv'y	hv'y	s.	raining.
WILSON LINE.																		
S. S. Romano, N. 43° 03′ W. 42′ 50′*†	30.20	767.1	55	12.8		ssw.			6		7		ssw.	0	0	r'gh	sw.	cloudy.
S. S. Salerno, New York, N. Y.†	30.04	763.0				nnw.			6		7?		nnw.					clear.
WINSOR LINE.																		
S. S. Catherine Whiting, Philadelphia, Pa.†	30.11	764.8				wnw			3				nw.					
MISCELLANEOUS.																		
Sch. Addie Fuller, Cedar Keys, Florida†	30.35	770.9	50.5	10.3	55	ne.			2	0	0			0	0			clear.
Bk. Adelaide, S. 11° 56′, W. 35° 48′*†	30.12	765.0	80	26.7		ese.			4		1		ese.	20 mi	nutes	high	se.	clear.
Sch. Annie M. Law, N. 40° 58′ W. 64° 20′*†	29.50	749.3	38	3.3	63	w.			6		10			18 h'r	18 h'r	high	cross	sleeting.
Sch'r Annie M. Smull, S. 6° 50′ W. 32° 36′*†	30.10	764.5	84	28.9		se.							se.	0	0		se.	clear.
Bk. Bergenseren, N. 33° 40′ W. 36° 14′†	30.29	769.4				nne.			7				nne;	0	0	5	nne.	blue sky.
Bk. Celestina, N. 25° 42′, W. 38° 07′*†.	30.22	767.6				n.			2		4			0	0	sm'h		fair.
Bk. E. L. Pettingill, S. 31° 39′, W. 87° 59′†	30.30	769.6				ese.			3		8		se.	0	0	sm'h	s.	overcast.
S Enoch Train, Bremerhaven, Germany*	30.39	771.9				w.			2		0			0	0			clear.
U.S.F.C.S.S. Fish Hawk, Annapolis, Md.†	30.22	767.6	32	0.0		nw.			5		1		nw.	0	0			clear.
Bk. Freya, Annapolis, Md.			38	3.3		nw.			6		8		nw.	0	0			fair.
S. Grecian, N. 7° 48′ W. 26° 40′*†	30.05	763.3	76.5	24.7		ene			4		0			0	0	mod.	ne.	hazy.
Bk. Geo. Booth, S. 34° 15′. W. 8° 50′*†.	30.05	763.3				nw.			2		0			0	0	long	ssw.	fair.
Bk. Granville, S. 8° 29′, W. 32° 24′*†.	30.16	766.1				se.			3					0	0	sm'h		clear.
Schr. Henry Denison, Georgetown, Brit. Guiana†	29.94	760.5				ne.			2–4		7		ne.	driz	driz			cloudy.
Bk. Johanne Auguste, S. 11° 57′, E. 87° 51′*†	29.78	756.4				nne.			2		6		nnw.	6 h'r	6 h'r	sm'h		threatening.
Bkt. Josephine, N. 39° 28′, W. 68° 40′*†	29.88	758.9	40	4.4	48	wnw.			8		2			2 h'r	2 h'r	cross	sw.	fair.
Bk. Kate Cann, N. 47° 52′, W. 21° 12′						ese.			2		3		sse.	0	0	sm'h	nw.	fine.
Bkt. Kryolith, N. 42° 18′, W. 28° 10′*†	30.36	771.1				nne.			5		2		nne.	0	0	mod.	nw.	clear.
S. S. Lamperts, N. 48° 40′ W. 20° 36′*	30.23	767.8	52.2	11.2	96	nw.			5		10					2		raining.
Schr. Maggie Abbott, Baracoa, Cuba, W. I.*†	30.10	764.5				ene.			4				ene.	0	0			clear.
S. S. Malabar, N. 43° 38′, W 32° 30′*†	30.47	773.9				e.			1		0			0	0	long	nw.	clear.
Schr. Moravian, N. 8° 36′ W. 78° 50′						se.							se.					
Bk. Peppina, N. 38° 05′, E. 9° 06′†	30.22	767.6	63	17.2	83	n.			1		2		n.			sm'h		fair.
Bk Pilgrim, S. 47° 31′, E. 66° 10′*†	30.00	762.0				w.			1		5		w.	0	0	long	w.	fair.
Schr. S. B. Hubbard, Jacksonville, Florida*†.	29.86	758.4	71	21.7		sw.			3		5?		sw.	0	0			clear.†
Bkt. Spotless, N. 36° 18′, W. 61° 40′						wsw.							wsw.			hv'y	sw.	raining.
Bk. Stella, S. 50° 26′, W. 59° 20′*.	29.27	743.4	55.0	12.8	89	nw.			5		5		nw.	0	0	mod.	w.	
Bk. Sunbeam, N. 31° 08′. W. 71° 09′*†	30.01	762.2	60	15.6	71	nw.			7		5		nnw.	4 h'r	4 h'r	h'vy	nnw.	clearing.
S. S. Victoria J. Reed, Georgetown, S. C*†	30.23	767.8				nne.			2		1		ne.					
Bg. Wauburn, S. 16° 50′, W. 1° 44′*†	30.10	764.5				sse.			5		0					sm'h		
S. Wm. Woodbury, Bremerhaven, Germany*†	30.23	767.8	56	13.3	30	sw.			2		1		w.					



Data, as appearing in the International Bulletin of similar date.

Isobars in *black* exhibit atmospheric pressure at sea-level, and are charted from data as reported by the several observers.

Isotherms in *red* exhibit temperature of air, similarly charted.

Broken or dotted lines indicate that the lines so broken are doubtful.

Arrows, when charted, fly with the wind and exhibit wind-direction and force.

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W. B. Hazen

Brig. & Bvt. Maj. Gen'l.
Chief Signal Officer. U. S. A.

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INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON MARCH 15, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours	.....	.....	30.39	772.0	64.0	17.8	78	w.	.....	.....	3	.....	0	.....	.....	0	0	clear	Moiroud.
Algiers	.....	.....	30.46	773.6	59.7	15.4	70	ne.	.....	.....	2	.....	0	.....	.....	0	0	clear	Nicolas.
La Calle	.....	.....	30.45	773.3	64.0	17.8	78	nw.	.....	.....	1	.....	4	.....	.....	0	0	cloudy	Fonfrède.
Tunis	.....	.....	30.41	772.4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.42	772.6	62.2	16.8	48	n.	.....	.....	2	.....	1	.....	.....	0	0	very fair	Dumas.
Tebessa	.....	.....	30.45	773.4	58.6	14.8	51	w.	.....	.....	3	.....	2	.....	.....	inap.	inap.	fair	Derché.
Geriville	.....	.....	.....	.....	50.7	10.4	44	sswv.	.....	.....	3	.....	7	.....	.....	0.134	3.4	very cloudy	Louchamp.
Laghouat	.....	.....	.....	.....	62.6	17.0	34	se.	.....	.....	1	.....	1	.....	.....	0	0	very fair	Herbin.
Biskra	.....	.....	30.50	774.8	70.9	21.6	37	sw.	.....	.....	2	.....	4	.....	.....	0	0	cloudy	Malau.
	.....	.....	30.44	773.2															
Australian.																			
Melbourne, Victoria	29.98	761.5	30.07	763.8	55.3	12.9	73	se.	6	2.7	.....	.....	2	.....	.....	0.20	5.1	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.82	757.5	30.37	771.5	59.7	15.4	46	se.	.....	.....	2	.....	0	.....	.....	0	0	.....	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.54	750.2	30.31	769.8	57.6	14.2	51	w.	6.3	2.8	.....	.....	0	.....	.....	0	0	.....	Dr. Wierzbiski.
Eperies	29.41	747.8	30.30	769.5	53.6	12.0	54	s.	.....	.....	2	0	0	.....	.....	0	0	.....	Julius Mikolik.
Gratz	29.11	739.5	30.38	771.6	55.4	13.0	63	s.	.....	.....	1	.....	0	.....	.....	0	0	.....	Andreas Rospini.
Hermannstadt	28.87	733.4	30.33	770.4	51.1	10.6	29	n.	.....	.....	3	.....	1	.....	.....	0	0	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	29.02	737.1	30.37	771.5	54.7	12.6	64	nnw.	.....	.....	1	.....	0	.....	.....	0	0	clear	The Staff.
Lemberg	29.26	743.1	30.26	768.6	49.6	9.8	69	nw.	.....	.....	2	.....	2	.....	.....	0	0	.....	Dr. T. Stanecki.
Pola	30.21	767.3	30.32	770.2	57.9	14.4	61	wnw.	.....	.....	1	.....	0	.....	.....	0	0	.....	I. R. Hydrographic Office.
Szathmar	29.85	758.3	30.32	770.2	53.8	12.1	52	s.	.....	.....	1	.....	0	.....	.....	0	0	.....	Joseph Midlinszky, S. J.
Szegedin	30.07	763.7	30.35	770.9	55.4	13.0	43	nw.	.....	.....	1	.....	0	.....	.....	0	0	.....	Karl Stancel.
Trieste	30.24	768.0	30.34	770.6	66.6	19.2	29	ne.	.....	.....	3	.....	0	.....	.....	0	0	.....	Rieder.
Vienna	29.67	753.6	30.39	772.0	55.8	13.2	60	e.	.....	.....	1	.....	0	.....	.....	0	0	.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	30.25	768.3	30.35	770.9	48.0	8.9	51	sw.	16	7.2	.....	.....	7	.....	.....	0	0	d. clouds	W. Boswell.
Armagh, Observatory	30.33	770.4	30.57	776.5	49.9	9.9	71	sw.	12	5.4	.....	.....	8	.....	.....	.....	.....	d. clouds	S. Cull.
Bidston, Liverpool Obs'y	.....	.....	30.57	776.5	49 8	9.9	77	wnw.	10	4.5	.....	.....	1	.....	.....	.....	.....	blue sky	John Hartnup.
Bolton, Sharples	29.99	761.7	30.54	775.7	53.5	11.9	58	w	12	5.4	.....	.....	2	.....	.....	.....	.....	blue sky	Thomas Mackereth [A.S.
Bradford, Yorkshire	30.10	764.5	30.50	774.7	51.3	10.7	64	w.	.....	.....	1	.....	2	.....	.....	0	0	blue sky	J. McLandsborough, F. R
Bridgetown, Barbadoes	29.99	761.7	30.02	762.5	81.0	27.2	70	ne.	.....	.....	2	.....	8	.....	.....	.....	.....	overcast	Pvt. J. Surgenor, A. H.C.
Cardington	.....	.....	30.51	774.9	54.0	12.2	76	w.	.....	.....	0.2	.....	7	.....	.....	.....	.....	d. clouds	John McLaren.
Chatham, School M. E.	30.42	772.7	30.56	776.2	55.1	12.8	60	ne.	.....	.....	1	.....	1	.....	.....	.....	.....	d. clouds	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	30.37	771.4	30.60	777.2	51.5	10.8	75	nnw.	.....	.....	2	.....	3	.....	.....	.....	.....	foggy	The Staff.
Fort Napier, Natal	27.58	700.5	29.80	756.9	77.2	25.1	38	c.	.....	.....	1	.....	3	.....	.....	.....	.....	blue sky	Pvt. E. K Annis, A. H.C.
Free Town, Sierra Leone	29.58	751.3	29.82	757.4	87.0	30.6	72	w.	.....	.....	1	.....	3	.....	.....	.....	.....	d. clouds	Sergt. John Robinson.
Galway, Queen's College	.....	.....	30.54	775.7	.....	.....	.....	sw.	.....	.....	2	.....	4	.....	.....	0	0	blue sky	J. O'Donaghue.
Gibraltar, Mediterranean	30.31	769.9	30.36	771.1	61.5	16.4	77	ne.	.....	.....	2	.....	7	.....	.....	.....	.....	d. clouds	Opl. O. Baldwin.
Glasgow, Observatory	30.28	769.1	30.48	774.2	47.2	8.4	67	sswv.	.....	.....	4	0	9 k	.....	.....	.....	.....	d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	30.38	771.6	30.56	776.2	56.0	13.3	57	n.	.....	.....	1	.....	2	.....	.....	.....	.....	blue sky	The Staff.
Guernsey	30.26	768.6	30.57	776.5	53.0	11.7	73	ne.	.....	.....	1	.....	1	.....	.....	.....	.....	blue sky	A. Collenette, F. M. S.
Kew, Observatory	30.53	775.4	30.57	776.5	54.5	12.5	53	n.	8	3.6	.....	.....	3	.....	.....	.....	.....	d. clouds	The Staff.
Leicester, Museum	30.28	769.1	30.54	775.7	54.2	12.3	73	sw.	.....	.....	1	.....	6	.....	.....	.....	.....	d. clouds	J. C. Smith.
Malta, Mediterranean	30.15	765.8	30.22	767.6	64.0	17.8	73	e.	.....	.....	2	.....	0	.....	.....	.....	.....	blue sky	I. H. Whysall.
Nassau, Bahamas	30.27	768.8	30.32	770.1	70.0	21.1	56	ne.	.....	.....	1	.....	4	.....	.....	.....	.....	d. clouds	O. S. Duncombe.
Oscott, St. Mary's College	30.03	762.7	30.57	776.5	45.6	7.6	84	wnw.	.....	.....	1	.....	9	.....	.....	.....	.....	d. clouds	John Mac Email.
Oxford, Radcliffe Obs'y	30.34	770.6	30.57	776.5	55.6	13.1	65	wnw.	.....	.....	1	.....	6	.....	.....	.....	.....	d. clouds	The Staff.
Plymouth	30.51	774.9	30.58	776.7	52.7	11.5	76	nw.	.....	.....	1	.....	10	.....	.....	.....	.....	overcast	John Merrifield.
Sandwick Manse, Orkneys	.....	.....	30.14	765.5	45.4	7.4	71	sw.	40	17.9	.....	.....	7	.....	.....	.....	.....	d. clouds	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	30.02	762.5	30.08	764.0	51.6	10.9	53	ne.	.....	.....	3	.....	3	.....	.....	.....	.....	d. clouds	W. H. Lyne.
Sheffield	30.26	768.6	30.53	775.4	56.9	13.8	90	calm	.....	.....	0	.....	4	.....	.....	0	0	d. clouds	W. F. Cooper.
Silloth Rectory	30.50	774.7	30.52	775 2	50.5	10.3	76	sw.	.....	.....	2	.....	4	.....	.....	0	0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	30.54	775.7	53.0	11.7	60	w.	9	4.0	.....	.....	7	.....	.....	.....	.....	d. clouds	R. S. J. Perry.
Stratfield Turgiss	30.35	770.9	30.57	776.5	56.9	13.8	60	n.	.....	.....	2	.....	0	.....	.....	.....	.....	blue sky	Rev. C.H. Griffiths, F.M.S.
Truro, Royal Institution	30.00	777.2	30.65	778.5	62	16.7	46	s.	.....	.....	2	.....	0	.....	.....	.....	.....	blue sky	W. Newcombe.
Valencia, Observatory	30.58	776.7	30.61	777.5	53.3	11.8	73	sse.	3	1.3	.....	.....	3	.....	.....	.....	.....	d. clouds	The Met'g'l Office.
Canadian.																			
Bathurst, N. B	.....	.....	.....	.....	16.0	— 8.9	.....	calm	0	0	.....	0	0	.....	.....	0	0	clear	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.12	765.0	30.17	766.3	10	—12.2	99	nnw.	4	1.8	.....	0	0	.....	.....	0.150	3.8	clear	H. J. Cundall, C. E.
Chatham, N. B*	30.19	766.8	30.26	768.6	11	—11.7	91	nw.	6	2.7	.....	0	0	.....	.....	0.19	4.8	clear	G. A. Blair.
Cornwall, Ontario	30.15	765.8	30.36	771.1	— 0.5	—18.1	100	sw.	.....	.....	1	0	0	.....	.....	0	0	clear	James Smith, M. A.
Dalhousie, N. B	30.03	762.7	30.21	767.3	10.0	—12.2	.....	w.	.....	.....	1	0	0	.....	.....	0	0	clear	H. A. Johnson.
Father Point, Quebec*	30.30	769.6	30.32	770.1	3	—16.1	91	sw.	.....	.....	.....	0	0	.....	.....	0	0	clear	J. McWilliams.
Fort Garry, Manitoba*	29.31	744.5	30.19	766.8	20	— 6.7	96	n.	3	1.3	.....	0	0	.....	.....	0	0	cloudy	James Stewart.
Fredericton, N. B	30.20	767.1	30.27	768.8	15.1	— 9.4	81	w.	10	4.5	.....	5 k	5 ks	n.	.....	0.040	1.0	clear	Prof. Harrison.
Granton, Ontario	29.00	736.6	30.18	766.6	21.3	— 5.9	96	ne.	.....	.....	2	0	0	.....	.....	0	0	cloudy	James Grant.
Halifax, N. S*	30.06	763.5	30.20	767.1	20	— 6.7	80	nw.	8	3.6	.....	10 n	10 n	.....	.....	inap.	inap.	clear	A. Allison.
Hamilton, Ontario	29.79	756.7	30.20	767.1	23.2	— 4.9	86	nw.	.....	.....	1	0	0	.....	.....	inap.	inap.	clear	Geo. Dickson, B. A.
Kingston, Ontario*	30.00	762.0	30.37	771.4	6	—14.4	76	ne.	2	0.9	.....	10 cs	0	ne.	.....	0.20	5.1	cloudy	A. P. Knight, M. A.
Little Glace Bay, N. S	30.07	763.8	30.11	764.8	11.0	—11.7	80	n.	.....	.....	3	2 c	0	calm	.....	0	0	light haze	C. H. Rigby.
Montreal, Quebec*	30.18	766.6	30.40	772.1	9	—12.8	66	w.	1	0.4	.....	2 k	0	n.	.....	0.20	5.1	clear	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.53	750.0	30.29	769.4	8	—13.3	76	e.	17	7.6	.....	0	sk	.....	.....	0	0	clear	Rev. R. Mosley.
Peterboro, Ontario	29.54	750.3	30.36	771.1	13.7	—10.2	81	ne.	.....	.....	1	2 cs	2 ks	w.	w.	0	0	fair	J. Dixon, B. A.
Port Dover, Ontario	29.47	748.5	30.20	767.1	27	— 2.8	88	e.	8	3.6	.....	0	4 8	.....	.....	0	0	fair	H. Morgan.
Port Stanley, Ontario	29.47	748.5	30.15	765.8	28	— 2.2	88	e.	28	12.5	.....	10 n	10 n	.....	.....	0.02	0.5	threatening	M. Payne.
Quebec, Quebec*	30.00	762.0	30.36	771.1	1	—17.2	72	w.	.....	.....	1	0	0	.....	.....	inap.	inap.	heavy snow	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.86	758.4	30.39	771.9	—10	—23.3	86	calm	0	0	.....	0	0	.....	.....	0	0	clear	W. H. McIntyre.
Saugeen, Ontario*	29.42	747.3	30.19	766.8	18	— 7.8	87	se.	9	4.0	.....	.....	10 8	.....	.....	0	0	clear	
St. Andrews, N. B	30.18	766.0	30.23	767.8	16	— 8.9	90	nw.	5	2.2	.....	0	0	.....	.....	0	0	cloudy	
St. John, N. B	30.07	763.8	30.25	768.3	21.0	— 6.1	85	ne.	5	2.2	.....	0	0	.....	.....	0	0	clear	
St. Pierre, N. F	.....	.....	29.84	757.9	12.2	—11.0	.....	w.	.....	.....	3	.....	.....	.....	.....	0	0	.....	G. Murdock, C. E.
Stratford, Ontario	28.79	731.3	30.16	766.1	20	— 6.7	84	se.	12	5.4	.....	10 8	.....	.....	.....	0	0	cloudy	N. F. Land, Com't.
Sydney, C. B*	30.02	762.5	30.09	764.3	11	—11.7	83	nw.	1	0.4	.....	0	0	.....	.....	0.20	5.1	clear	O. I. Macgregor, M. A.
Toronto, Ontario*	29.88	758.9	30.29	769.4	24	— 4.4	73	se.	15	6.7	.....	.....	10 8	.....	w.	inap.	inap.	cloudy	T. C. Hill, C. E.
Windsor, N. S	30.08	764.0	30.18	766.6	17.5	— 8.1	92	sw.	4	1.8	.....	.....	8 ks	.....	.....	0.05	1.3	cloudy	Magnetic Observatory.
Woodstock, Ontario	29.08	738.6	30.21	767.3	22.4	— 5.3	77	ne.	19	8.5	.....	.....	10 ks	.....	.....	0	0	cloudy	Prof. Wolverton
Yarmouth, N. S*	30.14	765.5	30.21	767.3	26	— 3.3	76	n.	2	0.9	.....	2 k	0	n.	.....	0.27	6.9	fair	Lt. F. E. Wilmot, R. N.
Sub-arctic.																			
St. Johns, Newfoundland	29.62	752.3	29.89	759.2	17	— 8.3	.....	w.	3	1.3	.....	.....	10	.....	.....	0.20	5.1	fair	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.05	763.3	30.28	764.0	69.0	20.6	73	w.	14.8	6.6	.....	0	2 8	.....	.....	0	0	hazy	John Duthie.
Cape Town, C. G. H. Obs'y	29.97	761.2	30.01	762.2	85.4	29.7	43	sse.	15	6.7		0	2	.....	.....	0	0	.....	The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
CHINESE (*Sub-series*).																			
Hankow	30.08	764.0	30.35	770.9	59.6	15.3	70	sse.			3		0			0	0		N. Titoushkin.
Zi-Ka-Wei, near Shanghai	30.21	767.2	30.23	767.9	49.3	9.6	92	s.	2.2	1.0			0			0	0	clear	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	30.19	766.8	30.24	768.0	48.0	8.9	77	nw.	27	12			5						Oversergent Fischer.
Fanöe	30.36	771.1	30.38	771.6	45.9	7.7	85	wnw.			6		3						Overloerer Lauridsen.
Godthaab, Greenland	29.39	746.4	29.43	747.5	6.6	—14.1	88	calm			0		8						S. Kleinschmidt.
Stykkisholm, Iceland	29.30	744.3	29.35	745.4	13.5	—10.3	93	ne.			7		10					snowing	A. O. Thorlacius
Thorshavn	29.52	749.9	29.56	750.8	43.9	6.6	87	sw.	40	18			1C					raining	Overloerer Bergh.
Vestervig	30.21	767.2	30.30	769.5	42.8	6.0	88	wnw.			4		3						Loerarer Oesterbol.
FRENCH.																			
Agen, Normal School	29.80	756.8	30.43	773.0	64.4	18	56	calm			0		0			0	0	clear	M. Labroue, Director.
Alençon, Normal School	29.93	760.3	30.48	774.3	60.8	16	59	ne.								0	0		M. Nicot, Director.
Arras, Engineer School	30.25	768.3	30.51	775.0	57.0	13.9	68	n.			1		5k		n.	0	0	½ covered	M. Klein, Commandant.
Avignon, Normal School	30.31	769.8	30.39	771.8	68.0	20	50	n.			1		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.93	760.1	30.49	774.4	58.1	14.5	47	e.			1		0			0	0	clear	M. Saillard, Director.
Beauvais, Normal School	30.25	768.3	30.52	775.2	56.5	13.6	53	ne.			1		0			0	0	clear	M. Frère Eugène Mari.
Besançon, Normal School	29.48	748.8	30.39	771.8	58.6	14.8	76	ne.			1	c	0	ne.		0	0		M. Gobin, Director.
Bordeaux, Observatory	30.20	767.0	30.46	773.6	61.0	16.1	65	w.			1		0			0	0	hazy	M. Rayet, Director.
Bourges, Normal School	29.93	760.1	30.49	774.4	65.3	18.5	42	ne.							ne.	0	0		M. Postel, Director.
Brest, Naval Observatory	30.29	769.3	30.53	775.5	56.5	13.6	60	ne.			2		0			0	0		M. de Kermaree, Dir.
Caen, Normal School	30.43	773.0	30.51	774.9	58.6	14.8	48	n.			1		0			0	0	clear	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	30.10	764.6	30.43	772 9	59.9	15.5	68	calm			0		0			0	0	clear	M. Jadot, Director.
Charleville, Normal School	29.95	760 7	30.46	773.7	63.3	17.4	78	nne.			1		0			0	0	clear	M. Grimard, Director.
Clermont-Ferrand Obs'y	29.09	738.9	30.43	773.0	65.3	18.5	25	n.			1		0			0	0	clear	M. Alluard, Director.
Cluny, Normal School	29.60	751.9	30.45	773.5	63.0	17.2	38	n.			1		0			0	0	clear	M. de Villemontée, Dir.
Commercy, Normal School	29.60	751.8	30.48	774.3	61.7	16.5	46	calm			0		0			0	0	clear	Dr. Coulet, Director.
Gap, Normal School	27.76	705.1	30.24	768.2	67.1	19.5	25	w.			1					0	0		M. Jeangirard, Director.
Gréasque, du, Rhone	29.25	742.9	30.36	771.2	65.3	18.5	43	nnw.			1		0			0	0	clear	M. Kina, Director.
Grenoble, Normal School	29.63	752.7	30.40	772.1	63.3	17.4	46	ese.			1		0			0	0	clear	M. Ablard, Director.
Guéret, Normal School	28.87	733.3	30.46	773.7	63.1	17.3	41	sw.			1		0			0	0	clear	M. Rivoire, Director.
Lamballe, Normal School	30.26	768.5	30.53	775.5	59.0	15	63	nne.			1		0			0	0	light fog	M. Ollitrault, Director.
Lescar, Normal School	29.88	758 9	30.45	773.3	64.0	17.8	55	e.			1		0			0	0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	30.40	772.1	30.50	774.7	64.8	18.2	63	ne.			2		0			0	0	clear	Lt. T. Carré, Director
Lyon, St. Genis-Laval	29.39	746.6	30.46	773.6	60.3	15.7	41	n.			2		0			0	0	clear	M. André, Director.
Mans, Normal School	30.23	767.8	30.54	775.7	58.8	14.9	46	nne.			1		0			0	0	clear	M. Piboen, Director.
Marseille, Observatory	30.10	764.5	30.37	771.3	65.1	18.4	56	wsw.			2		0			0	0		M. Stephan, Director
Montlouis l'Instituteur	25.11	637.8	29.95	760.8	51.8	11.0	32	ne.	7.4	3.3			0			0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	30.25	768.4	30.38	771.6	68.7	20.4	53	s.			3		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.66	753.4	30.45	773 3	60.4	15.8	42	wnw.			1	1	0			0	0	clear	M. Hasse, Director
Nantes, Observatory	30.34	770.7	30.50	774.8	66.4	19.1	54	ene.			1-2		0			0	0		M. Larocque, Director.
Perpignan, Observatory	30.30	769.7	30.41	772.5	64.8	18.8	58	se.	7.4	3.3			0			0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.52	546.7			26.4	— 3.1		ne.			1	1	1	se.	ne.	0	0	clear	Gen'l de Nansouty, Dir.
Privas, Normal School	29.34	745.2	30.39	772.0	68.7	20.4	51	n.			1					0	0		M. Tallien.
Puy de Dôme Obs'y, Sammli	25.54	648.7			45.9	7.7	54	ene.			2		0			0	0	clear	M. Alluard, Director.
Rochefort, Naval Obs'y	30.41	772.4	30 44	773.2	63.7	17.6	86	calm			0		0			0	0	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	30.30	769.6	30.51	775.0	65.5	18.6	56	sse.			1		0			0	0	clear	M. Mouillot, Director.
Rodez, Normal School	28 23	717.1	30.37	771 5	61.2	16.2	35	n.			1		0			0	0	clear	M. Serger, Director.
Rouen, Normal School	30.48	774.1	30.52	775 3	61.5	16.4	52	sse.			1		0			0	0	clear	M. Platrier, Director.
Saint Maur, Observatory	30.34	770.6	30.50	774 8	62.1	16.7	45	ne.			1		0			0	0	clear	M. Renou, Director.
Toulouse, Observatory	29.75	755.6	30.48	774.2	66.2	19.0	47	e.			1		1		w.	0	0	clear	M. Baillaud, Director.
Versailles, Observatory	30.00	762.0	30.49	774.5	60.8	16.0	45	ne.			1					0	0		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	30.22	767.5	30.51	774.9	60.4	15.8	47	e.			1		0			0	0		M. Marié Davy, Director
GERMAN.																			
Hamberg	29.54	750.4	30.41	772 3	56.1	13.4	30	nw.			2	0	1 8			0	0		Prof. Dr. Hoh.
Berlin	30.15	765.7	30.32	770.2	58.3	14.6	42	sw.			3		0			0	0		Prof. Dr. Arndt.
Breslau	29.80	756.8	30.33	770.4	60.8	16.0	36	wnw.			2		0			0	0		Royal University Obs'y.
Carlsruhe	29.99	761.7	30.43	773 0	60.1	15.6	50	sw.			1		0			0	0		Albert Senz.
Cassel	29.67	753.5	30.38	771.6	58.1	14.5	46	nw.			2		0			0	0		Dr. H. Möll.
Frankfort on the Main	30.04	763.1	30.41	772 4	59.5	15.3	53	w.			1		0			0	0		Physical Society.
Friedrichshafen	29.00	736.6	30.47	773.9	50.0	10.0	77	s.			2		0			0	0		Wilhelm, Chief Tel.
Hamburg	30.30	769.6	30.39	772.0	52.9	11.6	67	wnw.			4		2			0	0		E. Preller.
Kiel	30.35	770.9	30.37	771.3	47.8	8.8	73	nnw.			1		9			0	0		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.96	761.0	30.38	771.7	59.5	15.3	41	nnw.			2		0			0	0	hazy	H. Leppig, Asst.
Magdeburg	30.17	766.4	30.37	771.3	59.7	15.4	45	w.			2	0	0			0	0		Dr. Assmann.
Memel	30.04	762.9	30.08	764.1	40.8	4.9	87	wsw.			5		1C					foggy	Iessermann.
Munich	28.56	725.4	30.45	773.4	59.5	15.3	42	nw.			2		0			0	0		Central Station
Neufahrwasser	30.15	765.9	30.17	766.3	53.8	12.7	58	w.			5		8			0	0		A. Lothes.
Neustadt, Palatinate	29.89	759.3	30.43	772 9	57.2	14.0	61	e.			1		0			0	0		Dicknether.
Stuttgart	29.46	748.2	30.35	770.9	61.3	16.3	45	n.			1		0			0	0		Prof. Dr. Schoder.
Wustrow	30.30	769.6	30.32	770.2	44.1	6.7	86	sw.			3	0	58			0	0		Profs. Brandes & Reimer.
GREEK.																			
Athens	29.73	755.1	30.13	765 2	49.6	9.8		ne.			4.0		8			0.118	3.0	raining	Schmidt & Wourlisch.
INDIAN.																			
Bellary	28.41	721.6			95.0	35.0	13	se.	4.3	1.9		2k	7			0	0	gloomy	
Kurrachee	29.99	761.8	30.04	763 1	77.3	25.2	77	wsw.	25	11.2			8	w.		0	0	gloomy	
Deesa	29.46	748.4	29.93	760 3	88.3	31.3	37	wsw.					8	w.		0	0	d. clouds	
Bombay	29.87	758.8	29.91	759.7	86.5	30.3	57	nnw.	19	8.5			0			0	0	blue sky	
Poona, Yarrowda	28.04	712.2	29.84	757.9	96.2	35.7	12	wsw.	20	8.9			5	w.		0	0	d. clouds	
Belgaum	27.37	695.3	29.86	758.5	86.5	30.3	42	wsw.	8	3.6			4	sw.		0	0	misty	
Lahore	29.17	741.0	29.91	759.8	84.0	28.9	24	e.	1.0	0.4						0	0	blue sky	
Roorkee	29.02	737.2	29.92	760.0	81.8	27.7	33	calm	1.3	0.6			9			0	0		
Agra	29.38	746.3	29.94	760.4	89.2	31.8	23	e.	2.0	0.9			4		e.	0	0		
Nagpur	28.83	732.3	29.84	758.0	96.5	35.8	14	calm	3.4	1.5			3	w.		0	0	d. clouds	
Jubbulpore	28.57	725.8	29.90	759.5	92.3	33.5	23	ne.	2.3	1.0			1			0	0	blue sky	
Lucknow	29.56	750.9	29.93	760.3	91.1	32.8	16	calm	1.7	0.8			8	wnw.		0	0	blue sky	
Allahabad	29.62	752.4	29.93	760.3	87.7	30.9	29	calm	0.8	0.4			3	sw.		0	0	d. clouds	
Patna	29.77	756.2	29.96	760 9	85.6	29.8	27	w.	2.1	0.9			6	w.	w.	0	0	d. clouds	
Hazaribagh	27.93	709.4	29.93	760.1	83.8	28.8	30	nnw.	7.3	3.3			0			0	0	blue sky	
Cuttack	29.85	758.3	29.94	760.3	87.3	30.7	54	sse.	0.7	0.3			3			0	0	d. clouds	
Calcutta, Alipore	29.91	759 6	29.93	760.2	81.5	27.5	40	nnw.	3.0	1.3			1	nnw.		0	0	d. clouds	
Dhubri	29.81	757.1	29.93	760.2	79.1	26.2	47	calm	2.4	1.1			0			0	0	blue sky	
Chittagong	29.88	758.8	29.97	761.1	81.2	27.3	78	wsw.	3.0	1 3			0			0	0	blue sky	
Sibsagar	29.62	752.4	29.97	761.1	74.9	23.8	70	ne.	1.8	0.8			0			0	0	blue sky	
Jeypore	28.49	723.7	29.92	760.0	87.4	30.8	27	nw.	3.1	1.4			8	nw.		0	0	d. clouds	
Zanzibar, Africa	29.80	756.9			88.5	31.4	59	ese.	5.0	2.2			4			0.26	6.6	d. clouds	
Trichinopoly	29.68	753.9			93.0	33.9	35	ese.	2	0.9			0			0	0	blue sky	
ITALIAN.																			
Udine	29.97	761.3	30.38	771 7	63.9	17.7	37	s.	0.7	0.3			0			0	0		Prof. Giovanni Cloding.
Milan	29.84	758.0	30.37	771.2	61.5	16.4	52	w.	4.3	1 9			0			0	0		Prof. Schiaparelli.
Padua	30.24	768.2	30.35	771.0	61.3	16.3	46	sw.	1.3	0.6			0			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.43	747.6	30.34	770.7	61.0	16.1	58	ne.	3.1	1.4			0			0	0		Prof. P. F. Denza.
Genoa	30.13	765.4	30.33	770 3	68.0	20.0	32	n.	4.9	2.2			0			0	0		Prof. G. M. Garibaldi.
Mondovi	28.43	722.2	30.35	771.0	57.7	14.3	45	w.			2		0			0	0		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
ITALIAN.—Continued.																			
Pesaro	30.30	769.6	30.35	770.8	55.9	13.3	63	n.	11.9	5.3	.....	.....	0	.....	.....	0	0	.....	Prof. Luigi Guidi.
Florence	30.05	763.2	30.30	769.7	68.4	20.2	24	ne.	.....	.....	4	.....	0	.....	.....	0	0	.....	Prof. Costantino Pitter.
Leghorn	30.18	766.5	30.26	768.7	62.1	16.7	41	nw.	2.5	1.1	.....	.....	0	.....	.....	0	0	.....	Prof. P. Monte.
Rome	30.09	764.2	30.26	768.6	64.8	18.2	25	w.	0	0	.....	.....	0	.....	.....	0	0	.....	Prof. P. S. Ferrari.
Lecce	29.95	760.8	30.21	767.3	58.5	14.7	46	n.	21.0	9.4	.....	.....	0	.....	.....	0	0	.....	Prof. C. de Giorgi.
Cosenza	29.93	745.0	30.22	767.7	59.0	15.0	72	wnw.	13.0	5.8	.....	.....	0	.....	.....	0	0	.....	Prof. D. Conti.
Cagliari	30.07	763.8	30.26	768.7	66.2	19.0	36	w.	.....	.....	2	.....	1	.....	.....	0	0	.....	Prof. A. Pacinotti.
Palermo	30.00	762.0	30.25	768.4	64.4	18.0	54	ne.	6.9	3.1	.....	.....	0	.....	.....	0	0	.....	Prof. G. Ciacciatore.
Syracuse	30.16	766.1	30.21	767.3	60.3	15.7	66	sw.	9.4	4.2	.....	.....	2	w.	.....	0	0	.....	Prof. Vincenzo Guiliano.
Sub-series.																			
Naples, S. R	29.70	754.3	30.22	767.6	65.3	18.5	40	n.	1.8	0.8	.....	.....	1	nne.	.....	0	0	.....	Prof. T. Brioschi.
Stelvio	22.46	570.6	.....	.....	37.9	3.3	38	ne.	.....	.....	2	.....	0	.....	.....	0	0	clear	Prof. P. F. Denza.
Valdobbia	22.50	571.6	.....	.....	40.6	4.8	51	ne.	.....	.....	2	.....	0	.....	.....	0	0	clear	Prof. P. F. Denza.
JAPANESE.																			
Aomori	29.88	758.9	29.92	759.9	38.4	3.6	74	ssw.	10.8	4.8	.....	0	2 8	.....	.....	0.017	0.4	fair	K. Ogawa.
Hakodate	29.87	758.7	29.88	758.9	45.5	7.5	83	wsw.	8.4	3.8	.....	.....	9	.....	.....	0.205	5.2	overcast	
Hiroshima, I. M. Obs'y	30.07	763.8	30.08	764.2	47.2	8.4	92	wsw.	0.6	0.3	.....	10 ck	0	.....	.....	inap.	inap.	covered	K. Sasaki.
Kanazawa	29.95	760.7	30.05	763.3	45.1	7.3	76	se.	4.0	1.8	.....	0	7 ks;s	.....	.....	0	0	cloudy	S. Endo.
Kioto	29.86	758.4	30.04	763.0	49.7	9.8	74	ssw.	4.1	1.8	.....	ck	7 s	.....	.....	0	0	cloudy	M. Tojima.
Kochi	30.08	764.0	30.10	764.5	48.6	9.2	95	w.	6.9	3.1	.....	0	4 ks;s	.....	.....	0.150	3.8	fair	
Nagasaki, I. M. Obs'y	29.96	761.0	30.18	766.6	44.2	6.8	92	calm	0	0	.....	0	0	.....	.....	0.140	3.6	clear	S. Takehayashi.
Niigata	29.96	761.0	30.00	762.0	44.3	6.8	73	sw.	7.0	3.1	.....	9 ck	0	.....	.....	0.055	1.4	cloudy	
Nobiru	29.96	761.0	29.97	761.2	41.6	5.3	93	nnw.	10.9	4.9	.....	0	2 s	.....	.....	0	0	fair	H. Midzushima.
Sapporo	.....	.....	.....	.....	39.8	4.3	81	se.	12.6	5.6	.....	.....	0	.....	.....	0.005	0.1	clear	
Tokei Obs'y, Yeddo	29.93	760.2	30.00	762.0	46.9	8.3	80	wnw.	3.5	1.6	.....	.....	10 s	.....	.....	0	0	cloudy	The Staff.
Wakayama	30.01	762.2	30.07	763.8	50.3	10.2	71	nw.	0.4	0.2	.....	.....	10 s	.....	.....	0	0	cloudy	Y. Kuwamura.
MAURITIUS.																			
Mauritius Observatory	29.74	755.4	29.93	760.2	80.3	26.8	64	nw.	8.0	3.6	.....	1 ck	1 k	.....	.....	0	0	clear	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.75	603.2	29.97	761.2	59.9	15.5	82	s.	.....	.....	.....	0	0	.....	.....	0	0	clear	Vicente Fernandez.
Leon	24.47	621.6	30.21	767.4	55.8	13.2	75	nne.	.....	.....	1	1	0	w.	.....	0	0	foggy	Prof. M. Leal.
Mazatlan	29.75	755.7	30.01	762.3	68.0	20.0	69	n.	.....	.....	.....	1 cs	0	.....	.....	0	0	clear	F. Quijano, C. E.
Mexico, Central Obs'y	23.16	588.2	30.26	768.5	52.7	11.5	55	sw.	0.4	0.2	.....	1	2	.....	.....	0	0	fine	M. Tena, M. D.
Morelia	24.23	615.3	30.35	770.9	58.1	14.5	79	se.	.....	.....	2	0	0	.....	.....	0	0	fine	The Staff.
Pabellon, Aguascallentes	24.01	609.8	30.06	763.4	50.7	10.4	70	.....	.....	.....	.....	2	0	.....	.....	0	0	foggy	M. Y.de Leon, M. E.
Puebla, Catholic Institute	23.48	596.5	30.32	770.2	48.2	9.0	50	ne.	1.8	0.8	.....	0	2	.....	w.	0	0	.....	Prof. P. Spina.
San Luis Potosi	24.26	617.3	30.27	768.9	55.7	13.1	76	o.	.....	.....	1	0	0	.....	.....	0	0	clear	G. Barreda, M. D.
Vera Cruz	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Zacatecas	22.65	575.1	30.28	769.2	56.6	13.6	62	.....	.....	.....	.....	0	0	.....	.....	0	0	fine	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.55	775.9	30.55	775.9	54.7	12.6	.....	n.	.....	.....	3	.....	.....	.....	.....	0.008	0.2	.....	
Gronlingen	30.42	772.6	30.47	774.0	49.5	9.7	.....	nnw.	.....	.....	3	.....	.....	.....	.....	0	0	.....	
Helder	30.50	774.6	30.50	774.6	47.1	8.4	.....	wnw.	.....	.....	3	.....	.....	.....	.....	0	0	.....	
Hellevoetsluis	30.51	775.0	30.51	775.0	55.8	13.2	62	nnw	.....	.....	2	.....	.....	.....	.....	0	0	.....	
Utrecht	30.47	773.9	30.52	775.1	55.8	13.2	51	nw.	.....	.....	2	.....	2	.....	.....	0	0	lightly cl'y	H. van der Brink.
NORWEGIAN.																			
Bergen	30.05	763.3	30.11	764.9	45.0	7.2	64	sw.	20	9	.....	.....	10	.....	.....	1.319	33.5	.....	
Brono	29.31	744.4	29.35	745.4	35.6	2.0	68	sw.	36	16	.....	.....	10	.....	.....	0.244	6.2	rain & snow	
Christiania	29.86	758.5	30.01	762.3	48.6	9.2	38	wsw.	9	4	.....	.....	1	.....	.....	0	0	.....	
Gjaesvar	28.74	729.9	28.76	730.5	24.8	— 4.0	.....	wnw.	.....	.....	8	.....	10	.....	.....	.....	.....	snowing	
Lodingen	29.13	740.0	29.18	741.2	27.1	— 2.7	62	wsw.	.....	.....	6	.....	10	.....	.....	0.189	4.8	.....	
PORTUGUESE.																			
Angra, Azores	.....	.....	.....	.....	58.6	14.8	80	se.	9.8	4.4	.....	.....	4	.....	.....	0	0	.....	Dr. J. A. Sampaio.
Campo Major	29.33	744.9	30.32	770.1	67.6	19.8	33	ene.	5.6	2.5	.....	.....	0	.....	.....	0	0	.....	Dr. A. M. R. dos Santos.
Funchal, Maderia	30.25	768.4	30.34	770.5	65.8	18.8	49	se.	2.5	1.1	.....	.....	2	.....	.....	0	0	.....	Capt. D. A. de Cunha.
Lisbon, Observatory	30.06	763.6	30.43	773.0	51.6	10.9	100	ne.	5.6	2.5	.....	.....	10	.....	.....	0	0	foggy	The Staff.
Ponta Delgada, Azores	30.32	770.0	30.39	771.8	57.6	14.2	89	calm	0	0	.....	.....	10	.....	.....	1.744	44.3	raining	
Saint Paul de Loando	29.71	754.5	29.90	759.5	82.8	28.2	89	wsw.	1.3	0.6	.....	.....	1	s	.....	0	0	.....	
Serra da Estrella	25.62	650.7	30.37	771.5	51.8	11.0	22	sse.	16.1	7.2	.....	.....	1	.....	.....	0	0	.....	
RUSSIAN.																			
Akmolinski	28.91	734.4	30.07	763.8	17.1	— 8.3	97	sw.	40	18	.....	0	8 k	.....	.....	0	0	.....	Major K. Lasarew.
Archangel	28.71	729.3	28.73	729.8	39.0	3.9	78	sw.	18	8	.....	.....	10	.....	.....	0.059	1.5	light clouds	Capt. Sselliwerstow.
Astrakhan	30.32	770.0	30.23	767.9	46.4	8.0	67	wsw.	9	4	.....	.....	10 ks	.....	.....	blank	blank	.....	Capt. Wisganow.
Barnaul	29.55	750.5	30.08	763.9	27.1	— 2.7	94	sw.	13	6	.....	.....	9	.....	.....	0.004	0.1	.....	Meteorological Obs'y.
Dorpat	29.43	747.5	29.68	753.8	38.8	3.8	92	w.	13	6	.....	.....	10 n	.....	.....	0	0	.....	Observatory.
Ekaterinburg	28.42	721.8	29.41	747.0	25.7	— 3.5	80	wnw.	9	4	.....	.....	10	.....	.....	0.035	0.9	snowing	Meteorological Obs'y.
Kasan	29.30	744.3	29.58	751.3	32.4	0.2	78	wsw.	13	6	.....	.....	10	.....	.....	0	0	.....	Observatory.
Kertch	30.19	766.8	30.21	767.3	46.9	8.3	65	nne.	4	2	.....	0	3 k	.....	.....	0	0	.....	Lagorio & Sastyrez.
Kieff	29.53	750.1	30.18	766.6	48.0	8.9	59	wsw.	16	7	.....	c	3 ks	.....	.....	0.008	0.2	.....	Observatory.
Lugan	29.98	761.4	30.19	766.7	46.6	8.1	47	wsw.	4	2	.....	.....	5	.....	.....	0	0	.....	Meteorological Obs'y.
Moscow	29.18	741.1	29.66	753.4	37.4	3.0	83	s.	13	6	.....	.....	10 s	.....	.....	0	0	.....	Meteorological Obs'y.
Nikolajev	30.25	768.4	30.32	770.2	48.2	9.0	45	nne.	4	2	.....	0	0	.....	.....	0	0	.....	Capt. Kurdakow.
Nikolaievsk, on the Amoor	29.67	753.5	29.75	755.7	3.9	—15.6	95	calm	0	0	.....	.....	0	.....	.....	0	0	.....	Lieut. Iwanow.
Pekin, China	29.77	756.1	29.91	759.7	54.5	12.5	48	calm	0	0	.....	0	1 k	.....	.....	0	0	.....	Physical Observatory
St. Petersburg	29.45	747.9	29.46	748.3	39.2	4.0	85	w.	16	7	.....	ck	7 n	.....	.....	0	0	.....	Central Physical Obs
Tashkend, Laboratory	28.62	726.9	30.23	767.9	45.7	7.6	70	nw.	7	3	.....	.....	10	.....	.....	0.157	4.0	.....	Teich, A. M.
Tiflis	28.83	732.3	30.29	769.3	47.1	8.4	49	se.	4	2	.....	0	4 k	.....	.....	0	0	.....	Physical Observatory
Vladivostok	29.61	752.0	29.67	753.7	30.6	— 0.8	100	se.	4	2	.....	.....	10 n	.....	.....	0	0	.....	
Warsaw	29.63	752.6	30.06	763.4	52.9	11.6	63	wnw.	13	6	.....	.....	9 ks	.....	.....	.....	.....	.....	Astronomical Obs'y
Wilna	29.61	752.0	30.03	762 7	49.6	9.8	73	wsw.	7	3	.....	.....	7	.....	.....	0	0	.....	Berg, Assistant.
Yeniseisk	29.57	751.0	29.87	758.6	29.5	— 1.4	79	wsw.	16	7	.....	.....	10	.....	.....	0.047	1.2	snowing	M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	30.30	769.6	30.41	772.3	61.5	16.4	69	se.	3.6	1.6	.....	.....	0	.....	.....	0	0	clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.44	773.2	30.50	774.7	62.1	16.7	64	w.	2.0	0.9	.....	0	0	.....	.....	0	0	clear	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.43	696.8	30.39	771.9	61.9	16.6	33	ne.	2.2	1.0	.....	0	3	.....	.....	0	0	lightly cl'dy	Domingo Martin.
Madrid, Royal Obs'y	28.17	715.6	30.41	772.5	62.6	17.0	45	sw.	2.2	1.0	.....	0	0	.....	.....	0	0	clear	The Staff.
Murcia, Met. Obs'y	30.27	768.9	30.43	772.8	67.5	19.7	61	s.	1.8	0.8	.....	0	3	.....	.....	0	0	clouds	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.47	748.5	30.37	771.4	61.0	16.1	71	calm	0	0	.....	.....	1	.....	.....	0.004	0.1	almost clear	R. Gil Vallanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I	30.16	766.0	30.23	767.7	70.5	21.4	76	e.	3.1	1.4	.....	0	5 k	.....	nc.	0	0	fair	Benito Vines, S. J.
Manilla, Philippine Islands	29.99	761.8	30.05	763.3	78.8	26.0	77	s.	1.1	0.5	.....	0	8 kn	.....	ene.	0.197	5.0	cloudy	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.26	768.6	30.30	771.2	66.0	18.9	47	e.	12.4	5.6	.....	0	1	.....	se.	0	0	.....	Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	30.06	763.4	30.15	765.7	71.2	21.8	94	s.	8.7	3.9	.....	3 k	4 kn	sw.	sw.	0.008	0.2	d. clouds	Manuel Maeu.
Tuguegarrto, Philippine Id's	29.94	760.5	30.07	763.8	75.9	24.4	80	nw.	4.7	2.1	.....	0	2 ks	.....	nnw.	0	0	clear	José L. Yrastorza.
SWEDISH																			
Haparanda	29.31	744.5	29.35	745.5	30.9	— 0.6	51	nw.	.....	.....	6	.....	0	.....	.....	0	0	.....	
Umea	29.52	749.8	29.57	751.1	39.2	4.0	42	nw.	.....	.....	4	.....	0	.....	.....	0	0	.....	
Hernosand	29.63	752.5	29.68	753.8	40.8	4.9	32	nw.	.....	.....	7	.....	0	.....	.....	.....	.....	.....	
Stockholm	29.67	753.7	29.85	758.2	36.3	2.4	96	nnw.	.....	.....	4	.....	10	.....	.....	0	0	raining	
Wisby	29.82	757.5	29.88	759.0	39.6	4.2	90	w.	.....	.....	4	.....	10	.....	.....	.....	.....	raining	
Sub-series.																			
Upsala	29.73	755.1	29.82	757.3	37.8	3.2	95	wnw.	5.4	2.4	.....	.....	7	.....	.....	0.071	1.8	.....	S. G. Fineman.
SWISS.																			
Geneva	29.01	736.9	30.44	773.2	54.0	12.2	56	n.	.....	.....	2	.....	.....	.....	.....	0	0	clear	The Observatory.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
TURKISH.																			
Constantinople	.....	.....	30.15	765.7	46.9	8.3	61	nne.	27	12.0	.....	.....	5	.....	ne.	0	0	.....	The Observatory.
Valona	.....	.....	30.17	766.3	62.4	16.9	.....	nw.	.....	.....	1	.....	0	.....	.....	0	0	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	29.76	755.8	63.0	17.2	66	w.	.....	.....	1	9 cs	0	sw	.....	0	0	.....	Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	30.36	771.1	30.45	773.4	24	— 4.4	73	nw.	2	0.9	.....	.....	0	.....	.....	0	0	clear	J. O. Barnes.
Alpena, Michigan	29.45	748.0	30.15	765.8	27	— 2.8	77	se.	15	6.7	.....	.....	10 s	.....	s.	0.01	0.3	cloudy	Jas. J. Fitzgerald.
Atlanta, Georgia	29.07	738.4	30.27	768.8	49.5	9.7	71	ne.	.....	.....	2	.....	10 n	.....	calm	0.03	0.8	light rain	H. Hall.
Atlantic City, New Jersey	30.37	771.4	30.38	771.6	24	— 4.4	73	n.	9	4.0	.....	8 ck	0	nw.	.....	0	0	cloudy	Jas. M. Watson.
Augusta, Georgia	30.13	765.3	30.33	770.4	52.4	11.3	72	calm	0	0	.....	.....	10s;sk	.....	.....	0	0	cloudy	John Healy.
Baltimore, Maryland	30.37	771.4	30.42	772.7	31	— 0.6	68	e.	5	2.2	.....	.....	10 s	.....	n.	0	0	cloudy	Robert Seyboth.
Barnegat, New Jersey	30.37	771.4	30.39	771.9	22.0	— 5.6	73	n.	17	7.6	.....	7 cs	0	.....	.....	0	0	fair	Chas. F. Merritt.
Bismarck, Dakota	28.38	720.8	30.30	769.6	22	— 5.6	87	nw.	13	5.8	.....	.....	10 n	.....	.....	0.27	6.9	light snow	Cyrus Cramer.
Boise City, Idaho	26.91	683.5	29.83	757.7	39	— 3.9	65	se.	20	8.9	.....	.....	10 s	.....	calm	0	0	cloudy	B. E. Light.
Boston, Massachusetts	30.20	767.1	30.36	771.1	17.0	— 8.3	67	nw.	12	5.4	.....	0	0	.....	.....	0	0	clear	O. B. Cole.
Brownsville, Texas	30.01	762.2	30.06	763.5	74	23.3	90	s.	12	5.4	.....	.....	10 s	.....	s.	0	0	cloudy	J. C. Galloway.
Buffalo, New York	29.46	748.3	30.25	768.3	19.1	— 7.2	74	ne.	9	4.0	.....	.....	10s;sk	.....	ne.	0.11	2.8	cloudy	Wm. Finn.
Burlington, Vermont	30.10	764.5	30.40	772.1	8.0	—13.3	76	se.	1	0.4	.....	0	0	.....	.....	0	0	clear	G. C. Schaeffer.
Cairo, Illinois	29.62	752.3	30.04	763.0	55.6	13.1	76	w.	1	0.4	.....	1 c	1 s	w.	w.	inap.	inap.	clear	W. H. Ray.
Campo, California	27.46	697.5	30.07	763.8	31.4	— 0.3	88	s.	2	0.9	.....	0	0	.....	.....	0	0	clear	W. H. Clendenon.
Camp Thomas, Arizona	27.28	692.9	30.06	763.5	37	2.8	64	calm	.....	.....	0	0	0	.....	.....	0	0	clear	J. T. Fitzgerald.
Cape Henry, Virginia	30.38	771.6	30.40	772.1	36	2.2	69	s.	6	2.7	.....	.....	10 s	.....	.....	0	0	cloudy	J. E. Lanouette.
Cape May, New Jersey	30.37	771.4	30.40	772.1	26	— 3.3	51	nw.	5	2.2	.....	.....	10 s	.....	nw.	0	0	cloudy	W. Bolten.
Castroville, Texas	29.28	743.7	30.11	764.8	69	20.6	90	se.	2	0.9	.....	.....	10 ks	.....	sw.	0	0	cloudy	T. Jones.
Cedar Keys, Florida	30.24	768.1	30.26	768.6	62	16.7	72	s.	13	5.8	.....	0	0	.....	.....	0	0	clear	F. W. Mixer.
Champaign, Illinois	29.03	737.3	29.89	759.2	40.8	4.9	82	sw.	17	7.6	.....	0	0	.....	.....	inap.	inap.	clear	L. A. Welsh.
Charleston, S. Carolina	30.22	767.6	30.28	769.1	54	12.2	86	w.	3	1.3	.....	.....	10s;fg	.....	nw.	0	0	threatening	J. H. Smith.
Charlotte, N. Carolina	29.38	746.2	30.26	768.6	45.0	7.2	60	se.	5	2.2	.....	10 cs	fg.	.....	.....	0	0	cloudy	D. O. Donoghue.
Chattanooga, Tennessee	29 33	745.0	30.18	766.6	50.0	10.0	77	sw.	6	2.7	.....	4 ck	fg.	w.	.....	0.28	7.1	fair	B. L. Goulding.
Cheyenne, Wyoming	24.11	612.4	30.29	769.4	22.3	— 5.4	52	n.	2	0.9	.....	0	c	.....	.....	0	0	clear	E. McGovern.
Chicago, Illinois	29.13	739.9	29.87	758.7	37.8	3.2	93	s.	6	2.7	.....	0	0	.....	.....	0.35	8.9	clear	J. Mitchell.
Chincoteague, Virginia	30.38	771.6	30.40	772.1	32	0.0	78	ne.	7	3.1	.....	6 ck;c	3 s	nw;w	.....	0	0	cloudy	F. C. Pratz.
Cincinnati, Ohio	29.32	744.7	30.01	762.2	44	6.7	76	e.	16	2.7	.....	0	0	.....	.....	0.16	4.1	clear	R. B. Watkins.
Cleveland, Ohio	29.34	745.2	30.12	765.0	29.4	— 1.4	89	se.	15	6.7	.....	.....	10 n	.....	.....	0.02	0.5	light snow	J. B. Newlin.
Coleman City, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	L. Dorman.
Columbus, Ohio	28.15	740.4	30.04	763 0	37	2.8	82	se.	11	4.9	.....	.....	10 s	.....	.....	0.11	2.8	cloudy	D. Cuthbertson.
Concho, Texas	28.18	715.8	30.15	765.8	63	17.2	90	sw.	8	3.6	.....	.....	10 s	.....	.....	0	0	cloudy	W. W. McConihe.
Davenport, Iowa	29.23	742.4	29.92	760.0	32	0.0	78	nw.	3	1.3	.....	.....	fg.	.....	calm	0.02	0.5	dense fog	R. R. Martin.
Dayton, Washington T'y	28.03	711.9	29.84	757.9	40.3	4.6	78	e.	1	0.4	.....	.....	10 s	.....	.....	0	0	cloudy	H. Clifford.
Deadwood, Dakota	25.48	647.2	30.32	770.1	26	— 3.3	88	ne.	3	1.3	.....	.....	10 n	.....	.....	0.01	0.3	light snow	G. W. Scott.
Decatur, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	D. J. Carr.
Delaware Breakwater, Del	30.39	771.9	30.41	772.4	29	— 1.7	67	ne.	14	6.3	.....	9 k	0	nw.	.....	0	0	cloudy	A. Schneider.
Denison, Texas	29.22	742.2	30.05	763.3	68.0	20.0	90	sw.	11	4.9	.....	.....	10 s	.....	sw.	0	0	cloudy	J. McGlone.
Denver, Colorado	24.82	630.4	30.26	768.6	31.0	— 0.6	60	s.	2	0.9	.....	0	0	.....	.....	0	0	clear	F. M. Neal.
Des Moines, Iowa	29.07	738.4	30.03	762.7	37	2.8	72	nw.	10	4.5	.....	0	3 s	.....	nw.	0.03	0.8	clear	F. W. Conrad.
Detroit, Michigan	29.35	745.5	30.10	764.5	35.8	2.1	89	se.	13	5.8	.....	.....	10 n	.....	calm	0.10	2.5	light snow	C. F. R. Wappenhans.
Dodge City, Kansas	27.52	699.0	30.25	768.3	34	1.1	51	n.	13	5.8	.....	0	0	.....	.....	0	0	clear	E. A. Thomas.
Dubuque, Iowa	29.12	739.6	29.87	758.7	33.3	0.7	81	sw.	2	0.9	.....	.....	10 s	.....	calm	0.06	1.5	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.29	744.0	30.03	762.7	32	0.0	88	ne.	12	5.4	.....	.....	10 s	.....	ne.	0.14	3.6	cloudy	N. B. Conger.
Eagle Pass, Texas	29.27	743.4	30.09	764.3	69.0	20.6	93	se.	5	2.2	.....	.....	10 s	.....	se.	inap.	inap.	cloudy	F. Belford.
Eagle Rock, Idaho	25.24	641.1	30.12	765.0	24	— 4.4	67	sw.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. M. Clifford.
Eastport, Maine	30.18	766.6	30.26	768.6	19	— 7.2	70	nw.	17	7.6	.....	0	0	.....	.....	0	0	clear	J. H. Melton.
El Paso, Texas	26.32	668.5	30.12	765.0	55	12.8	31	w.	6	2.7	.....	4 ck	0	sw.	.....	0	0	fair	J. F. Marshall.
Erie, Pennsylvania	29.41	747.0	30.18	766.6	29	— 1.7	88	s.	16	7.2	.....	.....	10 s	.....	.....	0	0	cloudy	R. H. Paxton.
Escanaba, Michigan	29.36	745.7	30.07	763.8	30	— 1.1	88	e.	7	3.1	.....	.....	10 n	.....	.....	0.19	4.8	light snow	C. Dill.
Florence, Arizona	28.53	724.6	30.10	764.5	44.5	6.9	46	sw.	3	1.3	.....	4 cs	0	sw.	.....	0	0	fair	R. R. Herman.
Fort Apache, Arizona	25.11	637.8	30.13	765.3	28	— 2.2	61	ne.	2	0.9	.....	0	0	.....	.....	0	0	clear	W. O. Barnes.
Fort Assinnaboine, Montana	27.35	694.7	30.36	771.1	22	— 5.6	48	ne.	9	4.0	.....	.....	10 s	.....	ne.	0.03	0.8	cloudy	B. O. Lenoir.
Fort Bennett, Dakota	28.59	726.2	30.29	769.4	25	— 3.9	76	nw.	20	8.9	.....	0	0	.....	.....	0	0	clear	T. Gibson.
Fort Benton, Montana	27.33	694.2	30.31	769.9	24	— 4.4	76	ne.	3	1.3	.....	.....	10 s	.....	calm	0.01	0.3	cloudy	S. Wheaton.
Fort Buford, Dakota	28.29	718.6	30.43	772.9	20	— 6.7	73	nw.	6	2.7	.....	.....	10 s	.....	calm	0	0	cloudy	A. H. Bell.
Fort Custer, Montana	27.00	685.8	30.33	770.4	29	— 1.7	70	ne.	6	2.7	.....	.....	10 s	.....	calm	0	0	cloudy	V. Verge.
Fort Davis, Texas	25.25	641.3	30.13	765.3	54	12.2	77	w.	2	0.9	.....	.....	10 ks	.....	calm	0	0	cloudy	J. Williams.
Fort Elliott, Texas	27.27	692.6	30.10	764.5	45	7.2	56	nw	12	5.4	.....	0	0	.....	.....	0	0	clear	W. J. Cundall.
Fort Gibson, Indian T'y	29.43	747.5	30.02	762.5	64.4	18.0	90	calm	0	0	.....	.....	10 s	.....	w.	0	0	cloudy	J. B. Campbell.
Fort Grant, Arizona	25.30	642.6	30.13	765.3	56	13.3	31	e.	6	2.7	.....	0	7 s	.....	.....	0	0	fair	T. J. Macgowan.
Fort Griffin, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	G. H. Rayne.
Fort Keogh, Montana	27.71	703.8	30.36	771.1	30	— 1.1	70	ne.	5	2.2	.....	.....	10 s	.....	.....	0	0	cloudy	W. B. Stockman.
Fort Macon, North Carolina	30.34	770.6	30.34	770.6	44	6.7	76	ne.	17	7.6	.....	10 k	0	ne.	.....	0	0	cloudy	L. Leonardy.
Fort McKavett, Texas	27.86	707.6	30.18	766.6	67.2	19.6	90	s.	10	4.5	.....	.....	10 ks	.....	.....	0	0	cloudy	J. E. Thatcher.
Fort Missoula, Montana	26.63	676.4	30.01	762.2	30	— 1.1	81	ne.	13	5.8	.....	0	0	.....	.....	0	0	clear	J. H. Jones.
Fort St. Michaels, Alaska	30.18	766.6	30.21	767.3	29	— 1.7	89	se.	8	3.6	.....	0	5 s	.....	se.	0	0	fair	A. P. Leavitt.
Fort Shaw, Montana	26.48	672.6	30.28	769.1	21	— 6.1	87	ne.	1	0.4	.....	.....	10 s	.....	.....	0.06	1.5	cloudy	A. L. Mathews.
Fort Sill, Indian Territory	28.76	730.5	30.05	763.3	55.5	13.1	94	calm	0	0	.....	.....	fg.	.....	.....	0	0	dense fog	T. Cleary.
Fort Verde, Arizona	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. Burrows.
Fort Washakie, Wyoming	24.50	622.3	.....	.....	30	— 1.1	51	nw.	.....	.....	1	0	0	.....	.....	0	0	clear	D. Brooks.
Fredericksburg, Texas	28.33	719.6	30.09	764.3	25.1	— 3.8	61	nw.	3	1.3	.....	0	0	.....	.....	0	0	clear	T. M. Ambler.
Galveston, Texas	30.09	764.3	30.13	765.3	66	18.9	93	sw.	10	4.5	.....	.....	10 ks	.....	sw.	0	0	cloudy	H. S. Miles.
Grand Haven, Michigan	29.24	742.7	29.94	760.5	70	21.1	95	s.	9	4.0	.....	0	5 s	.....	s.	0	0	fair	E. O'C. MacInerney.
Hatteras, North Carolina	30.34	770.6	30.36	771.1	33.0	0.6	88	e.	10	4.5	.....	.....	10 s	.....	e.	0.11	2.8	cloudy	W. A. Reid.
Helena, Montana	25.82	655.8	30.19	766.8	42	5.6	65	e.	14	6.3	.....	6 ck	3 s	ne.	.....	0	0	cloudy	R. M. Crawford.
Henrietta, Texas	29.07	738.4	30.11	764.8	24	— 4.4	64	ne.	4	1.8	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	N. O. Smith.
Huron, Dakota	28 69	728.7	30.17	766.3	60	15.6	87	s.	6	2.7	.....	.....	9 s	.....	.....	0.02	0.5	cloudy	J. W. Byram.
Indianapolis, Indiana	29.11	739.4	29.95	760.7	29.8	— 1.2	70	nw.	30	13.4	.....	.....	10 s	.....	.....	0.01	0.3	cloudy	S. W. Glenn.
Indianola, Texas	30.10	764.5	30.12	765.0	40	4.4	82	se.	4	1.8	.....	0	fg.	.....	calm	0.10	2.5	clear	O. Schutze
Jacksboro, Texas	28.91	734.3	30.12	765.0	71.1	21.7	94	s.	14	6.3	.....	4 k	0	s.	.....	0	0	fair	I. A. Reed.
Jacksonville, Florida	30.27	768.8	30.32	770.1	65	18.3	90	sw.	2	0.9	.....	.....	10 ks	.....	sw.	0	0	cloudy	J. P. Sherry.
Keokuk, Iowa	29.27	743.4	29.96	761.0	51	10.6	86	e.	4	1.8	.....	0	fg.	.....	.....	0	0	clear	J. W. Smith.
Key West, Florida	30.25	768.3	30.27	768.8	41.0	5.0	70	calm	0	0	.....	0	0	.....	.....	0.01	0.3	clear	F. Z. Gosewisch
Kittyhawk, North Carolina	30.37	771.4	30.39	771.9	70.0	21.1	62	ne.	14	6.3	.....	0	2 k	.....	ne.	0	0	clear	L. M. Melbourne.
Knoxville, Tennessee	29.11	739.4	30.17	766.3	40	4.4	65	e.	9	4.0	.....	.....	10 s	.....	.....	0	0	cloudy	E. A. Beals.
La Crosse, Wisconsin	29.06	738.1	29.88	758.9	47.5	8.6	83	w.	9	4.0	.....	.....	10 n	.....	w.	0.07	1.8	light rain	J. A. Cody.
La Mesilla, New Mexico	26.18	665.0	30.13	765.3	36.4	2.4	89	e.	1	0.4	.....	.....	10 n	.....	.....	0.18	4.6	light snow	S. C. Emery.
Leavenworth, Kansas	29.19	741.4	30.13	765.3	39.5	4.2	39	calm	0	0	.....	0	1 s	.....	.....	0	0	clear	N. D. Lane.
Lewiston, Idaho	28.95	735.3	29.81	757.2	42	5.6	58	nw.	12	5.4	.....	0	0	.....	.....	0	0	clear	A. W. Browne.
Little Rock, Arkansas	29.71	754.6	30.04	763.0	41.2	5.1	78	s.	2	0.9	.....	.....	10 s	.....	.....	0.01	0.3	cloudy	W. Blake.
Los Angeles, California	29.70	754.4	30.10	764.5	63	17.2	93	sw.	2	0.9	.....	.....	10 s	.....	sw.	0.02	0.5	cloudy	M. F. Burrows.
Louisville, Kentucky	29.38	746.2	29.97	761.2	49.1	9.5	86	ne.	4	1.8	.....	.....	10 n	.....	calm	0.32	8.1	heavy rain	E. F. Kubel.
Lynchburg, Virginia	29.63	752.6	30.35	770.9	50	10.0	71	sw.	12	5.4	.....	0	2 s	.....	.....	0.01	0.3	clear	H. C. Smith.
Madison, Wisconsin	28.82	732.0	29.89	759.2	34.0	1.1	85	e.	3	1.3	.....	.....	10 n	.....	.....	0.01	0.3	light snow	T. H. Breen.
Marquette, Michigan	29.31	744.5	30.08	764.0	35	1.7	89	se.	3	1.3	.....	.....	10 s	.....	w.	0.28	7.1	cloudy	C. A. Shaw.
Mason, Texas	28.43	722.1	30.12	765.0	27	— 2.8	80	se.	1	0.4	.....	.....	10 n	.....	calm	0.08	2.0	light snow	I. Gilligan.
Memphis, Tennessee	29.74	755.4	30.10	764.5	69.2	20.7	90	sw.	9	4.0	.....	.....	10 s	.....	sw.	0	0	cloudy	A. M. Wilson.
					58	14.4	74	s.	8	3.6	.....	0	1 s	.....	s.	0.02	0.5	clear	D. T. Flannery.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–01	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
UNITED STATES.—Cont'd.																			
Milwaukee, Wisconsin	29.12	739.6	29.91	759.7	38	3.3	89	se.	6	2.7			10s;fg		se.	0.17	4.3	threatening.	W. Line.
Mobile, Alabama	30.20	767.1	30.24	768.1	58	14.4	87	calm	0	0		3 ck	0	nw.		0	0	clear	J. D. Paxton.
Montgomery, Alabama	29.99	761.7	30.23	767.8	54.4	12.4	73	sw.	4	1.8		7 cs; k	hz.	w.		0	0	fair	J. B. McLaughlin.
Moorhead, Minnesota	28.92	734.6	30.00	762.0	27	— 2.8	100	ne.	16	7.2			10 n			0.32	8.1	light snow	H. Bessant.
Morgantown, W. Virginia	29.12	739.6	30.18	766.6	33.5	0.8	76	se.	8	3.6			10 n			0.07	1.8	light snow	J. Sprigg, jr.
Mt. Washington, N. H.	23.65	600.7	30.17	766.3	2.0	—16.7	67	nw.	21	9.4		0	0			0	0	clear	J. G. Linsley.
Nashville, Tennessee	29.52	749.8	30.08	764.0	56.2	13.4	68	calm	0	0		10 cs	0	w.		0.02	0.5	cloudy	L. A. Jesunofsky.
New Haven, Connecticut	30.29	769.4	30.41	772.4	17	— 8.3	67	nw.	5	2.2		3 c	0	w.		0	0	clear	J. H. Sherman.
New London, Connecticut	30.36	771.1	30.41	772.4	22	— 5.6	42	nw.	8	3.6		0	0			0	0	clear	J. G. Lynch.
New Orleans, Louisiana	30.13	765.3	30.19	766.8	63.5	17.5	86	s.	3	1.3		4 c	sk.	w.		0	0	fair	A. J. Armstrong.
Newport, Rhode Island	30.31	769.9	30.36	771.1	20.3	— 6.5	57	n.	8	3.6		0	hz.			0	0	clear	W. McGillivray.
New River, N. Carolina					44	6.7	68	ne.			1	4 ck	5 s	w.		0	0	cloudy	C. C. Corbin.
New Shoreham, Rhode I'd.	30.34	770.6	30.37	771.4	22.2	— 5.4	58	ne.	21	9.4		0	0			0	0	clear	W. Davis.
New York, New York	30.23	767.8	30.41	772.4	22	— 5.6	58	n.	4	1.8		0	6 s		nw.	0	0	fair	E. B. Garriott.
Norfolk, Virginia	30.36	771.1	30.39	771.9	38	3.3	72	e.	4	1.8			10 s			0	0	cloudy	J. T. Elker.
North Platte, Nebraska	27.24	691.9	30.30	769.6	31.6	— 0.2	66	w.	5	2.2		0	0			0	0	clear	E. F. Brady.
Olympia, Washington T'y	29.72	754.9	29.76	755.9	40.0	4.4	86	ne.	1	0.4		0	5 s		calm	0.14	3.6	fair	J. Dascomb.
Omaha, Nebraska	28.91	734.3	30.16	766.1	37.2	2.9	66	nw.	14	6.3		0	0			inap.	inap.	clear	A. Pollak.
Ooglaamie, Pt. Barrow, Alas.	30.55	776.0	30.57	776.5	—19.0	—28.3	49	n.	6	2.7		0	0			0.02	0.5	clear	P. H. Ray.
Oswego, New York	30.00	762.0	30.34	770.6	17.3	— 8.2	67	se.	6	2.7		0	0			0	0	clear	S. W. Beall.
Palestine, Texas	29.53	750.0	30.10	764.5	70	21.1	90	s.	12	5.4			10 s			0	0	cloudy	L. M. Pindell.
Pensacola, Florida	30.22	767.6	30.25	768.3	57.0	13.9	86	e.	0	0		0	10 s		w.	0	0	clear	M. McGauran.
Philadelphia, Pa.	30.31	769.9	30.41	772.4	26	— 3.3	76	ne.	8	3.6		70k;cs	0	nw.		0	0	fair	T. F. Townsend.
Pike's Peak, Colorado	17.68	449.1	30.28	769.1	6	—14.4	76	sw.	44	19.7		0	2 s			0	0	clear	L. M. Dey.
Ploche, Nevada	23.98	609 1	30.12	765.0	31	— 0.6	65	se.	8	3.6		0	0			0	0	clear	C. K. Kitchel.
Pittsburg, Pennsylvania	29.32	744.7	30.17	768.3	31.3	— 0.4	78	se.	8	3.6			10 n			inap.	inap.	light snow	J. H. Bryce.
Port Eads, Louisiana	30.21	767.3	30.22	767.6	64.2	17.9	92	s.	8	3.6		2 c	hz.	w.		inap.	inap.	clear	H. G. Christian.
Port Huron, Michigan	29.40	746.7	30.12	765.0	26.5	— 3.1	92	e.	7	3.1			10 n			0.27	6.9	light snow	W. O. Bailey.
Portland, Maine	30.27	768.8	30.32	770.1	22.0	— 5.6	58	nw.	12	5.4		0	0			0	0	clear	D. C. Murphy.
Portland, Oregon	29.65	753.1	29.72	754.9	38.0	3.3	89	nw.	4	1.8			10 s		w.	0.18	4.6	cloudy	M. L. Hearne.
Portsmouth, N. Carolina					42	5.6	65	ne.	18	8.0			10 s		ne.	0	0	cloudy	F. P. Chaffee.
Prescott, Arizona	24.75	628.6	30.09	764.3	28	— 2.2	43	s.	2	0.9		0	0			0	0	clear	J. Mc N. Wright.
Provincetown, Mass.	30.31	769.9	30.34	770.6	26	— 3.3	76	n.	9	4.0		3 k	3 s	nw.		inap.	inap.	fair	P. T. Jenkins.
Punta Rassa, Florida	30.25	768.3	30.26	768.6	58	14.4	74	ne.	6	2.7		0	0			0	0	clear	W. J. Evans.
Red Bluff, California	29.32	744.7	29.70	754.4	42.1	5.6	89	se.	12	5.4			10 s			0.04	1.0	cloudy	J. M. Frantz.
Rio Grande City, Texas	29.80	756.9	30.04	763.0	70	21.1	90	se.	8	3.6		5 c	0	calm		0	0	fair	W. H. Taylor.
Rochester, New York	29.61	752.1	30.31	769.9	19	— 7.2	84	se.	11	4.9		6 cs	sk.	w.		0	0	fair	A. T. Sherwood.
Roseburg, Oregon	29.15	740.4	29.71	754.6	35.5	1.9	89	nw.	2	0.9			fg.			0.13	3.3	dense fog	J. J. Nanry.
Sacramento, California	29.67	753.6	29.75	755.6	44.9	7.2	93	se.	8	3.6			10 n			0.96	24.4	light rain	J. A. Barwick.
St. Louis, Missouri	29.34	745.2	29.97	761.2	52.6	11.4	86	sw.	13	5.8		0	0			inap.	inap.	clear	J. H. Webber.
St. Paul, Minnesota	28.99	736.3	29.91	759.7	32.5	0.3	83	ne.	6	2.7			10 n			0.46	11.7	sleeting	O. S. M. Cone.
St. Vincent, Minnesota	29.26	743.2	30.20	767.1	22	— 5.6	88	n.	7	3.1			10 s		calm	0.13	3.3	cloudy	G. Kingsbury.
Salt Lake City, Utah	25.58	649.7	30.10	764.5	38	3.3	48	se.	3	1.3		0	0			0	0	clear	J. Craig.
San Antonio, Texas	29.39	746.5	30.10	764.5	68.5	20.3	90	se.	1	0.4		4 c	3 ks	se.	se.	0	0	cloudy	E. Lane.
San Diego, California	30.02	762.5	30.09	764.3	51.3	10.7	82	e.	4	1.8		7 k	3 s	w.		0.07	1.8	cloudy	A. C. Dobbins.
Sandusky, Ohio	29.35	745.5	30.07	763.8	32	0.0	88	se.	12	5.4			10 s			0.02	0.5	cloudy	M. H. Perry.
Sandy Hook, New Jersey	30.38	771.6	30.42	772.7	23.0	— 5.0	73	n.	11	4.9		3 ck	0	n.		0	0	clear	B. A. Blundon.
San Francisco, California	29.69	754.1	29.76	755.9	48	8.9	81	se.	11	4.9			10 n		se.	0.63	16.0	light rain	N. Gorom.
Santa Fé, New Mexico	23.30	591.8	30.28	769.1	39.6	4.2	32	ne.	16	7.2		0	0			0	0	clear	H. N. Jones.
Savannah, Georgia	30.20	767.1	30.30	769.6	53	11.7	77	s.	1	0.4		2 c	3 ks	nw.		0	0	fair	H. M. Ford.
Shreveport, Louisiana	29.88	758.9	30.13	765.3	67	19.4	93	s.	3	1.3			10 s			0	0	threatening	E. N. Meekins.
Silver City, New Mexico	24.33	618.0	30.11	764.8	32	0.0	47	nw.	4	1.8		0	0			0	0	clear	J. B. Wallace.
Sitka, Alaska	29.99	761.7	30.05	763.3	24.5	— 4.2	58	e.	4	1.8		0	0			0	0	clear	J. J. McLean.
Smithville, North Carolina	30.28	769.1	30.32	770.1	50	10.0	77	nw.	4	1.8			10 s		nw.	0	0	cloudy	J. C. Rickit.
Spokane Falls, Wash. Ter.	27.79	705.9	29.92	760.0	39	3.9	65	e.	8	3.6			10 s			0.01	0.3	cloudy	D. Moore.
Springfield, Illinois	29.22	742.2	29.94	760.5	46	7.8	76	w.	8	3.6		0	0			0.03	0.8	clear	T. B. Jennings.
Springfield, Massachusetts	30.27	768.8	30.41	772.4	21.9	— 5.6	48	n.	2	0.9		0	0			0	0	clear	T. S. Outram.
Springfield, Mo.	28.58	725.9	30.14	765.5	59	15.0	93	w.	3	1.3		0	8 ks		w.	0.38	9.7	cloudy	J. B. Marbury.
Stockton, Texas	27.03	686.5	30.11	764.8	57.0	13.9	83	calm	0	0		0	7 s		s.	0	0	fair	J. O'Dowd.
Thatcher's Island, Mass.	30.23	767.8	30.29	769.4	23.0	— 5.0	73	n.	13	5.8		0	0			0	0	clear	G. Liebmann.
Toledo, Ohio	29.32	744.7	30.05	763.3	33	0.6	88	e.	8	3.6			10 n			0.08	2.0	light rain	A. Buell.
Tucson, Arizona	27.61	701.3	30.07	763.8	46	7.8	44	s.	7	3.1		4 ck	0			0	0	fair	J. L. Whiteside.
Umatilla, Oregon	29.42	747.3	29.80	756.9	42.7	5.9	90	sw.	5	2.2			10 s			0.07	1.8	threatening	R. P. Sibley.
Uvalde, Texas	29.09	738.9	30.07	763.8	70	21.1	90	se.	6	2.7			10 s		se.	0	0	cloudy	E. C. Imlay.
Vicksburg, Mississippi	29.93	760.2	30.19	766.8	64	17.8	78	s.	4	1.8		4 k	4 ks	s.	calm	0	0	cloudy	T. J. Kenan.
Visalia, California	29.50	749.3	29.88	758.9	51	10.6	86	sw.	10	4.5			10 n			0.19	4.8	light rain	J. T. Cochran.
Washington, D. C.	30.27	768.8	30.39	771.9	30	— 1.1	77	e.	5	2.2			10 s; hs		w.	0	0	cloudy	B. M. Purssell.
West Las Animas, Colorado	26.18	665.0	30.26	768.6	24.5	— 4.2	57	calm	0	0	1	0	0			0	0	clear	J. Grover.
Wickenburg, Arizona					33.0	0.6	74	nw.				0	0			0	0	clear	H. A. Kremp.
Williamsport, Pa.	29.72	754.9	30.35	770.9	25	— 3.9	88	ne.	4	1.8			10 s		nw	inap.	inap.	cloudy	B. F. Hough.
Wilmington, N. Carolina	30.26	768.6	30.32	770.1	48	8.9	71	e.	6	2.7			10s;sk		w;c	0	0	cloudy	S. A. Haney.
Winnemucca, Nevada	25.31	642.9	29.81	757.2	34	1.1	81	se.	2	0.9		0	8 ks		sw.	0.06	1.5	cloudy	J. R. Williams.
Yankton, Dakota	28.80	731.5	30.19	766.8	31	— 0.6	78	nw.	27	12.1		10 cs	0	w.		0	0	cloudy	J. H. Atfield.
Yuma, Arizona	29.88	758.9	30.03	762.7	53.0	11.7	61	sw.	2	0.9		0	0			0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.07	560.6			55.5	13.1	72	w.	2	0.9		8 k	2 s	n.		0	0	cloudy	Joaquin Gomez.
Bridgetown, Barbados, W. I.	30.09	764.3	30.10	764.5	78	25.6	86	e.				5 k	5 ks	e.	e.	0	0	fair	J. A. Racker.
Buenaventura, U. S. C.	30.02	762.5	30.04	763.0	76	24.4	90	ne.	4	1.8			10 n		n.	2.45	62.2	raining	J. I. Plume.
Guadeloupe, W. I.	29.99	761.7	30.01	762.2	76	24.4	83	e.				7 k	0			0	0	hazy	B. Bigar.
Havana, Cuba, W. I.	30.21	767.3	30.26	768.6	74	23.3	71	se.	1.2	0.5		0	5 ks		ese.	0	0	fair	A. Van Caneghem.
Kingston, Jamaica, W. I.	30.11	764.8	30.12	765.0	70.0	21.1	88	n.	1	0.4		0	1 s		e.	0	0		Robert Johnston.
Navassa	30.12	765.0	30.20	767.1	76	24.4	81	ne.	9	4.0		5 ck	2 s	e.	ne.	0	0		F. M. Everett.
Paramaribo, S. A.	30.05	763.3	30.05	763.3	78	25.6	86	e.			3	4 c	5 k	e.		0	0	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.51	749.5	29.97	761.2	79	26.1	86	calm			0	4 ck	5 ks	calm	calm	0	0	cloudy	Miss Flora A. Nichols.
Rivas							88	ne.			4	cs;d	1 ks	e.	ne.	0	0	clear	Robert Mason.
Santiago de Cuba, W. I.	30.10	764.5	30.13	765.3	74	23.3	76	n.	9.6	4.3		0	2 s		n.	0	0	fair	
York Factory, B. A.	29.86	758.4	29.91	759.7	— 6.0	—21.1	81	sw.	18	8.0		0	0			0	0	clear	W. Wood.

STATIONS AND VESSELS.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.			Force.	Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.			Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
BRITISH NAVAL.																		
H. M. S. Agincourt, N. 39° 53′, E. 4° 30′	30.42	772.7	58	14.4	93	nw.			1		4	nnw.						d. clouds.
H. M. S. Albatross, Canton, China	30.20	767.1	70	21.1		calm			0		6							d. clouds.
H. M. S Alert, S. 4° 53′ E. 53° 24′	29.89	759.2	85.5	29.7	74	nne.			1–2		4							d. clouds.
H. M. S. Alexandra, Malta, Mediterranean	30.23	767.8	64.5	18.1	70	n.			1		3							d. clouds.
H. M. S. Bacchante, Alexandria, Egypt	29.84	757.9	59	15.0	76	wnw.			3–4		8	wnw.						squally.
H. M. S. Boadicea, S. 33° 54′, E. 18° 26′	29.98	761.5	69	20.6	73	w.			1		0							blue sky.
H. M. S. S. S. Champion, Coquimbo, Chili	29.97	761.2	63	17.2	83	calm			0		10	calm						overcast.
H. M. S. Cleopatra, N. 20° 28′ E. 38° 47′	29.74	755.4	79	26.1	95	se.			4		0					2	sse.	blue sky.
H. M. S. Comus, N. 4° 04′, E. 111° 42	29.97	761.2	80	26.7	93	nne.			2		3					2	ne.	d. clouds.
H. M. S. Diamond, S 37° 45′, E. 97° 18′	30.33	770.4	58	14.4	78	ene.			1		10					2	sse.	overcast.
H. M. S. Dido, N. 14° 44′, W. 61° 11′	30.09	764.3	75	23.9		ne.			1		4	ne.						d. clouds.
H. M. Dock-Yard, Bermuda, W. I.	30.08	764.0	53.5	11.9	62	wnw.			6		4	wnw.						squally.
H. M. S. Dwarf, S. 34° 35′, W. 58° 19′	29.91	759.7	59	15.0	91	ssw.			1		8							d. clouds.
H. M. S. Eclipse, S. 16° 00′, E. 45° 28′	29.83	757.7	84	28.9		nne.			1		3							d. clouds.
H. M. S. Euryalus, Suez, Egypt	29.72	754.9	69	20.6	60	nnw.			3		6	calm						d. clouds.
H. M. S. Fawn, Zebayer I'd., Red Sea	29.76	755.9	79.5	26.4	78	s.			4		0					3	s.	blue sky.
H. M. S. Flying Fish, N. 34° 41′, E. 135° 12′	30.03	762.7	52	11.1	76	nw.			1		8	nw.				1	nw.	misty.
H. M. S. Gannet, S. 36° 10′, W. 82° 45′	30.17	766.3	61	16.1	70	sw.			1–2		9					1	ese.	d. clouds.
H. M. S. Garnet, Port Egmont, Faulkland Isld	29.50	749.3	52	11.1	79	wsw.			4		2							blue sky.
H. M. S. Inconstant, S. 18° 00′ E. 92° 00′	30.02	762.5	77	25.0	82	ese.			3–4		3	se.				3	se.	d. clouds.
H. M. S. Iron Duke, N. 22° 16′, E. 114° 10′	30.18	766.6	65	18.3	83	calm			0		4							d. clouds.
H. M. S. Lark, S. 36° 48′, E. 174° 50′	30.08	764.0	68.3	20.2		ne.			6		10					4	ne.	showery.
H. M. S. Liffey, Coquimbo, Chili	30.01	762.2	61	16.1		nne.			1		8							overcast.
H. M. S. Magpie, N. 25° 59′, E. 119° 27′	30.22	767.6	58.7	14.8	70	e.			1–2		0							misty.
H. M. S. Malabar, Suez Canal, Egypt	29.75	755.6	62	16.7	88	nne.			1		6	nw.						d. clouds.
H. M. S. Oronte-, N. 5° 17′, E. 50° 08′	29.90	759.4	81.5	27.5	88	ne.			3		5	ne.				3	ne.	d. clouds.
H. M. S. Rambler, Loango Bay, Lower Guinea	29.88	758.9	82	27.8		calm			0		10							d. clouds.
H. M. S. Ready, Muscat, Arabia	30.00	762.0	77.1	25.1		se.			1		10							overcast.
H. M. S. Rocket, Vancouver Island, British Columbia	29.76	755.9	39	3.9	91	calm			0		10							overcast.
H. M. S. Thalia, S. 8° 59′, W. 29° 21′	30.00	762.0	81	27.2		ese.			3		2					2	ese.	raining.
H. M. S. Triumph, S. 36° 13′, W. 82° 40′	30.21	767.3	61	16.1	70	sse.			2		8	sse.				1	ssw.	d. clouds.
H. M. S. Woodlark, Bombay, India	29.87	758.7	84.5	29.2	61	nw.			4–5		0							d. clouds.
PORTUGUESE NAVAL.																		misty.
Quanza, Santiago, Cape Verd Islands	29.95	760.7	78.8	26.0	62	ne.			2		0					2	ne.	blue sky.
SWEDISH NAVAL.																		
Balder, N. 28° 00′ W. 79° 56′	30.21	767.2	66.9	19.4	68	sse.			2		4							d. clouds.
UNITED STATES NAVAL.																		
Navy Yard, Pensacola, Fla	30.23	767.8	62	16.7	88	calm	0	0			2			0	0			fair.
Naval Hospital, Portsmouth, N. H.	30.35	770.9	20	— 6.7	?	nw.	10	4.5			0			0	0			clear.
Naval Hospital, Yokohama, Japan	29.91	759.7	48	8.9	74	calm			0		10		w.	0	0			overcast.
Adams, Callao, Peru	29.68	753.9	69	20.6	100	sse.			1		5					gr'd		fair.
Alaska, Valparaiso, Chili	29.96	761.0	60	15.6	88	calm			0		10					sm'h		cloudy.
Alert, Manila, Phillippine Islands	29.87	758.7	81	27.2	78	ene.			2		8		ene.	0	0	sm'h		cloudy.
Alliance, San Domingo, W. I.	30.10	764.5	77	25.0	91	n.			1		5			light	light			cloudy.
Ashuelot, Peiho River, China	29.95	760.7	54	12.2	67	ese.			2		2		calm					fair.
Brooklyn, S. 49° 21′ W. 57° 11′	29.51	749.5	52	11.1	86	sw.	12	5.4			8		sw.	0	0	br'kn	w.	fair.
Colorado, New York, N. Y.	30.39	771.9	21	— 6.1	84	n.	4	1.8			2		nw.	0	0			clear.
Enterprise, N. 14° 34′, W. 61° 17′*	30.09	764.3	77	25.0	82	ene.			3		2		calm			sm'h	e.	clear.
Essex, N. 13° 39′, W. 22° 09′	30.04	763.0	74	23.3	68	ene.			4		2		ne.			long	ne.	clear.
Franklin, Norfolk, Va.	30.41	772.4	38	3.3	72	ene.	6	2.7			10		ne.	0	0			cloudy.
Galena, N. 39° 20′, E. 120° 06′	30.30	769.6	63	17.2	89	nnw.			2		2					sm'h		fair.
Independence, Mare Island, Cal.	29.59	751.6	46	7.8	84	sse.			3		10			0.44	11.2			cloudy.
Kearsage, New Orleans, La	30.15	765.8	63	17.2	89	se.			1		5		calm					fair.
Lackawanna, Valparaiso, Chili†	30.07	763.8	61	16.1	94	calm			0		10							misty.
Lancaster, Charrak Turkey, Asia*	30.09	764.3	47	8.3	85	ne.			3–6		10		ne.	0.01	0.3			cloudy.
Marion, S. 33° 54′, E. 18° 24′*	29.77	756.1	69	20.6	85	w.			1		0					sm'h		clear.
Michigan, Erie, Pa	30.07	763.8	30	— 1.1	89	se.			2		0							clear.
Minnesota, Newport, R. I.	30.39	771.9	29	— 1.7		nne.	12	5.4			0							clear.
Monocacy, Yokohama, Japan	30.08	764.0	49	9.4	78	calm			0		10		calm					cloudy.
New Hampshire, Newport, R. I.	30.34	770.6	24	— 4.4	75	nne.			3		0					sm'h		clear.
Nipsic, Lisbon, Portugal	30.41	772.4	57	13.9	87	ne.			1		10					sm'h		cloudy.
Onward. Callao, Peru†	30.04	763.0	66	18.9	100	sse.			2		10		n.			long	w.	foggy.
Palos, N. 32° 06′, E. 127° 14′	30.20	767.1	55	12.8	80	nw.			4		0					sm'h		clear.
Passaic, Washington, D. C.	30.44	773.2	31	— 0.6	?	e.			1		10							cloudy.
Pensacola, S. 17° 40′ W. 71° 45′	29.95	760.7	73	22.8	76	ese.			1–2		5					sm'h		fair.
Powhatan, N. 14° 06′, W. 61° 01′	30.09	764.3	78	25.6	78	ese.			3		5		se.	0	0			fair.
Quinnebaug, Constantinople, Turkey	30.14	765.5	47	8.3	70	nne.			5		5		calm					fair.
Ranger, N. 17° 58′, W. 102° 25*′	29.97	761 2	68	20.0	70	ne.			2		2		calm			sm'h		clear.
Richmond, Yokohama, Japan *	29.95	760.7	50	10.0	79	nnw.			2		10					sm'h		clear.
Shenandoah, N. 10° 06′, W. 45° 44′ *	30.10	764.5	78	25.6	73	ne.			4		2		ne.	0	0			cloudy.
St. Louis, League Island, Pa	30.62	777.7	24	— 4.4	100	ne.	8	3.6			2		nw.			long	ne.	clear.
Swatara, N. 34° 44′ E. 139° 13′*	29.82	757.4	59	15.0	70	w.			3		10			0	0			fair.
Tennessee, New Orleans, La	30.20	767.1	63	17.2	89	se.	2.5	1.1			5					mod.	sw.	light rain.
Vandalia, Key West, Florida†*	30.36	771.1	70	21.1	85	ese.			2		2		calm	0	0			fair.
Wabash, Boston, Mass.	30.36	771.1	17	— 8.3		nw.	5	2.2			2		nw.					fair.
Wachusetts, Sitka, Alaska	29.99	761.7	25	— 3.9		calm			0		0			0	0	sm'h		clear.
Wyoming, Port Royal, S. C.	30.28	769.1	55	12.8	80	ssw.	2	0.9			10		nw.	0	0			overcast.
Yantic, N 28° 53′ W. 88° 13′*	30.19	766.8	70	21.1	80	s.			3		2					sm'h	s	clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.			Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.	Force.	Amount and kind.		Direction.						
									Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mt's. p. sec	0–10	0–10	From.	From.	Inch.	Mill.			
ALLEN LINE.																	
S. S. Peruvian, Liverpool, England*	30.41	772 4	46	7.8		nw.			4			6? nw.	0	0			clear.?
S. S. Polynesian, 46° 33′, W. 39° 56′*	29.63	752.6	52	11.1		sse.			8			10 s.	2 h'r	2 h'r	h'vy		overcast.
S. S. Prussian, N. 44° 16′, W. 42° 47′*	29.99	761.7	59	15.0		w.			7			10 sw.			h'v'y	sw.	hazy
S. S. Scandinavian, N. 46° 13′, W. 41° 14′*	29.71	754.6	50	10.0		s.			8			10 w.	2 h'r	2 h'r	high	s.	drizzling
S. S. Waldensian, Glasgow, Scotland*	30.46	773.7	51	10.6		w.			4			8 wnw.	0	0			cloudy.
AMERICAN STEAMSHIP COMPANY.																	
S. S. British Crown, N. 44° 57′, W. 43° 48′†	29.93	760.2	46	7.8		n.			4			10					
S. S. Illinois, St George's Channel	30.57	776.5	58	14.4	94	wnw.			3			2 w.	11 h'r	11h'r	h'vy	ssw.	heavy rain.
S. S. Indiana, Philadelphia, Pa†	30.17	766.3	28	—2.2	77	ne.			6			5? ene.			mod.	w.	fine.
S. S. Ohio, Philadelphia, Pa*†	30.20	767.1	25	—3.9	88	ne.			2			3	0	0			clear.
ANCHOR LINE.																	clear.
S. S. Devonia, N. 42° 38′ W. 56° 20′*†	29.90	759.4	34	1.1		nw.			3			8 nw.			mod.	wnw.	fair.
S. S. Galatia, North River, N. Y.						nw.			7			4 nw.	0	0			
ATLAS LINE.																	
S. S. Alsa, Savanilla, U. S. C.†	30.00	762.0	77	25.0	82	ne.			3–4			0	0	0			fine.
S. S. Alvo, N. 18° 53, W. 74° 26′	30.17	766.3	77	25.0		nne.			5			7 ne.	0	0	mod.	nne.	squally.
S. S. Arden, N. 38° 26′, W. 74° —′						nnw.			2						sm'h	sse	fine.
S. S. Athos, N. 37° 04′, W. 74° 30′	30.05	763.3				sw.			3			10	5 h'r	5 h'r	r'gh	wsw.	cloudy.
BRITISH METEOROLOGICAL OFFICE.																	
S. Auckland, N. 5° 45′, W. 35° 10′	29.98	761.5	78	25.6		nne.			4			4					blue sky.
S. Baroda, S. 48° 53′, E. 58° 54′	29.68	753.9	48.7	9.3	96	wnw.			6			9					overcast.
Caldew, N. 4° 30′, W. 30° 46′	30.01	762.2	79.8	26.6		nne.			6			4					d. clouds.
Bk. Commewyne, N. 22° 51′, W. 63° 03′	30.14	765.5	72.7	22.6	83	nnw.			4			10					showery.
Bk. Coppename, N. 41° 28′, W. 31° 56′	30.45	773.4	57.5	14.2	66	se.			4			3					blue sky.
S. S. Gordon Castle, N. 60° 01′, E. 86° 43′	29.93	760.2	85.5	29.7	78	ene.			1–2			0					blue sky.
S. S. Humboldt, N. 46° 22′, W. 35° 34′	30.19	766.8	53.5	11.9	77	sw.			8			9					overcast.
S. Lochee, N. 27° 04′, W. 41° 50′	30.25	768.3	68.2	20.1	67	var.			3			7					d clouds.
S. S. Minho, N 20° 15′, W. 22° 25′	30.16	766.1	70.2	21.2	80	ne.			5			1					blue sky.
S. S. Queen of Cambria, N. 18° 12′, E. 85° 39′	29.94	760.5	82.8	28.2	73	se.			3			3					misty.
CROMWELL LINE.																	
S. S. Hudson, N. 26° 40′, W. 80° 00′*†	30.28	769.1	69	20.6		s.			3			1 ese.	0	0	mod.	s.	fair.
CUNARD LINE.																	
S. S. Gallia, N. 48° 52′ W. 31° 24′	30.22	767.6	52	11.1	100	ssw.			7			5 sw.	0	0	high	wsw.	hazy.
GENERAL TRANS-ATLANTIC COMPANY.																	
S. S. Canada, Havre, France	30.65	778 4	48.2	9.0		nw.			1			0	0	0			clear.
HAMBURG AMERICAN PACKET COMPANY.																	
S. S. Bohemia, N. 44° 39′. W. 42° 24′*†	29.85	758.2				ssw.			8			8 ssw.	2 h'r	2 h'r	h'vy	sw.	hazy.
S. S. Lessing, Hamburg, Germany			55	12.8		w.			3			0	0	0			fair.
S. S. Silesia, N. 45° 49′, W. 38° 05′*†	30.06	763.5	54.5	12.5		s.			7			5 s.	0	0	7	s.	fair.
S. S. Wieland, N. 47° 19′, W. 29° 20′	30.46	773.7	53	11.7		s.			5			3 ssw.	0	0	4–5	ssw.	clear.
S. S. Thanemore, N. 55° 24′, W. 7° 34′	30.44	773.2				wnw.			7			5 nw.	0	0		nw.	fine.
LEYLAND LINE.																	
S. S. Iberian, N. 42° 29′, W. 69° 07′						n.			1			1 nw.	0	0			
MALLORY LINE.																	
S. S. Colorado, N. 27° 03′, W. 80° 02′†	30.26	768.6	66	18.9		se.			2			1 se.	0	0	mod.	ne.	clear.
MERCHANTS' EXPRESS LINE.																	
S. S. Freja, N. 40° 33′, W. 61° 34′†	30.06	763.5	40	4.4	91	n.			7			8 n.	0	0	cross	n.	squally.
S. S. Hermod, N. 47° 17′, W. 26° 00′*†	30.24	768.1				se.			3			1 s.	0	0	mod.	se.	fair.
NATIONAL LINE.																	
S. S. Erin, N. 42° 06′ W. 55° 59′	29.93	760.2	39	3.9		wnw.			4			10 w.	sleet	sleet	mod.	w.	sleeting.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																	
S. S. Niagara, N. 26° 55′, W. 80° 03′*†	30.40	772 1	68	20.0		se.			3			0	0	0	sm'h		clear.
NEW YORK HERALD WEATHER SERVICE.																	
S. S. City of Amsterdam, N. 46° 15′ W. 40° 39′*†	29.94	760.5	56	13.3		ssw.			6							sw.	stormy.
S. S. Alvena, N. 18° 34′, W. 67° 01′*†	30.00	762.0	75	23.9		calm			0							e.	cloudy.
S. S. Maas, N. 49° 14′, W. 18° 53′	30.56	776.2	56	13.3		sse.			1							nnw.	
S. S. Olbers, N. 23° 17′, W. 22° 00′†*	30.20	767.1	68	20.0		e.			4–5						sm'h		fine.
NORTH GERMAN LLOYD.																	
S. S. Kronprinz F. Wilhelm, N. 43° 25′ W 50° 20′	29.69	754.1	39.2	4.0		sw.			2–3			10	8 h'r	8 h'r	6–7	sw.	cloudy.
S. S. Main, N. 42° 12′, W. 48° 50′*	29.92	760.0	42.5	6.0		nw.			3–4			8 w.	0	0	mod.	var.	cloudy.
S. S. Mosel, N. 44° 51′ W. 43° 31′	29.84	757.9	46.6	8.1		nnw.			4			10 n.	3 h'r	3 h'r	high	sw.	cloudy.
S. S. Nurnburg, S. 14° 38′ W. 29° 02′*	30.04	763.0	80.6	27.0	93	ese.			5			9 e.	2 h'r	2 h'r	3	e.	cloudy.
S. S. Oder, New York, N. Y.	30.46	773.7	30.9	—0.6		n.			3			2 n.	0	0			fair.
S. S. Ohlo, Bremerhaven, Germany	30.45	773.4				nw.			4			2 nnw.	0	0			clear.
S. S. Saller, N. 48° 11′, W. 34° 36′	30.03	762 7	47.3	8.5		ssw			9			10 ssw.	0	0	h'vy	sw.	cloudy.
S. S. Strassburg, N. 43° 02′, W. 50° 10′	29.92	760.0	30.0	2.2	90	ene.			2–3			4 ene.	2 h'r	2 h'r	r'gh	wsw.	clear.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																	
S. S. Belgic, N. 28° 23′, E. 128° 12′†	30.20	767.1	56	13 3	83	n.			6			10? n.	0	0	mod.	n.	clear ?
S. S. Gaelic, N. 32° 35′, E. 134° 15′†	30.04	763.0	65	18.3	63	wnw.			4			10 wnw.			sm'h	s.	overcast.
OCEAN STEAMSHIP COMPANY.																	
S. S. City of Augusta, Savannah, Ga.†	30.39	771.9				calm			0			2 w.	0	0			smoky.
S. S. Seminole, Savannah, Ga†	30.37	771.4	64	17.8	68	sw.			1			2 nw.	0	0			clear.
OREGON IMPROVEMENT COMPANY.																	
S. S. Mississippi, Seattle, Wash. Ter†	29.79	756.7	42	5.6	83	calm			0			10					cloudy.
S. S. Willamette, Seattle, Wash. Ter*†	29.78	756.4	41	5.0	82	calm			0			6 e.	0.5	13.			drizzling.
OREGON RAILWAY AND NAVIGATION COMPANY.																	
S. S. Oregon, San Francisco, Cal†	29.71	754.6	42	5.6	91	s.			1			5 s.					hazy.
PACIFIC COAST STEAMSHIP COMPANY.																	
S. S. Ancon, San Francisco, Cal†	29.68	753.9	47	8.3	85	s.			4			10 s.					cloudy.
S. S. Idaho, Seattle, Wash. Ter†	29.74	755.4	46	7.8	62	s.			2			10 se.					stormy.
S. S. Orizaba, N. 33° 24′, W. 118° 14′†	30.02	762.5	59	15.0	88	se.			3			se.	0	0	light	se.	clear.
S. S. State of California, Portland, Oregon†	29.69	754.1	39	3.9	82	nnw.			3			10 se.	0	0			cloudy.
S. S. Victoria, N. 48° 12′, W. 124° 43′			43	6.1	100	e.			2			8			long	w.	misty.
PACIFIC MAIL STEAMSHIP COMPANY.																	
S. S. Australia, Sydney, N. S. W.	29.66	761.0	60	15.6	82	sse.			1			1 nne.	0	0			clear.
S. S. City of New York N. 31° —′ W. 133° 15′†	29.62	752.3	59	15.0	88	w.			6			5	0	0	hv'y	wnw.	fair.
S. S. City of Pekin, N. 25° 47′, W. 113° 31′†	30.06	763.5	59	15.0	88	n.			2				h'vy	h'vy	light	w.	hazy.
S. S. City of Rio de Janeiro, N. 8° 36′, W. 84° 10′†	30.12	765.0	83	28.3	71	nw.			2			2 n.	0	0	sm'h		fine.
S. S. City of Sydney, Sydney, N. S. W.†	29.89	759.2	68	20.0	65	s.			5			2 s.	0	0	sm'h		clear.
S. S. City of Tokio, N. 34° 44′ E. 172° 32′†	30.14	765.5	55	12.8	62	nnw.			3			2 nnw.	2 h'r	2 h'r	mod.	nnw.	clear.
S. S. Colima, N. 22° 56′, W. 108° 27′†	29.97	761.2	80	18.9	84	wnw.			4			7 nw.	0	0	mod.	nw.	cloudy.
S. S. Colon, Aspinwall, Panama†	30.05	763.3	81	27.2		nne.			4			2 ne.					clear.
S. S. South Carolina, Panama, Panama†	30.09	764.3	80	26.7	70	nne.			4			0	0	0	light	ne.	fine.
S. S. Zelandia, N. 24° 29′. W. 152° 10′	29.94	760.5	69	20.6	85	e.			4			8 ne.			mod.	ne.	fine.
QUEBEC STEAMSHIP COMPANY.																	
S. S. Muriel, N. 31° 44′, W. 69° 01′						nnw.			5			8	0	0	mod.	ne.	threatening.
S. S. Bermuda, N. 23° 40′, W. 69° 05′†	30.22	767.6	71	21.7		nne.			4			2 ne.	1 h'r	1 h'r	sm'h	ne.	fine.
RED STAR LINE.																	
S. S. Nederland, N. 42° 01′, W. 51° 56′*†	30.53	775.4	43	6.1		wnw.			2			8 w.	0	0	long	s.	cloudy.
S. S. Rhyuland, N. 40° 47′, W. 51° 26′	29.88	758.9	49	9.4	85	nw.			3			10 nw.	0.5	13.	high	wsw.	cloudy.
S. S. Vaderland, N. 48° 35′, W. 19° 06′	30.44	773.2	52	11.1		ese.			2			2	0	0	long	w.	clear.
S. S. Waesland, N. 49° 44′, W. 8° 48′	30.62	777.7	53	11.7		calm			0			0	0	0	sm'h	nw.	clear.
ROTTERDAM LINE.																	
S. S. Schiedam, Rotterdam, Netherlands*	30.53	775.4	54.3	12.4	88	ese.			4			0					
S. S. W A Scholten, Rotterdam, Netherlands*	30.22	767.6	64.4	18.0	84	s.			2			2 sw.	0	0			

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch	Mill.			
THINGVALLA LINE.																		
S. S. Thingvalla, N. 57° 18′, W. 15° 57′†	30.13	765.3	43.2	6.2		sw.			9		10		sw.	0	0	hv'y	sw.	covered
WHITE STAR LINE.																		
S. S. Celtic, N. 45° 46′, W. 40° 32′*†	29.72	754.9	53	11.7	100	s.			8		10		s.	5 h'r	5 h'r	hv'y	sw.	misty.
S. S. Germanic, N. 41° 26′, W. 44° 50′*†	30.00	762.0	57	13.9		nw.			3		10		sw.	shr's	shr's	short	sw.	raining.
WILSON LINE.																		
S. S. Romano, N. 44° 47′, W. 36° 58′*†	30.22	767.6	56	13.3		ssw.			4		6		ssw	0	0	rg'h	sw.	cloudy.
S. S. Salerno, New York, N. Y.†	30.40	772.1				n.			2		2?		n.					snowing?
WINSOR LINE.																		
S. S. Catherine Whiting, Philadelphia, Pa.†	30.39	771.9				nne.			1				wnw.					
MISCELLANEOUS.																		
Sch. Addie Fuller, Cedar Keys, Florida†	30.34	770.6	63	17.2	72	s.			3	2 ck	0			0	0			clear.
Bk. Adelaide, S. 14° 14′, W. 36° 49′*†	30.09	764.3	80	26.7		ese.			4		2		e.	0	0	mod.	ese.	fair.
Bk. Alpha, Del. Breakwater*†	30.38	771.6	28	—2.2		ne.			4		6			0	0			cloudy.
Sch. Annie M. Law, N. 40° 10′, W. 66° 31′*†	30.20	767.1	38	3.3	63	nnw.			3		0			12 h'r	12 h'r	mod.	w.	clear.
Schr. Annie M. Smull, S. 8° 57′, W. 33° 31′*†	30.10	764.5	84	28.9		se.							se.	0	0		se.	clear.
Bk. Bergenseren, N. 33° 52′, W. 36° 15′†	30.29	769.4				se.			3				ene.	0	0	3	nne.	clear.
Bk. Celestina, N. 24° 20′. W. 36° 32′*†	30.12	765.0				n.			2		3		ne.	0	0		n.	fair.
Bk. E. L. Pettengill, S. 29° 41′ W 88° 53′†	30.30	769.6				se.			3		8		se.	0	0	sm'h	s.	overcast.
S. Enoch Train, Bremerhaven, Germany*	30.34	770.6				nw.			3		1		nw.	0	0			clear.
U. S. F. C. S. FishHawk, Annapolis, Md †	30.42	772.7	32	0.0		se.			3		10		calm	0	0			cloudy.
Bk. Freya, Baltimore, Md.			31	—0.6		ene.			2		10		n.	0	0			hazy.
S. Grecian, N. 5° 28′, W. 26° 40′*†	30.00	762.0	80	26.7		ene.			3		9		e.	0	0	sm'h	n.	hazy.
Bk. Geo. Booth, S. 34° 55′, W. 6° 09′*†	29.90	759.4				nw; s.			4		10			10h'r	10h'r	long	sw.	
Bk. Granville, S. 9° 56′, W. 32° 56′*†	30.18	766.6				ese.			1				se.	0	0	sm'h		clear.
S. Hedwig, N. 53° 43′, E. 8° 15′	30.43	773.0	52.3	11.3	?	w.			4		7		w.	0	0			fine.
Schr. Henry Denison, Georgetown, Brit. Guiana S.A†	29.94	760.5				ene.			6		7		ne.	driz.	driz.			cloudy.
Bk. Johanne Auguste, S 11° 26′, E. 87° 27′*†	29.79	756.7				se.			2		5		n.	3 h'r	3 h'r	hv'y	sm'h	squally.
Bk. Josephine, N. 36° 53′, W. 69° 13′*†	30.34	770.6	.49	9.4	61	nw.			6		10			6 h'r	6 h'r	rg'h	wnw.	cloudy.
Bk. Kate Cann, N. 48° 35′, W. 19° 22′						se.			4		2		se.	0	0	long	wnw.	fine.
Bkt. Kryolith, N. 41° 24′, W. 25° 45′*†	30.40	772.1				ese.			4		5		s.	0	0	mod.	ne.	clearing.
S. S. Lamperts, N. 49° 26′, W. 15° 42′*	30.57	776.5	53.8	12.1	84	ene.			2		2					sm'h	w.	d. clouds.
Schr. Maggie Abbot, Baracoa, Cuba, W. I*†	30.15	765.8				nne.			4				n.	0	0			cloudy.
S. S. Malabar, N. 43° 34′ W. 27° 28′*†	30.42	772.7				se.			2				s.	0	0	long	nw.	cloudy.
Bk. Peppina, N. 38° 52′, E. 8° 54′†	30.26	768.6	64	17.8	78	w.			3		0					sm'h		clear.
Bk. Pilgrim, S. 46° 47′. E. 64° 34′*†	30.10	764.5				wnw.			1		0			0	0	long	w.	clear.
Schr. S. B. Hubbard, Jacksonville, Florida*†	30.24	768.1	74	23.3		calm			0		0			0	0			clear.
Bkt. Spotless, N. 35° 20′ W. 53° 07′*†	29.80	756.9				nw to n.							nw.			hv'y	nw.	
Bk. Stella, S. 49° 49′, W. 60° 24′*	29.52	749.8	53.2	11.8	90	sw.			3		0			0	0	mod.	sw.	clear.
Bk. Sunbeam, N. 31° 09′, W. 72° 13′*†	30.26	768.6	58	14.4	70	n.			5		10		n.	0	0	hv'y	n.	cloudy.
S. S. Victoria J. Peed, Georgetown, S. C.*†	30.31	769.9				n.			1		8		nne.					rainy.
Bg. Wauburn, S. 16° 20′, W. 3° 26′*†	30.10	764.5				se.			5		4		se.			sm'h		
S. Wm. Woodbury, Bremerhaven, Germany*†	30.20	767.1	55	12.8	34	w.			2		1		w.					

Data, as appearing in the International Bulletin of similar date.

Isobars in *black* exhibit atmospheric pressure at sea-level, and are charted from data as reported by the several observers.

Isotherms in *red* exhibit temperature of air, similarly charted.

Broken or dotted lines indicate that the lines so broken are doubtful.

Arrows, when charted, fly with the wind and exhibit wind-direction and force.

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W. B. Hazen

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

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INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON MARCH 16, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours	.....	.....	30.26	768.5	65.1	18.4	82	w.	.....	.....	3	.....	0	.....	.....	0	0	clear	Moiroud.
Algiers	.....	.....	30.26	768.6	59.4	15.2	76	ne.	.....	.....	1	.....	0	.....	.....	0	0	clear	Nicolas.
La Calle	.....	.....	30.28	769.1	63.7	17.6	74	wnw.	.....	.....	3	.....	3	.....	.....	0	0	pretty fair	Fonfrède.
Tunis	.....	.....	30.30	769.5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.30	769.7	66.2	19.0	51	nne.	.....	.....	1	.....	1	.....	.....	0	0	very fair	Dumas.
Tebessa	.....	.....	30.36	771.2	59.0	15.0	51	sw.	.....	.....	3	.....	0	.....	.....	0	0	clear	Derché.
Geriville	.....	.....	.....	.....	56.1	13.4	11	sw.	.....	.....	4	.....	8	.....	.....	0	0	very cloudy	Lonchamp.
Laghouat	.....	.....	30.41	772.3	63.3	17.4	24	se.	.....	.....	1	.....	0	.....	.....	0	0	clear	Herbin.
Biskra	.....	.....	30.37	771.4	76.6	24.8	24	sw.	.....	.....	1	.....	0	.....	.....	0	0	clear	Malau.
Australian.																			
Melbourne, Victoria	29.84	757.9	29.93	760.2	55.6	13.1	73	se.	7	3.1	.....	.....	1	.....	.....	0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.85	758.3	30.40	772.2	66.0	18.9	44	e.	.....	.....	2	.....	2	.....	.....	0	0	.....	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.57	751.1	30.35	770.9	51.4	10.8	47	w.	12.5	5.6	.....	.....	3	.....	.....	0	0	.....	Dr. Wierzbiski.
Eperies	29.39	746.6	30.28	769.0	54.7	12.6	41	nw.	.....	.....	2	7 cs	0	.....	.....	0	0	.....	Julius Mikolik.
Gratz	29.15	740.3	30.39	771.9	60.4	15.8	53	s.	.....	.....	2	.....	0	.....	.....	0	0	.....	Andreas Rospini.
Hermannstadt	28.79	731.2	30.22	767.7	57.6	14.2	42	nw.	.....	.....	3	.....	1	.....	.....	0	0	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	29.13	739.8	30.48	774.1	56.8	13.8	57	nnw.	.....	.....	3	.....	0	.....	.....	0	0	clear	The Staff.
Lemberg	29.19	741.5	30.08	764.0	49 3	9.6	54	nw.	.....	.....	3	.....	2	.....	.....	0	0	.....	Dr. T. Stanecki.
Pola	30.29	769.4	30.40	772.2	65.5	18.6	78	ese.	.....	.....	1	.....	1	.....	.....	0	0	.....	I. R. Hydrographic Office.
Szathmar	29.79	756.6	30.26	768.5	54.9	12.7	45	nw.	.....	.....	2	.....	2	.....	.....	0	0	.....	Joseph Midlinszky, S. J.
Szegedin	30.04	763.0	30.32	770.1	60.1	15.6	40	nw.	.....	.....	1	.....	3	.....	.....	0	0	.....	Karl Stancel.
Trieste	30.33	770.3	30.43	772.9	64.4	18.0	46	e.	.....	.....	1	.....	0	.....	.....	0	0	.....	Rieder.
Vienna	29.73	755.1	30.45	773.4	58.6	14.8	45	nw.	.....	.....	3	.....	1	.....	.....	0	0	.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	30.10	764.5	30.20	767.1	61.0	16.1	34	wsw.	30	13.4	.....	.....	3	.....	.....	0	0	blue sky	W. Boswell.
Armagh, Observatory	30.31	769.9	30.55	776.0	54.3	12.4	58	ssw.	19	8.5	.....	.....	2	.....	.....	.....	.....	d. clouds	S. Call.
Bidston, Liverpool Obs'y	.....	.....	30.58	776.7	55.6	13.1	77	w.	9	4.0	.....	.....	1	.....	.....	.....	.....	blue sky	John Hartnup.
Bolton, Sharples	30.02	762.5	30.57	776.5	53.7	12.1	66	wsw.	18	8.0	.....	.....	3	.....	.....	.....	.....	d. clouds	Thomas Mackereth. [A.S.
Bradford, Yorkshire	30.10	764.5	30.50	774.7	52.7	11.5	63	w.	.....	.....	1	.....	2	.....	.....	0	0	blue sky	J. McLandsborough, F. R
Bridgetown, Barbadoes	29.96	761.0	29.99	761.7	81.0	27.2	70	ne.	.....	.....	2	.....	6	.....	.....	.....	.....	gloomy	Pvt. J. Surgenor, A. H.C.
Cardington	.....	.....	30.58	776.7	58.0	14.4	57	w.	.....	.....	0.6	.....	0	.....	.....	.....	.....	blue sky	John McLaren.
Chatham, School M. E	30.50	774.7	30.63	778.0	60.4	15.8	59	sw.	.....	.....	1	.....	0	.....	.....	.....	.....	misty	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	30.43	772.9	30.67	779.0	52.7	11.5	76	e.	.....	.....	1	.....	1	.....	.....	.....	.....	foggy	The Staff.
Fort Napier, Natal	27.75	704.8	29.97	761.2	73.0	22.8	81	e.	.....	.....	1	.....	3	.....	.....	.....	.....	blue sky	Pvt. E. K. Annis, [A. H.C.
Free Town, Sierra Leone	29.63	752.6	29.86	758.4	89.0	31.7	66	nw.	.....	.....	1	.....	3	.....	.....	.....	.....	d. clouds	Sergt. John Robinson.
Galway, Queen's College	.....	.....	30.54	775.7	.....	.....	.....	sw.	.....	.....	2	.....	7	.....	.....	.....	.....	d. clouds	J. O'Donaghue.
Gibraltar, Mediterranean	30.35	770.9	30.40	772.1	62.0	16.7	71	e.	.....	.....	4	.....	8	.....	.....	.....	.....	gloomy	Opl. O. Baldwin.
Glasgow, Observatory	30.21	767.3	30.42	772.7	53.5	11.9	48	wsw.	.....	.....	5	3 c	0	.....	.....	.....	.....	d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	30.46	773.7	30.63	778.0	59.2	15.1	61	sw.	.....	.....	1	.....	0	.....	.....	.....	.....	blue sky	The Staff.
Guernsey	30.38	771 6	30.68	779.3	56.0	13.3	68	ne.	.....	.....	1	.....	0	.....	.....	.....	.....	blue sky	A. Collenette, F. M. S.
Kew, Observatory	30.60	777.2	30.64	778.2	56.6	13.7	60	w.	10	4.5	.....	.....	0	.....	.....	.....	.....	blue sky	The Staff.
Leicester, Museum	30.32	770.1	30.58	776.7	56.3	13.4	62	sw.	.....	.....	1	.....	0	.....	.....	.....	.....	blue sky	J. C. Smith.
Malta, Mediterranean	30.19	766.8	30.26	768.6	64.8	18.2	74	nw.	.....	.....	2	.....	1	.....	.....	.....	.....	blue sky	I. H. Whysall.
Nassau, Bahamas	30.19	766.8	30.24	768.1	71.5	21.9	67	se.	.....	.....	1	.....	3	.....	.....	.....	.....	d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	30.07	763.8	30.60	777.2	57.2	14.0	53	w.	.....	.....	2	.....	3	.....	.....	.....	.....	misty	John Mac Email.
Oxford, Radcliffe Obs'y	30.40	772.1	30.63	778.0	53.9	12.2	69	sw.	.....	.....	2	.....	0	.....	.....	.....	.....	blue sky	The Staff.
Plymouth	30.58	776.7	30.66	778.7	52.2	11.2	66	sw.	.....	.....	1	.....	0	.....	.....	.....	.....	blue sky	John Merrifield.
Sandwick Manse, Orkneys	.....	.....	30.04	763.0	48.1	8.9	92	wsw.	50	22.4	.....	.....	10	.....	.....	.....	.....	misty	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	30.05	763.3	30.12	765.0	48.4	9.1	97	ne.	.....	.....	2	.....	9	.....	.....	.....	.....	d. clouds	W. H. Lyne.
Sheffield	30.26	768.6	30.54	775.7	61.4	16.3	52	sw.	.....	.....	1	.....	0	.....	.....	0	0	blue sky	W. F. Cooper.
Silloth Rectory	30.50	774.7	30.53	775.4	49.7	9.8	80	w.	.....	.....	4	.....	3	.....	.....	0	0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	30.60	777.2	49.0	9.4	77	w.	20	8.9	.....	.....	5	.....	.....	.....	.....	d. clouds	R. S. J. Perry.
Straifield Turgiss	30.42	772.7	30.64	778.2	59.7	15.4	58	w.	.....	.....	2	.....	0	.....	.....	.....	.....	blue sky	Rev. C. H. Griffiths, F.M.S.
Truro, Royal Institution	30.60	777.2	30.65	778.5	62.0	16.7	46	s.	.....	.....	1	.....	0	.....	.....	.....	.....	blue sky	W. Newcombe.
Valencia, Observatory	30.61	777.5	30.63	778.0	49.0	9.4	89	sw.	10	4.5	.....	.....	10	.....	.....	.....	.....	d. clouds	The Met'g'l Office.
Canadian.																			
Bathurst, N. B	.....	.....	.....	.....	5.0	—15.0	.....	calm	0	0	.....	3 cs	0	.....	.....	0	0	fair	Hon. J. Ferguson.
Chatham, N. B*	30.34	770.6	30.39	771.9	— 6	—21.1	100	calm	0	0	.....	0	0	.....	.....	0	0	clear	H. J. Cundall, C. E.
Cornwall, Ontario	30.34	770.6	30.41	772.4	— 5	—20.6	.....	calm	0	0	.....	5 c	hz	calm	.....	0	0	fair	G. A. Blair.
Dalhousie, N. B	30.02	762.5	30.24	768.1	1.8	—16.8	100	e.	.....	.....	2	0	0	.....	.....	.....	.....	.....	James Smith, M. A.
Father Point, Quebec*	30.14	765.5	30.33	770.4	3.0	—16.1	.....	calm	.....	.....	0	0	0	.....	.....	0	0	clear	H. A. Johnson.
Fort Garry, Manitoba*	30.24	768.1	30.26	768.6	13	—10.6	87	sw.	3	1.3	.....	5 c	5 s	nw.	calm	0	0	cloudy	J. McWilliams.
Fredericton, N. B	29.37	746.0	30.27	768.8	10	—12.2	96	e.	1	0.4	.....	0	0	.....	.....	0	0	clear	James Stewart.
Granton, Ontario	30.34	770.6	30.41	772.4	—0.9	—18.3	100	w.	1	0.4	.....	0	hz.	.....	.....	0	0	fair	Prof. Harrison.
Halifax, N. S*	30.07	763.8	30.24	768.1	25.2	— 3.8	97	calm	.....	.....	0	.....	10 n	.....	.....	inap.	inap.	cloudy	James Grant.
Hamilton, Ontario	30.29	769.4	30.43	772.9	12	—11.1	87	sw.	1	0.4	.....	0	0	.....	.....	0	0	clear	A. Allison.
Kingston, Ontario*	29.79	756.7	30.20	767.1	27.9	— 2.3	82	ne.	.....	.....	1	10 cs	0	ne.	.....	0	0	cloudy	Geo. Dickson, B. A.
Little Glace Bay, N. S	29.88	758.9	30.25	768.3	13	—10.6	80	ne.	8	3.6	.....	.....	10 k	.....	ne.	0	0	cloudy	A. P. Knight, M. A.
Montreal, Quebec*	30.39	771.9	30.43	772.9	9.0	—12.8	85	w.	.....	.....	2	5 c	0	w.	.....	0	0	fair	C. H. Rigby.
Parry Sound, Ontario*	30.05	763.3	30.28	769.1	6	—14.4	60	ne.	8	3.6	.....	2 c	0	.....	.....	0	0	clear	C. H. McLeod, C. E.
Peterboro, Ontario	29.54	750.3	30.33	770.4	2	—16.7	65	ne.	8	3.6	.....	0	0	.....	.....	0	0	clear	Rev. R. Mosley.
Port Dover, Ontario	29.46	748.3	30.26	768.6	22.4	— 5.3	80	calm	.....	.....	.....	10 k	0	.....	.....	0	0	cloudy	J. Dixon, B. A.
Port Stanley, Ontario	29.49	749.0	30.22	767.6	26	— 3.3	100	ne.	6	2.7	.....	.....	10 n	.....	.....	0.07	1.8	cloudy	H. Morgan.
Quebec, Quebec*	29.53	750.0	30.21	767.3	27	— 2.8	88	n.	5	2.2	.....	.....	10 n	.....	n.	0.07	1.8	cloudy	M. Payne.
Rockliffe, Ontario*	29.95	760.7	30.31	769 9	7	—13.9	80	w.	1	0.4	.....	0	2 k	.....	w.	0	0	clear	Capt. Ashe, R. N.
Saugeen, Ontario*	29.82	757.4	30.34	770.6	— 4	—20.0	83	calm	0	0	.....	0	0	.....	.....	0	0	clear	W. H. McIntyre.
St. Andrews, N .B	29.53	750.0	30.31	769.9	11	—11.7	90	calm	0	0	.....	.....	8 ks	.....	.....	0	0	cloudy	
St. John, N. B	30.31	769.9	30.36	771.1	17	— 8.3	95	calm	0	0	.....	0	0	.....	.....	0	0	clear	
St. Pierre, N. F	30.19	766.8	30.38	771.6	13.0	—10.6	100	nw.	2	0.9	.....	0	0	.....	.....	0	0	clear	G. Murdock, C. E.
Stratford, Ontario	.....	.....	30.24	768.1	15.8	— 9.0	.....	n.	.....	.....	1	.....	.....	.....	.....	0	0	.....	N. F. Land, Com't.
Sydney, C. B*	28 86	733.0	30.23	767.8	23.0	— 5.0	93	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	C. I. Macgregor, M. A.
Toronto, Ontario*	30.36	771.1	30.43	772.9	— 8	—22.2	82	calm	0	c	.....	0	0	.....	.....	0	0	clear	T. C. Hill, C. E.
Windsor, N. S	29.85	758.2	30.26	768.6	26	— 3.3	70	n.	12	5.4	.....	.....	10 ks	.....	w.	0	0	cloudy	Magnetic Observatory.
Woodstock, Ontario	30.30	769.6	30.40	772.1	9.5	—12.5	89	s.	1	0.4	.....	0	0	.....	.....	0	0	clear	Prof. W. R. Butler.
Yarmouth, N. S*	29.10	739.1	30.23	767.8	25.5	— 3.6	80	nw.	8	3.6	.....	2 c	8 ks	.....	.....	0.01	0.3	cloudy	Prof. Wolverton
Sub-series.	30.31	769.9	30.38	771.6	24	— 4.4	70	e.	1	0.4	.....	0	0	.....	.....	0	0	clear	Lt. F. E. Wilmot, R. N.
St. Johns, Newfoundland	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cape Colony.																			
Cape St. Francis Lt. House	30.10	764.5	30.38	771.6	15	— 9.4	.....	w.	2	0.9	.....	5 k	10 s	.....	.....	0.30	7.6	.....	John Delany.
Cape Town, C. G. H. Obs'y	29.96	761.0	29.99	761.7	69.0	20.6	88	e.	11.8	5.3	.....	2 cs	0	.....	.....	0	0	hazy	John Duthie.
	29.94	760.5	29.98	761.5	77.8	25.4	56	nw.	8	3.6	.....	6	4	.....	.....	0	0	.....	The Staff, for D. Gill.

STATIONS.	BAROMETER. Corrected for instrumental error and for temperature.		BAROMETER. Reduced to sea-level.		Temperature of the air.		Relative humidity.	WIND. Direction.	WIND. Velocity.		WIND. Force.	CLOUDS. Amount and kind. Upper.	CLOUDS. Amount and kind. Lower.	CLOUDS. Direction. Upper.	CLOUDS. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
CHINESE (*Sub-series*).																			
Hankow	29.95	760.7	30.23	767.8	64.1	17.8	65	s.			2		0			0	0		N. Titoushkin.
Zi-Ka-Wei, near Shanghai	30.06	763.5	30.09	764.2	53.8	12.1	73	s.	4.3	1.9			0			0	0	clear	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	30.05	763.3	30.10	764.5	51.3	10.7	58	wnw.	31.3	14			3						Oversergent Fischer.
Fanöe	30.20	767.0	30.22	767.5	47.5	8.6	71	w.			6		1						Overloerer Lauridsen.
Godthaab, Greenland	29.91	759.6	29.95	760.7	4.6	—15.2	95	wnw.			3		1c						S. Kleinschmidt.
Stykkisholm, Iceland	29.87	758.6	29.91	759.7	10.4	—12.0	93	ne.			4		0						A. O. Thoriacius.
Thorshavn	29.67	753.7	29.71	754.6	46.4	8.0	73	w.	24.6	11			7					raining	Overloerer Bergh.
Vestervig	29.95	760.7	30.04	763.0	46.4	8.0	78	wsw.			6		1						Loearer Oesterbol.
FRENCH.																			
Agen, Normal School	29.91	759.7	30.57	776.4	65.5	18.6	75	calm			0		0			0	0	clear	M. Labroue, *Director*.
Alençon, Normal School	29.94	760.4	30.48	774.3	59.0	15	48	ne.			1					0	0		M. Nicot, Director.
Arras, Engineer School	30.34	770.7	30.60	777.3	58.1	14.5	76	ne.								0	0		M. Klein, Commandant.
Avignon, Normal School	30.39	772.0	30.47	774.0	73.4	23	37	n.			1		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	30.02	762.5	30.58	776.7	59.0	15.0	51	se.			1		0			0	0	clear	M. Saillard, Director.
Beauvais, Normal School	30.39	771.9	30.66	778.8	54.0	12.2	61	ne.			1		0			0	0	clear	M. Frère Eugène Mari.
Besançon, Normal School	29.56	750.8	30.46	773.7	60.8	16	69	ne.			1		0			0	0	clear	M. Gobin, Director.
Bordeaux, Observatory	30.27	768.9	30.54	775.6	63.7	17.6	39	ne.			1		0			0.012	0.3	clear	M. Rayet, Director.
Bourges, Normal School	30.03	762.8	30.60	777.2	65.3	18.5	42	nne.				c	0	nne.		0	0		M. Postel, Director.
Brest, *Naval Observatory*	30.37	771.5	30.62	777.7	67.3	19.6	67	calm			0		0			0	0		M. de Kermaree, Dir.
Caen, Normal School	30.55	776.0	30.63	777.9	58.6	14.8	53	sw.			1		0			0	0	clear	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	30.20	767.0	30.52	775.2	60.8	16.0	59	nw.			1		0			0	0	clear	M. Jadot, Director.
Charleville, Normal School	30.10	764.4	30.61	777.4	64.4	18	57	ne.			1		0			0	0	clear	M. Grimard, Director.
Clermont-Ferrand Obs'y	29.19	741.3	30.54	775.7	63.1	17.3	47	n.			1		0			0	0	clear	M. Alluard, Director.
Cluny, Normal School	29.70	754.3	30.56	776.1	63.3	17.4	40	ne.			2		0			0	0	clear	M. de Villemontée, Dir.
Commercy, Normal School	29.74	755.4	30.63	777.9	58.5	14.7	59	nne.			1		0			0	0	clear	Dr. Coulet, Director.
Gap, Normal School	27.90	708.6	30.39	771.9	68.0	20	32	s.			1					0	0		M. Jeangirard, Director.
Gréasque, du. Rhone	29.36	745.8	30.47	774.0	70.5	21.4	27	sw.			1		0			0	0	clear	M. Kina, Director.
Grenoble, Normal School	29.74	755.4	30.50	774.8	65.5	18.6	42	ene.			1		0			0	0	clear	M. Ablard, Director.
Guéret, Normal School	28.96	735.5	30.55	775.9	59.5	15.3	47	ne.			2		0			0	0	clear	M. Rivoire, Director.
Lamballe, Normal School	30.36	771.1	30.63	778.0	62.6	17	66	nnw.			1		0			0	0	light fog	M. Ollitrault, Director.
Lescar, Normal School	29.95	760.8	30.51	774.9	68.0	20	72	wnw.			1		0			0	0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	30.55	776.0	30.65	778.6	65.3	18.5	62	e.			1		0			0	0	clear	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.48	748.9	30.56	776.1	60.8	16.0	45	n.			1		0			0	0	clear	M. André, Director.
Mans, Normal School	30.34	770.5	30.65	778.5	55.2	12.9	60	ne.			1		0			0	0	clear	M. Piboen, Director.
Marseille, Observatory	30.17	766.4	30.44	773.2	70.2	21.2	40	wnw.			0.1		0			0	0		M. Stephan, Director.
Montlouis l'Instituteur	25.22	640.6	30.06	763.6	48.2	9.0	38	nw.	3.8	1.7			0			0	0		M. Cave, for Dr. Fines.
Montpellier, *Normal School*	30.33	770.3	30.46	776.7	71.6	22	41	*ene.*			2		0			0	0	*clear*	M. *Galzin, Director.*
Nancy, Normal School	29.79	756.7	30.58	776.7	58.3	14.6	48	nw.			1		0			0	0	clear	M. Hasse, Director
Nantes, Observatory	30.49	774.5	30.65	778.6	63.7	17.6	52	ene.			0–2		0			0	0		M. Larocque, Director.
Perpignan, Observatory	30.35	770.8	30.46	773.6	75.7	24.3	19	ne.	15.0	6.7			0			0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.59	548.3			35.4	1.9		se.			1		1		W.	0	0	clear	Gen'l de Nansouty, Dir.
Privas, Normal School	29.45	748.1	30.51	774.9	67.3	19.6	36	s.			1					0	0		M. Tallieu.
Puy de Dôme Obs'y, Summit	25.61	650.5			43.3	6.3	64	e.			3		0			0	0	clear	M. Alluard, Director.
Rochefort, Naval Obs'y	30.56	776.3	30.60	777.1	64.4	18.0	100	nne.			1		0			0	0	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	30.38	771.7	30.60	777.2	62.2	16.8	50	ne.			2		0			0	0	clear	M. Mouillot, Director.
Rodez, *Normal School*	28.34	719.7	30.48	774.3	61.9	16.6	47	e.			1		0			0	0	clear	M. Serger, *Director.*
Rouen, Normal School	30.01	777.5	30.66	778.7	58.6	14.8	61	ne.			1		0			0	0	clear	M. Platrier, Director.
Saint Maur, Observatory	30.47	774.0	30.64	778.2	57.9	14.4	51	ene.			2		0			0.004	0.1	clear	M. Renou, Director.
Toulouse, Observatory	29.82	757.4	30.55	776.0	64.0	17.8	70	n.			1		1		W.	0	0	clear	M. Baillaud, Director.
Versailles, Observatory	30.13	765.4	30.63	777.9	56.8	13.8	48	ne.			2					0	0		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	30.36	771.2	30.65	778.6	57.0	13.9	50	ne.			1	ck	0			0	0		M. Marié Davy, Director
GERMAN.																			
Bamberg	29.72	754.9	30.59	777.0	55.4	13.0	33	nw.			2	0	1 s			0	0		Prof. Dr. Hoh.
Berlin	30.18	766.5	30.35	771.0	56.7	13.7	49	w.			3		4			0	0		Prof. Dr. Arndt.
Breslau	29.88	759.0	30.42	772.7	50.4	10.2	49	wnw.			4		4	nnw.		0	0		Royal University Obs'y.
Carlsruhe	30.15	765.7	30.60	777.2	56.8	13.8	56	e.			1		0			0	0		Albert Senz.
Cassel	29.76	755.8	30.47	774.0	58.3	14.6	46	w.			1		0			0	0		Dr. H. Möhl.
Frankfort on the Main	30.18	766.6	30.55	776.0	57.9	14.4	53	w.			1		0			0	0		Physical Society.
Friedrichshafen	29.08	738.6	30.54	775.8	52.2	11.2	64	sw.			3		0			0	0		Wilhelm, Chief Tel.
Hamburg	30.32	770.1	30.41	772.5	56.5	13.6	55	w.			6		2	nw.		0	0		E. Preller.
Kiel	30.25	768.3	30.26	768.7	52.0	11.1	55	w.			4		1			0.004	0.1		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	30.07	763.8	30.50	774.6	55.0	12.8	44	sw.			3		4			0	0		H. Leppig, Asst.
Magdeburg	30.25	768.3	30.44	773.2	57.4	14.1	54	wnw.			5	1 cs	0			0	0		*Dr. Assmann.*
Memel	29.74	755.5	29.79	756.7	42.1	5.6	80	w.			7	7 cs	0						Issermann.
Munich	28.69	728.8	30.59	777.0	56.7	13.7	44	nw.			1		0			0	0		Central Station.
Neufahrwasser	29.95	760.8	29.97	761.2	54.0	12.2	44	w.			7		10			0	0		A. Lothes.
Neustadt, Palatinate	30.05	763.3	30.59	776.9	56.1	13.4	55	calm			0		0			0	0		Dicknether.
Stuttgart	29.61	752.0	30.51	774.9	57.2	14.0	55	n.			1		0			0	0		Prof. Dr. Schoder.
Wustrow	30.21	767.3	30.23	767.9	46.6	8.1	72	sw.			5	0	5 s			0	0		Profs. Brandes & Reimer.
GREEK.																			
Athens	29.72	754.9	30.11	764.9	56.5	13.6		ne.			4.0		1 k			0	0		Schmidt & Wourlisch.
INDIAN.																			
Bellary	28.42	721.9			95.4	35.2	16	se.	2.8	1.3		3 k	6			0	0		
Kurrachee	29.97	761.2	30.02	762.4	77.6	25.3	82	w.	22	9.8			8	wsw.		0	0	gloomy	
Deesa	29.45	748.0	29.92	759.9	90.6	32.6	34	w.					8	nnw.	nnw.	0	0	*gloomy*	
Bombay	29.87	759.1	29.90	759.6	85.2	30.1	56	nw.	17	7.6			8	wnw.	nw.	0	0	d. clouds	
Poona, Yarrowda	28.03	712.0	29.84	757.8	95.2	35.1	13	wnw.	23	10.3			4	w.		0	0	d. clouds	
Belgaum	27.37	695.3	29.90	759.4	80.0	26.7	67	sw.	10	4.5			0			0.19	4.8	blue sky	
Lahore	29.21	741.8	29.95	760.7	83.8	28.8	20	nw.	1.3	0.6			0			0	0	blue sky	
Roorkee	29.00	736.6	29.90	759.5	82.2	27.9	41	calm	1.2	0.5			10			0	0		
Agra	29.33	744.9	29.88	759.1	90.5	32.5	26	calm	3.0	1.3			5		W.	0	0		
Nagpur	28.80	731.4	29.81	757.1	96.7	35.9	17	s.	4.4	2.0			8		s.	0	0	d. clouds	
Jubbulpore	28.55	725.1	29.88	758.9	90.7	32.6	18	s.	3.2	4.3			5		s.	0	0	d. clouds	
Lucknow	29.51	749.5	29.88	758.9	94.5	34.7	16	calm	0.6	0.3			0			0	0	blue sky	
Allahabad	29.54	750.4	29.85	758.1	94.0	34.4	17	ne.	1.1	0.5			5	sw.		0	0	d. clouds	
Patna	29.70	754.5	29.89	759.1	90.4	32.4	25	w.	3.1	1.4			4	w.	w.	0	0	d. clouds	
Hazaribagh	27.88	708.2	29.85	758.2	89.8	32.1	22	nnw.	6.0	2.7			9	nw.	se.	0	0		
Cuttack	29.84	757.8	29.92	759.9	87.8	31.0	43	ssw.	1.6	0.7			3			0	c	d. clouds	
Calcutta, Alipore	29.88	758.9	29.90	759.4	86.2	30.1	35	ssw.	10.0	4.5			1	wnw.		0	0	d. clouds	
Dhubri	29.77	756.1	29.89	759.2	80.2	26.8	44	calm	1.9	0.8			0			0	0	blue sky	
Chittagong	29.87	758.6	29.96	760.9	79.7	26.5	81	ssw.	3.4	1.5			0			0	0	blue sky	
Sibsagar	29.60	751.9	29.94	760.6	72.6	22.6	78	e.	1.6	0.7			4			0	0	*blue sky*	
Jeypore	28.47	723.2	29.90	759.4	88.7	31.5	26	w.	3.7	1.6			2		W.	0	0	d. clouds	
Zanzibar, Africa	29.86	758.4			87.7	30.9	57	ne.	6.8	3.0			3			0	0	d. clouds	
Trichinopoly	29.68	753.9			92.3	33.5	31	e.	2	0.9			0			0	0	blue sky	
ITALIAN.																			
Udine	30.01	762.2	30.42	772.6	68.7	20.4	35	sw.	0.7	0.3			1			0	0		Prof. Giovanni Cloditz.
Milan	29.89	759.2	30.41	772.4	66.6	19.2	45	sw.	4.9	2.2			1	w.		0	0		Prof. Schiaparelli.
Padua	30.32	770.0	30.43	772.8	65.8	18.8	35	wsw.	3.8	1.7			0			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.54	750.3	30.45	773.4	64.9	18.3	42	s.	1.3	0.6			0			0	0		Prof. P. F. Denza.
Genoa	30.24	768.0	30.43	772.9	71.6	22.0	28	w.	2.5	1.1			0			0	0		*Prof. G. M. Garibaldi.*
Mondovi	28.53	724.6	30.45	773.4	63.1	17.3	36	n.			2		0			0	0		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
ITALIAN.—Continued.																			
Pesaro	30.39	771.9	30.44	773.1	61.0	16.1	51	n.	14.3	6.4	.....	.....	0	.....	.....	0	0	.....	Prof. Luigi Guidi.
Florence	30.15	765.7	30.40	772.2	72.0	22.2	24	ne.	.....	.....	2	.....	0	.....	.....	0	0	.....	Prof. Costantino Pitter.
Leghorn	30.25	768.3	30.34	770.5	70.0	21.1	33	e.	1.3	0.6	.....	.....	0	.....	.....	0	0	.....	Prof. P. Monte.
Rome	30.15	765.8	30.32	770.2	69.6	20.9	22	nw.	0	0	.....	.....	0	.....	.....	0	0	.....	Prof. P. S. Ferrari.
Lecce	29.98	761.6	30.24	768.1	60.1	15.6	59	nnw.	22.4	10.0	.....	.....	0	.....	.....	0	0	.....	Prof. C. de Giorgi.
Cosenza	29.38	746.2	30.27	768.9	61.9	16.6	73	wnw.	9.4	4.2	.....	.....	0	.....	.....	0	0	.....	Prof. D. Conti.
Cagliari	30.15	765.8	30.34	770.7	66.7	19.3	44	w.	.....	.....	2	.....	0	.....	.....	0	0	.....	Prof. A. Pacinotti.
Palermo	30.08	763.9	30.33	770.3	64.8	18.2	39	ne.	6.9	3.1	.....	.....	0	.....	.....	0	0	.....	Prof. G. Ciacciatore.
Syracuse	30.19	766.7	30.23	767.9	61.2	16.2	62	ese.	7.4	3.3	.....	.....	0	.....	.....	0	0	.....	Prof. Vincenzo Guiliano.
Sub-series.																			
Naples, S. R	29.78	756.4	30.30	769.5	66.9	19.4	33	nne.	15.0	6.7	.....	.....	1	n.	.....	0	0	.....	Prof. T. Brioschi.
Stelvio	22.54	572.6	.....	.....	38.1	3.4	31	ne.	.....	.....	2	.....	0	.....	.....	0	0	clear	Prof. P. F. Denza.
Valdobbia	22.61	574.2	.....	.....	40.6	4.8	39	se.	.....	.....	2	.....	1	.....	.....	0	0	clear	Prof. P. F. Denza.
JAPANESE.																			
Aomori	29.81	757.2	29.84	757.9	37.0	2.8	69	w.	13.4	6.0	.....	0	0	.....	.....	0.018	0.5	clear	K. Ogawa.
Hakodate	29.79	756.6	29.80	756.9	40.0	4.4	69	w.	10.2	4.6	.....	.....	0	.....	.....	0	0	clear	
Hiroshima, I. M. Obs'y	30.02	762.5	30.04	763.0	48.6	9.2	86	ssw.	2.5	1.1	.....	0	0	.....	.....	0	0	clear	K. Sasaki.
Kanazawa	29.90	759.4	30.01	762.2	48.9	9.4	63	ssw.	5.3	2.4	.....	0	0	.....	.....	0	0	clear	S. Endo.
Kioto	29.87	758.7	30.04	763.0	45.2	7.3	86	s.	2.0	0.9	.....	0	0	.....	.....	0	0	clear	M. Tojima.
Kochi	30.07	763.8	30.09	764.3	51.1	10.6	80	ne.	2.7	1.2	.....	0	0	.....	.....	0	0	clear	
Nagasaki, I. M. Obs'y	29.95	760.7	30.16	766.0	57.7	14.3	79	sw.	8.3	3.7	.....	0	0	.....	.....	0	0	clear	S. Takehayashi.
Niigata	29.93	760.2	29.96	761.0	45.5	7.5	88	se.	3.5	1.6	.....	0	0	.....	.....	0.005	0.1	clear	
Nobiru	29.85	758.2	29.87	758.7	44.8	7.1	53	n.	7.7	3.4	.....	0	0	.....	.....	0.005	0.1	clear	H. Midzushima.
Sapporo	.....	.....	.....	.....	33.5	0.8	83	s.	4.8	2.1	.....	.....	0	.....	.....	0	0	clear	
Tokei Obs'y, Yeddo	29.88	758.9	29.95	760.7	48.6	9.2	74	ssw.	4.9	2.2	.....	0	0	.....	.....	0	0	clear	The Staff.
Wakayama	30.00	762.0	30.05	763.3	50.3	10.2	69	calm	0	0	.....	0	0	.....	.....	0	0	clear	Y. Kuwamuea.
MAURITIUS.																			
Mauritius Observatory	29.83	757.7	30.01	762.2	80.3	26.8	66	ne.	6.0	2.7	.....	.....	10ks;n	.....	.....	0	0	cloudy	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.74	602.5	29.94	760.5	59.0	15.0	77	sse.	.....	.....	.....	0	0	.....	.....	0	0	clear	Vicente Fernandez.
Leon	24.45	621.0	30.19	766.7	55.4	13.0	79	nw.	.....	.....	1	3	0	nw.	.....	0	0	foggy	Prof. M. Leal.
Mazatlan	29.72	755.0	29.99	761.7	65.0	18.3	100	ese.	0.9	0.4	.....	.....	n	.....	calm	0	0	misty	F. Quijano, C. E.
Mexico, Central Obs'y	23.15	588.1	30.26	768.7	51.1	10.6	62	calm	0	0	.....	0	0	.....	.....	0	0	fine	M. Tena, M. D.
Morelia	24.24	615.6	30.37	771.3	58.3	14.6	80	se.	.....	.....	1	1	0	e.	.....	0	0	clear	The Staff.
Pabellon, Aguascalientes	24.01	609.7	30.05	763.3	52.5	11.4	86	.....	.....	.....	.....	6	0	sw.	.....	0	0	foggy	M. V. de Leon, M. E.
Puebla, Catholic Institute	23.45	595.7	30.44	773.2	40.3	4.6	43	calm	0	0	.....	0	3	.....	se.	0	0	clear	Prof. P. Spina.
San Luis Potosi	24.26	616.2	30.16	766.0	52.5	11.4	62	e.	.....	.....	1	.....	10	.....	ne.	0	0	covered	G. Barroeta, M. D.
Vera Cruz	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Zacatecas	22.60	573.9	30.25	768.2	58.7	12.2	57	ne.	5.8	2.5	.....	0	0	.....	.....	0	0	fine	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.65	778.4	30.65	778.4	52.3	11.3	.....	w.	.....	.....	4	.....	.....	.....	.....	0.008	0.2	.....	
Groningen	30.44	773.2	30.50	774.6	53.6	12.0	.....	w.	.....	.....	5	.....	.....	.....	.....	0	0	.....	
Helder	30.53	775.5	30.53	775.5	48.6	9.2	.....	sw.	.....	.....	4	.....	.....	.....	.....	0	0	.....	
Hellevoetsluis	30.61	777.4	30.61	777.4	55.4	13.0	69	wsw.	.....	.....	3	.....	.....	.....	.....	0	0	.....	
Utrecht	30.55	775.9	30.60	777.1	59.0	15.0	59	wsw.	.....	.....	4	.....	2	.....	.....	0	0	lightly cl'dy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.68	753.8	29.74	755.4	47.8	8.8	92	w.	29	13	.....	.....	10	.....	.....	0.142	3.6	raining	
Brono	29.14	740.1	29.18	741.1	28.8	— 1.8	76	nw.	9	4	.....	.....	10	.....	.....	.....	.....	snowing	
Christiania	29.28	743.7	29.42	747.3	59.0	15.0	39	w.	13	6	.....	.....	1	.....	.....	0	0	.....	
Gjæsvær	28.63	727.3	28.66	727.9	26.8	— 2.9	.....	nnw.	16	7	.....	.....	10	.....	.....	.....	.....	.....	
Lodingen	29.01	736.8	29.06	738.0	23.5	— 4.7	62	nnw.	.....	.....	2	.....	2	.....	.....	0.063	1.6	.....	
PORTUGUESE.																			
Angra, Azores	.....	.....	.....	.....	59.7	15.4	87	se.	8.1	3.6	.....	.....	3	.....	.....	0	0	.....	Dr. J. A. Sampaio.
Campo Major	29.36	745.8	30.35	771.0	68.9	20.5	31	ese.	8.1	3.6	.....	.....	0	.....	.....	0	0	.....	Dr. A. M. R. dos Santos.
Funchal, Maderia	30.22	767.5	30.30	769.7	66.0	18.9	57	se.	2.5	1.1	.....	.....	10	.....	.....	0	0	.....	Capt. D. A. de Cunha.
Lisbon, Observatory	30.08	764.1	30.45	773.3	62.2	16.8	63	ene.	4.9	2.2	.....	.....	0	.....	.....	0	0	.....	The Staff.
Ponta Delgada, Azores	30.27	768.8	30.34	770.6	60.8	16.0	73	ese.	3.8	1.7	.....	.....	4	.....	.....	0.035	0.9	.....	
Saint Paul de Loando	29.72	754.9	29.92	759.9	83.3	28.5	87	w.	1.3	0.6	.....	.....	7	s.	.....	0	0	.....	
Serra da Estrella	25.65	651.6	30.42	772.6	51.6	10.9	30	se.	22.4	10.0	.....	.....	2	.....	.....	0	0	.....	
RUSSIAN.																			
Akmolinski	28.69	728.6	29.81	757.2	26.1	— 3.3	96	sw.	45	20	.....	.....	9 k	.....	.....	0	0	.....	Major K. Lasarew.
Archangel	28.66	727.9	28.68	728.4	27.7	— 2.4	79	ese.	4	2	.....	.....	10	.....	.....	0	0	light clouds	Capt. Sselliwerstow.
Astrakhan	30.12	765.0	30.04	762.9	46.4	8.0	67	sw.	18	8	.....	1 cs	0	.....	.....	0	0	.....	Capt. Wisganow.
Barnaul	29.49	749.0	30.01	762.3	28.6	— 1.9	58	sw.	22	10	.....	.....	10	.....	.....	0.020	0.5	.....	Meteorological Obs'y.
Dorpat	29.07	738.4	29.32	744.6	38.5	3.6	90	w.	16	7	.....	.....	10 n	.....	.....	0.008	0.2	snowing	Observatory.
Ekaterinburg	28.12	714.3	29.09	738.8	34.2	1.2	78	wsw.	27	12	.....	.....	10	.....	.....	.....	.....	.....	Meteorological Obs'y.
Kasan	29.16	740.6	29.44	747.7	25.0	— 3.9	61	sw.	4	2	.....	.....	0	.....	.....	0	0	.....	Observatory.
Kertch	30.00	762.0	30.02	762.5	47.3	8.5	50	wnw.	7	3	.....	0	2 s	.....	.....	0	0	light clouds	Lagorio & Sastyrex.
Kieff	29.33	745.0	29.97	761.3	48.9	9.4	39	wnw.	9	4	.....	2 c	0	.....	.....	0	0	.....	Observatory.
Lugan	29.72	754.9	29.93	760.2	41.7	5.4	82	nw.	9	4	.....	.....	10	.....	.....	0	0	.....	Meteorological Obs'y
Moscow	28.99	736.3	29.47	748.6	35.6	2.0	59	s.	7.8	3.5	.....	0	8 ks	.....	.....	0.205	5.2	.....	Meteorological Obs'y.
Nikolaiev	30.04	762.9	30.11	764.7	49.1	9.5	78	n.	4	2	.....	.....	9 n	.....	.....	0	0	.....	Capt. Kurdakow.
Nikolaievsk, on the Amoor	29.47	748.6	29.56	750.8	13.3	—10.4	98	calm	0	0	.....	.....	10	.....	.....	0.106	2.7	snowing	Lieut. Iwanow.
Pekin, China	29.84	758.0	29.98	761.6	60.1	15.6	17	nw.	4	2	.....	0	0	.....	.....	0	0	.....	Physical Observatory
St. Petersburg	29.01	736.9	29.03	737.3	39.2	4.0	73	w.	29	13	.....	ck	5 k	.....	.....	0	0	.....	Central Physical Obs
Tashkend, Laboritory	28.64	727.4	30.26	768.6	43.2	6.2	84	calm	0	0	.....	.....	10	.....	.....	0	0	heavy cl'ds.	Telch, A. M.
Tiflis	28.58	726.0	30.02	762.4	51.1	10.6	49	s.	2	1	.....	10 ck	0	.....	.....	0.008	0.2	.....	Physical Observatory
Vladivostok	29.50	749.3	29.57	751.0	35.1	1.7	80	se.	2	1	.....	.....	10 n	.....	.....	0	0	.....	
Warsaw	29.75	755.7	30.18	766.6	49.6	9.8	41	w.	34	15	.....	4 cs	0	.....	.....	.....	.....	.....	Astronomical Obs'y
Wilna	29.39	746.5	29.82	757.3	43.9	6.6	67	wsw.	11	5	.....	.....	10	.....	.....	0.012	0.3	heavy cl'ds.	Berg, Assistant.
Yeniseisk	29.85	758.2	30.16	766.0	17.6	— 8.0	67	sw.	2	1	.....	.....	3	.....	.....	0.035	0.9	.....	M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	30.34	770.6	30.44	773.2	69.1	20.6	43	sw.	4.0	1.8	.....	.....	0	.....	.....	0	0	clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.49	774.4	30.55	775.9	69.3	20 7	57	sw.	2.5	1.1	.....	0	0	.....	.....	0	0	clear	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.51	698.8	30.47	773.9	62.4	16.9	31	n.	2.2	1.0	.....	0	0	.....	.....	0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	28.23	717.1	30.45	773.3	67.3	19.6	35	e.	12.3	5.5	.....	0	0	.....	.....	0	0	clear	The Staff.
Murcia, Met. Obs'y	30.32	770.2	30.47	774.0	69.8	21.0	47	sw.	2.5	1.1	.....	0	0	.....	.....	0	0	clear	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.51	749.6	30.39	772.0	72.0	22.2	40	calm	0	0	.....	.....	1	.....	.....	0.004	0.1	almost clear	R. Gil Vallanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I	30.10	764.6	30.17	766.3	66.0	18.9	79	ese.	1.8	0.8	.....	4 c;ck	0	nw.	.....	0	0	fair	Benito Vines, S. J.
Manilla, Philippine Islands	30.01	762.3	30.07	763.7	79.1	26.2	65	e.	5.5	2.5	.....	0	1 ks	.....	.....	0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.27	768.8	30.37	771.4	66.0	18.9	47	e.	12.7	5.7	.....	0	1	.....	se.	0	0	.....	Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	30.00	762.0	30.09	764.3	73.8	23.2	97	calm	0	0	.....	4 cs	4 k	s.	s.	0.268	6.8	d. clouds	Manuel Maeu.
Tuguegarao, Philippine Id's	30.00	762.0	30.13	765.3	72.2	22.3	92	nnw.	2.5	1.1	.....	.....	10 kn	.....	.....	0.23	5.8	covered	José L. Yrastorza.
SWEDISH																			
Haparanda	28.88	736.1	29.02	737.1	25.2	— 3.8	69	nw.	.....	.....	2	.....	0	.....	.....	0	0	.....	
Umea	29.00	736.7	29.06	738.0	36.0	2.2	58	nw.	.....	.....	4	.....	7	.....	.....	0	0	.....	
Hernosand	29.10	739.1	29.15	740.4	36.1	2.3	80	nw.	.....	.....	2	.....	10	.....	.....	0	0	.....	
Stockholm	29.11	739.4	29.29	743.9	52.9	11.6	47	w.	.....	.....	7	.....	4	.....	.....	0.004	0.1	.....	
Wisby	29.50	749.3	29.56	750.8	43.9	6.6	71	w.	.....	.....	4	.....	3	.....	.....	0.016	0.4	.....	
Sub-series.																			
Upsala	29.10	739.2	29.19	741.4	53.4	11.9	54	w.	26.8	12.0	.....	.....	2	wnw.	.....	0	0	.....	S. G. Fineman.
SWISS.																			
Geneva	29.11	739.4	30.53	775.4	57.6	14.2	49	calm	.....	.....	0	.....	.....	.....	.....	0	0	clear	The Observatory.

STATIONS.	BAROMETER. Corrected for instrumental error and for temperature.	BAROMETER. Reduced to sea-level.	Temperature of the air.	Relative humidity.	WIND. Direction.	WIND. Velocity.	WIND. Force.	CLOUDS. Amount and kind. Upper.	CLOUDS. Amount and kind. Lower.	CLOUDS. Direction. Upper.	CLOUDS. Direction. Lower.	Rainfall or melted snow in the past 24 hours.	WEATHER.	OBSERVERS.
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
TURKISH.																	
Constantinople	.....	.....	30.18	766.5	46.7	7.9	64	n.	19	8.5	.....	.....	9	.....	ne.	0	0	.....	The Observatory.
Valona	.....	.....	30.23	767.8	56.8	13.8	.....	nw.	.....	.....	1	.....	0	.....	.....	0	0	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	29.73	755.2	56.5	13.6	76	ssw.	.....	.....	3	.....	10 n	.....	sw.	0.52	13.2	.....	Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	30.17	766.3	30.26	768.6	32.8	0.4	78	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	J. O. Barnes.
Alpena, Michigan	29.62	752.3	30.32	770.1	11.8	—11.2	80	nw.	6	2.7	.....	2 cs	3 s	nw.	.....	0.06	1.5	fair	Jas. J. Fitzgerald.
Atlanta, Georgia	28.91	734.3	30.12	765.0	57.0	13.9	96	nw.	5	2.2	.....	.....	10 s	.....	calm	0.34	8.6	cloudy	H. Hall.
Atlantic City, New Jersey	30.04	763.0	30.05	763.3	33.4	0.8	94	ne.	21	9.4	.....	.....	10 n	.....	.....	0.21	5.3	heavy snow	Jas. M. Watson.
Augusta, Georgia	29.88	758.9	30.08	764.0	54.6	12.6	86	calm	0	0	.....	10 c	0	.....	.....	0.24	6 1	cloudy	John Healy.
Baltimore, Maryland	30.08	764.0	30.13	765.3	34	1.1	89	ne.	1	0.4	.....	.....	10 s	.....	ne.	0.46	11.7	cloudy	Robert Seyboth.
Barnegat, New Jersey	30.08	764.0	30.10	764.5	33.0	0.6	100	e.	24	10.7	.....	.....	10 n	.....	.....	0.15	3.8	light snow	Chas. F. Merritt.
Bismarck, Dakota	28.18	715.8	30.10	764.5	23	— 5.0	88	se.	14	6.3	.....	.....	10 s	.....	.....	0.01	0.3	cloudy	Cyrus Cramer.
Boise City, Idaho	26.91	683.5	29.83	757.7	31	— 0.6	71	se.	4	1.8	.....	6 k	0	w.	.....	0.20	5.1	fair	B. E. Light.
Boston, Massachusetts	30.11	764.8	30.27	768.8	31.0	— 0.6	88	se.	11	4.9	.....	.....	10 s	.....	se.	0	0	cloudy	O. B. Cole.
Brownsville, Texas	30.02	762.5	30.08	764.0	74	23.3	90	se.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. C. Galloway.
Buffalo, New York	29.41	747.0	30.20	767.1	25.2	— 3.8	89	ne.	4	1.8	.....	.....	sk.	.....	.....	0.01	0.3	dense smoke	Wm. Finn.
Burlington, Vermont	29.94	760.5	30.25	768.3	26.0	— 3.3	64	s.	1	0.4	.....	9 ck	0	w.	.....	0	0	cloudy	G. C. Schaeffer.
Cairo, Illinois	29.90	759 4	30.32	770.1	39.8	4.3	84	n.	12	5.4	.....	0	0	.....	.....	0	0	clear	W. H. Ray.
Campo, California	27.45	697.2	30.06	763.5	44.4	6.9	93	sw.	4	1.8	.....	.....	fg.	.....	.....	0	0	dense fog	W. H. Clendenon.
Camp Thomas, Arizona	27.27	692.6	30.05	763.3	38.5	3.6	66	calm	.....	.....	0	1 cs	0	.....	.....	0	0	clear	J. T. Fitzgerald.
Cape Henry, Virginia	29.97	761.2	29.99	761.7	44	6.7	93	nw.	17	7.6	.....	.....	10 s	.....	.....	0.04	1.0	cloudy	J. E. Lanouette.
Cape May, New Jersey	30.01	762.2	30.04	763.0	36	2.2	54	ne.	25	11.2	.....	.....	10 n	.....	ne.	1.00	25.4	light rain	W. Bolten.
Castroville, Texas	29.28	743.7	30.10	764.5	69	20.6	93	calm	0	0	.....	.....	10 s	.....	.....	0	0	threatening	T. Jones.
Cedar Keys, Florida	30.18	766.6	30.20	767.1	66	18.9	84	w.	3	1.3	.....	4 ck	0	.....	.....	0	0	fair	F. W. Mixer.
Champaign, Illinois	29.40	746.7	30.26	768.6	34.7	1.5	80	ne.	13	5.8	.....	.....	10 s	.....	ne.	0	0	cloudy	L. A. Welsh.
Charleston, S. Carolina	29.97	761.2	30.03	762.7	59	15.0	81	w.	8	3.6	.....	7 cs	3 s; fg	w.	w.	0.10	2.5	cloudy	J. H. Smith.
Charlotte, N. Carolina	29.14	740.1	30.02	762.5	53.0	11.7	93	w.	4	1.8	.....	10 cs	fg.	.....	.....	0.02	0.5	cloudy	D. O. Donoghue.
Chattanooga, Tennessee	29.31	744.5	30.16	766.1	53.0	11.7	61	nw.	5	2.2	.....	3 cs	0	w.	.....	0	0	clear	B. L. Goulding.
Cheyenne, Wyoming	23.88	606.5	30.06	763.5	29.5	— 1.4	53	w.	4	1.8	.....	0	0	.....	.....	0	0	clear	E. McGovern.
Chicago, Illinois	29.55	750.6	30.29	769.4	36.1	2.3	85	ne.	6	2.7	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	J. Mitchell.
Chincoteague, Virginia	29.94	760.5	29.96	761.0	41	5.0	100	nw.	20	8.9	.....	.....	10 s	.....	nw.	0.03	0.8	cloudy	F. C. Pratz.
Cincinnati, Ohio	29.54	750.3	30.23	767.8	43.1	6.2	74	n.	8	3.6	.....	.....	10 s	.....	.....	0	0	cloudy	R. B. Watkins.
Cleveland, Ohio	29.47	748.5	30.25	768.3	31.6	— 0.2	82	n.	14	6.3	.....	.....	10 s	.....	n.	0.10	2.5	cloudy	J. B. Newlin.
Coleman City, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	L. Dorman.
Columbus, Ohio	29.32	744.7	30.21	767.3	35	1.7	79	nw.	10	4.5	.....	.....	10 s	.....	.....	0	0	cloudy	D. Cuthbertson.
Concho, Texas	28.12	714.2	30.09	764.3	65	18.3	93	sw.	6	2.7	.....	.....	10 s	.....	w.	0	0	cloudy	W. W. McConihe.
Davenport, Iowa	29.62	752.3	30.31	769.9	40	4.4	73	ne.	3	1.3	.....	.....	10 s	.....	ne.	0	0	cloudy	R. R. Martin.
Dayton, Washington T'y	27.87	707.9	29.68	753.9	37.2	2.9	85	sw.	3	1.3	.....	.....	10 s	.....	sw.	0.03	0.8	threatening	H. Clifford.
Deadwood, Dakota	25.09	637.3	29.93	760.2	31.5	— 0.3	74	nw.	3	1.3	.....	0	0	.....	.....	inap.	inap.	clear	G. W. Scott.
Decatur, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	D. J. Carr.
Delaware Breakwater, Del.	29.98	761.5	30.00	762.0	36	2.2	100	ne.	42	18.8	.....	.....	10 ks	.....	ne.	0.60	15.2	cloudy	A. Schneider.
Denison, Texas	29.26	743.2	30.10	764.5	61.6	16.4	60	ne	3	1.3	.....	.....	10 s	.....	.....	0	0	cloudy	J. McGlone.
Denver, Colorado	24.62	625.3	30.06	763.5	43.0	6.1	24	w.	8	3.6	.....	0	0	.....	.....	0	0	clear	F. M. Neal.
Des Moines, Iowa	29.36	745.7	30.32	770.1	37	2.8	82	calm	0	0	.....	.....	10 s	.....	s.	0	0	cloudy	F. W. Conrad.
Detroit, Michigan	29.55	750.6	30.36	771.1	31.3	— 0.4	88	n.	9	4.0	.....	.....	10 s	.....	calm	0.10	2.5	cloudy	C. F. R. Wappenhans.
Dodge City, Kansas	27.47	697.7	30.20	767.1	36	2.2	82	se.	10	4.5	.....	0	0	.....	.....	0	0	clear	E. A. Thomas.
Dubuque, Iowa	29.55	750.6	30.30	769.6	34.3	1.3	78	nw.	1	0.4	.....	.....	10 s	.....	calm	0	0	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.56	750.8	30.30	769.6	32	0.0	88	ne.	1	0.4	.....	.....	10 s	.....	calm	0.02	0.5	cloudy	N. B. Conger.
Eagle Pass, Texas	29.27	743.4	30.09	764.3	67.0	19.4	90	se.	5	2.2	.....	0	0	.....	.....	0	0	clear	F. Belford.
Eagle Rock, Idaho	25.09	637.3	29.96	761.0	33	0.6	81	calm	0	0	.....	.....	10 n	.....	.....	0.13	3.3	light snow	J. M. Clifford.
Eastport, Maine	30.31	769.9	30.38	771.6	24	— 4.4	73	w.	2	0.9	.....	5 k	0	sw.	.....	0	0	fair	J. H. Melton.
El Paso, Texas	26.32	668.5	30.12	765.0	47	8.3	80	w.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.45	748 0	30.22	767.6	31	— 0.6	78	n.	9	4.0	.....	.....	10 s	.....	n.	0.01	0.3	cloudy	R. H. Paxton.
Escanaba, Michigan	29.60	751.8	30.31	769.9	30	— 1.1	88	n.	4	1.8	.....	.....	10 s	.....	.....	0.16	4.1	cloudy	C. Dill.
Florence, Arizona	28.53	724.6	30.10	764.5	41.0	5.0	52	sw.	2	0.9	.....	7 cs	0	sw.	.....	0	0	fair	R. R. Herman.
Fort Apache, Arizona	25.12	638.0	30.14	765.5	31	— 0.6	65	e.	2	0.9	.....	0	0	.....	.....	0	0	clear	W. C. Barnes.
Fort Assinnaboine, Montana	26.81	681.0	29.82	757.4	26	— 3.3	56	calm	0	0	.....	0	2 s	.....	.....	0	0	clear	B. O. Lenoir.
Fort Bennett, Dakota	28.40	721.3	30.10	764.5	29	— 1.7	80	se.	12	5.4	.....	.....	10 s	.....	.....	0	0	cloudy	T. Gibson.
Fort Benton, Montana	26.87	682.5	29.85	758.2	23	— 5.0	73	calm	0	0	.....	0	3 ks	.....	calm	0	0	clear	S. Wheaton.
Fort Buford, Dakota	27.90	708.6	30.04	763.0	28	— 2.2	77	se.	18	8.0	.....	.....	10 s	.....	calm	0	0	cloudy	A. H. Bell.
Fort Custer, Montana	26.53	673.8	29.86	758.4	30	— 1.1	80	calm	0	0	.....	0	3 s	.....	calm	0	0	clear	V. Verge.
Fort Davis, Texas	25.21	640.3	30.09	764.3	50	10.0	80	sw.	2	0.9	.....	0	0	.....	.....	0.01	0.3	clear	J. Williams.
Fort Elliott, Texas	27.27	692.6	30.10	764.5	44	6.7	68	s.	1	0.4	.....	7 k	0	s.	.....	0	0	fair	W. J. Cundall.
Fort Gibson, Indian T'y	29.55	750.6	30.14	765.5	48.3	9.1	71	e.	10	4 5	.....	0	0	.....	.....	0	0	clear	J. B. Campbell.
Fort Grant, Arizona	25.27	641.8	30.10	764.5	50	10.0	19	e.	8	3.6	.....	0	0	.....	.....	0	0	clear	T. J. Macgowan.
Fort Griffin, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	G. H. Hayne.
Fort Keogh, Montana	27.21	691.1	29.86	758.4	32	0.0	81	se.	7	3.1	.....	7 cs	0	.....	.....	0	0	fair	W. B. Stockman.
Fort Macon, North Carolina	30.00	762.0	30.01	762.2	54	12.2	64	w.	8	3.6	.....	.....	ba.; 10k	.....	c; w	0.12	3.0	cloudy	L. Leonardy.
Fort McKavett, Texas	27.82	706.6	30.14	765.5	64.7	18.2	93	s.	11	4.9	.....	3 k	0	.....	.....	0	0	fair	J. E. Thatcher.
Fort Missoula, Montana	26.36	669.5	29.74	755.4	30	— 1.1	88	ne.	1	0.4	.....	.....	10 s	.....	.....	0	0	cloudy	J. H. Jones.
Fort St. Michaels, Alaska	30.16	766.1	30.20	767.1	27	— 2.8	88	se.	5	2.2	.....	0	0	.....	.....	0	0	clear	A. P. Leavitt.
Fort Shaw, Montana	26.00	660.4	29.80	756.9	21	— 6.1	73	w.	4	1.8	.....	1 cs	0	.....	.....	0	0	clear	A. L. Mathews.
Fort Sill, Indian Territory	28.82	732.0	30.11	764.8	55.3	12.9	87	ne.	5	2.2	.....	9 k	0	sw.	.....	0	0	cloudy	T. Cleary.
Fort Stevenson, Dakota	28.18	715.8	30.16	766.1	16	— 8.9	80	se.	7	3.1	.....	.....	10 s	.....	calm	0	0	cloudy	W. Burrows.
Fort Verde, Arizona	.....	.....	.....	.....	34.9	1.6	56	w.	.....	.....	1	4 cs	2 s	s.	sw.	0	0	fair	D. Brooks.
Fort Washakie, Wyoming	24.21	614.9	.....	.....	39.1	3.9	52	w.	12	5.4	.....	0	5 k	.....	w.	0	0	fair	T. M. Ambler.
Fredericksburg, Texas	28.31	719.1	30.07	763.8	65	18.3	93	s.	2	0.9	.....	0	5 ks	.....	s.	0	0	fair	H. S. Miles.
Galveston, Texas	30.07	763.8	30.11	764.8	70	21.1	95	s.	12	5.4	.....	2 c	3 s	.....	sw.	0	0	fair	E. O'C. MacInerney.
Grand Haven, Michigan	29.60	751.8	30.30	769.6	32.0	0.0	88	ne.	5	2.2	.....	0	0	.....	.....	0.05	1.3	clear	W. A. Reid.
Hatteras, North Carolina	29.96	761.0	29.98	761.5	54	12.2	86	w.	12	5.4	.....	.....	10 s	.....	w.	0.15	3.8	cloudy	R. M. Crawford.
Helena, Montana	25.45	646.4	29.82	757.4	28	— 2.2	59	w.	2	0.9	.....	0	0	.....	.....	0	0	clear	N. C. Smith.
Henrietta, Texas	29.11	739.4	30.15	765.8	57	13.9	80	e.	8	3.6	.....	.....	10 s	.....	.....	0	0	cloudy	J. W. Byram.
Huron, Dakota	28.71	729.2	30.19	766.8	32.2	0.1	81	se.	19	8.5	.....	.....	10 s	.....	.....	0	0	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.40	746.7	30.24	768.1	38	3.3	85	n.	7	3.1	.....	.....	10 s	.....	n.	0	0	threatening	O. Schulze
Indianola, Texas	30.05	763.3	30.08	764.0	72.1	22.3	97	s.	16	7.2	.....	.....	10 s; ks	.....	s.	0	0	cloudy	I. A. Reed.
Jacksboro, Texas	28.90	734.0	30.10	764.5	59	15.0	75	e.	8	3.6	.....	0	5 s	.....	.....	0	0	fair	J. P. Sherry.
Jacksonville, Florida	30.10	764.5	30.14	765.5	63	17.2	84	sw.	14	6.3	.....	3 cs	6 s	.....	sw.	0	0	cloudy	J. W. Smith.
Keokuk, Iowa	29.59	751.6	30.28	769.1	37.0	2.8	82	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	F. Z. Gosewisch
Key West, Florida	30.17	766.3	30.19	766.8	70.0	21.1	68	se.	3	1.3	.....	1 c	4 s; k	.....	se.	0	0	fair	L. M. Melbourne.
Kittyhawk, North Carolina	29.98	761.5	30.00	762.0	49	9.4	96	w.	9	4.0	.....	.....	10 n	.....	w.	0.10	2.5	light rain	E. A. Beals.
Knoxville, Tennessee	29.10	739.1	30.16	766.1	47.5	8.6	70	ne.	7	3.1	.....	2 c	0	nw.	.....	0.09	2.3	clear	J. A. Cody.
La Crosse, Wisconsin	29.46	748.3	30.28	769.1	37	2.8	72	calm	0	0	.....	.....	10 s	.....	.....	0.02	0.5	cloudy	S. C. Emery.
La Mesilla, New Mexico	26.16	664.5	30.11	764.8	41.2	5.1	76	calm	0	0	.....	0	0	.....	.....	0	0	clear	N. D. Lane.
Leavenworth, Kansas	29.35	745.5	30.29	769.4	34	1.1	72	ne.	3	1.3	.....	0	0	.....	.....	0	0	clear	A. W. Browne.
Lewiston, Idaho	28.81	731.8	29.67	753.6	40	4.4	39	e.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	W. Blake.
Little Rock, Arkansas	29.87	758.7	30.20	767.1	54	12.2	61	ne.	12	5.4	.....	0	7 ks	.....	s.	0.59	15.0	fair	M. F. Burrows.
Los Angeles, California	29.72	754.9	30.12	765.0	52.1	11.2	80	se.	3	1.3	.....	.....	10 s	.....	calm	0.98	24.9	cloudy	E. F. Kubel.
Louisville, Kentucky	29.62	752.3	30.21	767.3	42	5.6	82	nw.	11	4.9	.....	.....	10 s	.....	.....	0	0	cloudy	H. C. Smith.
Lynchburg, Virginia	29.30	744.2	30.02	762.5	36.5	2.5	84	calm	0	0	.....	.....	fg.	.....	.....	0.20	5.1	dense fog	T. H. Breen.
Madison, Wisconsin	29.25	742.9	30.32	770.1	32	0.0	78	n.	3	1.3	.....	.....	10 s	.....	n.	0.02	0.5	cloudy	O. A. Shaw.
Marquette, Michigan	29.57	751.1	30.34	770.6	31	— 0.6	88	nw.	5	2.2	.....	.....	10 s	.....	calm	0.04	1.0	cloudy	I. Gilligan
Mason, Texas	28.37	720.6	30.06	763.5	65.1	18.4	93	s.	6	2.7	.....	.....	1 s	.....	calm	0	0	clear	A. M. Wilson.
Memphis, Tennessee	29.90	759.4	30.25	768.3	47	8.3	63	n.	6	2.7	.....	0	0	.....	.....	0.02	0.5	clear	D. T. Flannery.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–01	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Milwaukee, Wisconsin	29.51	749.5	30.30	769.6	35	1.7	89	n.	2	0.9	.....	.....	10 s	.....	n.	0.05	1.3	cloudy	W. Line.
Mobile, Alabama	30.13	765.3	30.17	766.3	67	19.4	90	calm	0	0	.....	1 cs	4 ks	.....	w.	0	0	fair	J. D. Paxton.
Montgomery, Alabama	29.89	759.2	30.13	765.3	63.5	17.5	89	w.	6	2.7	.....	hz.	8 s	.....	w.	0.07	1.8	threatening.	J. B. McLaughlin.
Moorhead, Minnesota	29.19	741.4	30.27	768.8	4	—15.6	72	calm	0	0	.....	.....	10 s	.....	.....	0.03	0.8	cloudy	H. Bessant.
Morgantown, W. Virginia	29.08	738.6	30.14	765.5	39.0	3.9	76	ne.	5	2.2	.....	.....	10 s	.....	.....	0.21	5.3	cloudy	J. Sprigg, jr.
Mt. Washington, N. H.	23.68	601.5	30.20	767.1	21.0	— 6.1	78	nw.	15	6.7	.....	4 cs	2 s	w.	nw.	0	0	fair	J. G. Linsley.
Nashville, Tennessee	29.68	753.9	30.24	768.1	44.0	6.7	72	nw.	4	1.8	.....	3 ck	0	n.	.....	0	0	clear	L. A. Jesunofsky.
New Haven, Connecticut	30.10	764.5	30.22	767.6	28.5	— 1.9	94	ne.	9	4.0	.....	.....	10 n	.....	.....	0.01	0.3	light snow	J. H. Sherman.
New London, Connecticut	30.19	766.8	30.24	768.1	33	0.6	68	n.	8	3.6	.....	.....	10 s	.....	n.	0	0	cloudy	J. G. Lynch.
New Orleans, Louisiana	30.10	764.5	30.16	766.1	67.2	19.6	93	sw.	3	1.3	.....	.....	fg.	.....	.....	0	0	dense fog	A. J. Armstrong.
Newport, Rhode Island	30.18	766.6	30.23	767.8	34.0	1.1	78	e.	12	5.4	.....	.....	10 ks	.....	e.	0	0	cloudy	W. McGillivray.
New River, N. Carolina	.....	.....	.....	.....	51	10.6	93	w.	.....	.....	1	4 c	5 s	w.	.....	0.06	1.5	cloudy	C. C. Corbin.
New Shoreham, Rhode I'd	30.18	766.6	30.21	767.3	35.8	2.1	72	se.	18	8.0	.....	.....	10 ks	.....	se.	0	0	cloudy	W. Davis.
New York, New York	29.99	761.7	30.17	766.3	32	0.0	85	ne.	18	8.0	.....	.....	10 n	.....	.....	0.02	0.5	light snow	E. B. Garriott.
Norfolk, Virginia	29.97	761.2	30.00	762.0	46	7.8	76	nw.	5	2.2	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	J. T. Elker.
North Platte, Nebraska	27.06	687.3	30.12	765.0	36.6	2.6	69	se.	12	5.4	.....	0	0	.....	.....	0	0	clear	E. F. Brady.
Olympia, Washington T'y	29.60	751.8	29.64	752.8	43.0	6.1	93	n.	2	0.9	.....	.....	10 s	.....	calm	0	0	cloudy	J. Dascomb.
Omaha, Nebraska	29.05	737.9	30.30	769.6	34.5	1.4	77	se.	10	4.5	.....	.....	10 s	.....	.....	0	0	cloudy	A. Pollak.
Ooglaamie, Pt. Barrow, Alas.	30.66	778.7	30.68	779.3	—23.7	—30.9	79	eno.	16	7.2	.....	0	0	.....	.....	0	0	clear	P. H. Ray.
Oswego, New York	29.86	758.4	30.20	767.1	30.2	— 1.0	76	se.	8	3.6	.....	.....	10 s	.....	.....	0	0	threatening	S. W. Benil.
Palestine, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	L. M. Pindell.
Pensacola, Florida	30.13	765.3	30.16	766.1	65.8	18.8	94	sw.	3	1.3	.....	0	1 s	.....	w.	0	0	clear	M. McGauran.
Philadelphia, Pa	30.03	762.7	30.13	765.3	32	0.0	100	ne.	14	6.3	.....	.....	10 n	.....	ne.	0.41	10.4	light snow	T. F. Townsend.
Pike's Peak, Colorado	17.63	447.8	30.22	767.6	8.5	—13.1	71	sw.	30	13.4	.....	0	0	.....	.....	0	0	clear	L. M. Dey.
Pioche, Nevada	23.91	607.3	30.05	763.3	35	1.7	72	s.	16	7.2	.....	4 k	6 ks	s.	s.	0	0	threatening	C. K. Kitchel.
Pittsburg, Pennsylvania	29.31	744.5	30.16	766.1	34.8	1.6	72	n.	7	3.1	.....	.....	10 s	.....	n.	0.24	6.1	cloudy	J. H. Bryce.
Port Eads, Louisiana	30.19	766.8	30.20	767.1	63.2	17.3	93	s.	4	1.8	.....	2 c	hz.	w.	.....	inap.	inap.	clear	H. G. Christian.
Port Huron, Michigan	29.57	751.1	30.29	769.4	26.7	— 2.9	87	n.	11	4.9	.....	.....	10 s	.....	n.	0.11	2.8	cloudy	W. O. Bailey.
Portland, Maine	30.25	768.3	30.30	769.6	30.0	— 1.1	77	nw.	4	1.8	.....	2 ck	8s;hz	calm	calm	0	0	cloudy	D. C. Murphy.
Portland, Oregon	29.57	751.1	29.63	752.6	41.0	5.0	82	nw.	5	2.2	.....	.....	10 s	.....	w.	0	0	cloudy	M. L. Hearne.
Portsmouth, N. Carolina	.....	.....	.....	.....	55	12.8	86	w.	13	5.8	.....	.....	10 ks	.....	nw.	0.23	5.8	cloudy	F. P. Chaffee.
Prescott, Arizona	24.79	629.7	30.13	765.3	35	1.7	22	s.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. Mc N. Wright.
Provincetown, Mass	30.23	767.8	30.26	768.6	33	0.6	78	se.	13	5.8	.....	.....	10 s	.....	se.	0	0	cloudy	P. T. Jenkins.
Punta Rassa, Florida	30.19	766.8	30.20	767.1	64	17.8	73	e.	4	1.8	.....	6 c	0	nw.	.....	0	0	fair	W. J. Evans.
Red Bluff, California	29.50	749.3	29.88	758.9	41.2	5.1	92	se.	9	4.0	.....	0	4 s	.....	.....	0.41	10.4	fair	J. M. Frantz.
Rio Grande City, Texas	29.83	757.7	30.07	763.8	70	21.1	90	se.	4	1.8	.....	0	5 s	.....	se.	0	0	fair	W. H. Taylor.
Rochester, New York	29.49	749.0	30.19	766.8	28	— 2.2	88	e.	2	0.9	.....	.....	10ks;sk	.....	.....	0.02	0.5	cloudy	A. T. Sherwood.
Roseburg, Oregon	29.18	741.2	29.74	755.4	39.5	4.2	86	calm	0	0	.....	.....	10 s	.....	.....	0.11	2.8	threatening.	J. J. Nanry.
Sacramento, California	29.84	757.9	29.92	760.0	43.0	6.1	93	se.	7	3.1	.....	.....	10 s	.....	.....	0.85	21.6	cloudy	J. A. Barwick.
St. Louis, Missouri	29.67	753.6	30.30	769.6	38.4	3.6	84	n.	8	3.6	.....	.....	10 s	.....	n.	0	0	cloudy	J. H. Webber.
St. Paul, Minnesota	29.36	745.7	30.28	769.1	32.0	0.0	88	se.	1	0.4	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	O. S. M. Cone.
St. Vincent, Minnesota	29.32	744.7	30.26	768.6	— 1	—18.3	100	calm	0	0	.....	0	4 s	.....	.....	0	0	fair	G. Kingsbury.
Salt Lake City, Utah	25.44	646.2	29.96	761.0	43	6.1	49	se.	23	10.3	.....	0	0	.....	.....	0	0	clear	J. Craig.
San Antonio, Texas	29.38	746.2	30.09	764.3	69.5	20.8	90	calm	0	0	.....	.....	10 s	.....	calm	0	0	cloudy	E. Lane.
San Diego, California	30.02	762.5	30.09	764.3	57.2	14.0	86	s.	7	3.1	.....	.....	10 n	.....	sw.	0.07	1.8	light rain	A. C. Dobbins.
Sandusky, Ohio	29.55	750.6	30.27	768.8	32	0.0	78	n.	19	8.5	.....	.....	10 s	.....	n.	0.28	7.1	cloudy	M. H. Perry.
Sandy Hook, New Jersey	30.13	765.3	30.17	766.3	32.0	0.0	88	ne.	24	10.7	.....	.....	10 n	.....	calm	0.23	5.8	heavy snow	B. A. Blundon.
San Francisco, California	29.84	757.9	29.91	759.7	46	7.8	83	sw.	2	0.9	.....	0	7 s	.....	sw.	0.27	6.9	fair	N. Gorom.
Santa Fé, New Mexico	23.26	590.8	30.24	768.1	41	5.0	40	e.	8	3.6	.....	0	0	.....	.....	0	0	clear	H. N. Jones.
Savannah, Georgia	30.01	762.2	30.10	764.5	60	15.6	73	nw.	4	1.8	.....	.....	10 n	.....	nw.	0.07	1.8	light rain	H. M. Ford.
Shreveport, Louisiana	29.87	758.7	30.12	765.0	69	20.6	93	sw.	4	1.8	.....	0	8 k	.....	sw.	0	0	cloudy	E. N. Meekins.
Silver City, New Mexico	24.31	617.5	30.09	764.3	36	2.2	39	sw.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. B. Wallace.
Sitka, Alaska	29.74	755.4	29.80	756.9	33.5	0.8	62	ne.	19	8.5	.....	0	0	.....	.....	0	0	clear	J. J. McLean.
Smithville, North Carolina	29.98	761.5	30.02	762.5	52	11.1	93	sw.	2	0.9	.....	0	sk.	.....	.....	0.20	5.1	clear	J. C. Rickli.
Spokane Falls, Wash. Ter.	27.60	701.0	29.73	755.1	33.5	0.8	87	calm	0	0	.....	.....	10 s	.....	.....	0.02	0.5	cloudy	D. Moore.
Springfield, Illinois	29.59	751.6	30.31	769.9	43	6.1	74	n.	3	1.3	.....	.....	10 s	.....	n.	0	0	cloudy	T. B. Jennings.
Springfield, Massachusetts	30.13	765.3	30.27	768.8	31.9	— 0.1	60	ne.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	T. S. Outram.
Springfield, Mo	28.77	730.7	30.33	770.4	37	2.8	85	e.	7	3.1	.....	0	0	.....	.....	0	0	clear	J. B. Marbury.
Stockton, Texas	27.03	686.5	30.11	764.8	58.0	14.4	93	s.	12	5.4	.....	0	0	.....	.....	0.01	0.3	clear	J. O'Dowd.
Thatcher's Island, Mass	30.25	768.3	30.31	769.9	34.0	1.1	78	se.	12	5.4	.....	10 k	0	se.	.....	0	0	cloudy	G. Liebmann.
Toledo, Ohio	29.55	750.6	30.28	769.1	30	— 1.1	77	ne.	12	5.4	.....	.....	10 s	.....	ne.	0.04	1.0	cloudy	A. Buell.
Tucson, Arizona	27.59	700.8	30.05	763.3	45	7.2	56	se.	5	2.2	.....	1 c	0	.....	.....	0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.29	744.0	29.67	753.6	38.4	3.6	84	s.	1	0.4	.....	.....	10 s	.....	w.	0.03	0.8	cloudy	R. P. Sibley.
Uvalde, Texas	29.09	738.9	30.07	763.8	70	21.1	90	se.	2	0.9	.....	.....	10 s	.....	se.	0	0	cloudy	E. C. Imlay.
Vicksburg, Mississippi	29.86	758.4	30.12	765.0	68	20.0	90	s.	1	0.4	.....	.....	10 s	.....	calm	0	0	cloudy	T. J. Kenan.
Visalia, California	29.56	750.8	29.94	760.5	51.5	10.8	80	se.	10	4.5	.....	.....	10 n	.....	se.	0.35	8.9	light rain	J. T. Cochran.
Washington, D. C	29.98	761.5	30.10	764.5	32	0.0	100	n.	10	4.5	.....	.....	10 s	.....	ne.	0.48	12.2	cloudy	B. M. Purssell.
West Las Animas, Colorado	26.00	660.4	30.08	764.0	34	1.1	45	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. Grover.
Wickenburg, Arizona	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	H. A. Kremp.
Williamsport, Pa	29.55	750.6	30.18	766.6	33	0.6	68	e.	3	1.3	.....	.....	10 s	.....	.....	0.02	0.5	cloudy	B. F. Hough.
Wilmington, N. Carolina	29.96	761.0	30.02	762.5	53	11.7	86	sw.	1	0.4	.....	hz.	sk.	calm	calm	0.07	1.8	dense haze	S. A. Haney.
Winnemucca, Nevada	25.37	644.4	29.87	758.7	29	— 1.7	80	sw.	6	2.7	.....	.....	10 ks	.....	sw.	0.30	7.6	cloudy	J. R. Williams.
Yankton, Dakota	28.85	732.8	30.24	768.1	33	0.6	78	se.	11	4.9	.....	.....	10 s	.....	.....	0	0	cloudy	J. H. Atfield.
Yuma, Arizona	29.89	759.2	30.04	763.0	51.0	10.6	83	calm	0	0	.....	0	0	.....	.....	0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.03	559.6	.....	.....	54.0	12.2	69	calm	0	0	.....	2 cs;k	1 s	w.	.....	0	0	hazy	Joaquin Gomez.
Bridgetown, Barbados, W.I.	30.05	763.3	30.06	763.5	79	26.1	86	e.	.....	.....	.....	5 k	5 ks	e.	e.	0	0	fair	J. A. Racker.
Buenaventura, U. S. C	29.91	759.7	29.93	760.2	77	25.0	90	n.	5	2.2	.....	.....	10 ks	.....	n.	0.80	20.3	cloudy	J. I. Plume.
Guadeloupe, W. I	30.00	762.0	30.02	762.5	75	23.9	90	e.	.....	.....	.....	3 k	0	.....	.....	0.433	11.0	clear	B. Bigar.
Havana, Cuba, W. I	30.15	765.8	30.20	767.1	72	22.2	66	calm	0	0	.....	2 cs	1 ks	calm	calm	0	0	fair	A. Van Caneghem.
Kingston, Jamaica, W. I	30.05	763.3	30.06	763.5	71.1	21.7	83	n.	1	0.4	.....	0	1 s	.....	e.	0	0	fair	Robert Johnston.
Navassa	30.10	764.5	30.18	766.6	76	24.4	76	ne.	8	3.6	.....	8 ck	5 s	e.	ne.	0	0	.....	F. M. Everett.
Paramaribo, S. A	30.04	763.0	30.04	763.0	78	25.6	86	e.	.....	.....	2	0	5 k	.....	e.	0	0	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.44	747.8	29.90	759.4	80	26.8	90	calm	.....	.....	.....	0	9 ks	.....	calm	0.01	0.3	cloudy	Miss Flora A. Nichols.
Rivas	.....	.....	.....	.....	.....	.....	.....	se.	.....	.....	3	0	9 k	.....	se.	0	0	cloudy	Robert Mason.
Santiago de Cuba, W. I	30.09	764.3	30.12	765.0	74	23.3	63	n.	6	2.7	.....	0	0	.....	.....	0	0	clear	
York Factory, B. A	29.72	754.9	29.78	756.4	4.0	—15.6	87	s.	14	6.3	.....	2 c	0	s.	.....	0	0	fair	W. Wood.

STATIONS AND VESSELS.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.			Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Amount and kind.		Direction.						
								Force.	Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
BRITISH NAVAL.																		
H. M. S. Agincourt, N. 39° 53′, E. 4° 30′	30.44	773.2	60	15.6	70	nw.			2		0							blue sky.
H. M. S. Albatross, Canton, China	30.14	765.5	70	21.1		calm			0		4							d. clouds.
H. M. S. Alert, S. 4° 53′ E. 53° 24′	29.88	758.9	84	28.9	77	nw.			3		6							d. clouds.
H. M. S. Alexandra, Malta, Mediterranean	30.31	769.9	62.5	16.9	65	nnw.			2-3		1	n.						blue sky.
H. M. S. Bacchante, Alexandria, Egypt	29.79	756.7	58	14.4	76	w.			3-6		8	w.						squally.
H. M. S. Boadicea, S. 33° 54′, E. 18° 26′	29.86	758.4	63	17.2	78	w.			1		3	s.						d. clouds.
H. M. S. Champion, S. 32° 00′ W. 72° 40′	29.96	761.0	58	14.4	?	se.			3		10					2	ssw.	overcast.
H. M. S. Cleopatra, N. 18° 59′, E. 30° 30′	29.85	758.2	82	27.8	95	calm			0		8	s.				4	s.	d. clouds.
H. M. S. Comus, N. 4° 46′ E. 113° 40′	29.97	761.2	78	25.6	100	nne.			2		4							d. clouds.
H. M. S. Diamond, S. 37° 23′, E. 99° 36′	30.24	768.1	61.5	16.4	79	ne.			2		10					1	sse.	overcast.
H. M. S. Dido, N. 14° 44′, W. 61° 11′	30.08	764.0	76	24.4		ne.			1-3		4	ne.						squally.
H. M. Dock Yard, Bermuda, W. I.	30.19	766.8	56	13.3	68	wnw.			1		2	wnw.						d. clouds.
H. M. S. Dwarf, S. 35° 01′, W. 56° 40′	29.77	756.1	68	20.0	90	nnw.			1-2		0					1	nw.	blue sky.
H. M. S. Eclipse, S 16° 00′, E. 45° 28′	29.96	761.0	84	28.9		calm			0		3							d. clouds.
H. M. S. Euryalus, Suez, Egypt	29.77	756.1	65	18.3	48	sw.			4		1	wsw.						blue sky.
H. M. S. Fawn, N. 14° 48′ E. 42° 52′	29.72	754.9	83.5	28.6	67	s			1		1					3	ssw.	misty.
H. M. S. Flying Fish, N. 34° 41′, E. 135° 12′	30.01	762.2	54	12.2	79	calm			0		4	w.						misty.
H. M. S. Gannet, S. 35° 20′, W. 81° 25′	30.00	762.0	65	18.3	68	w.			4-5		5	ssw.				2	wsw.	d. clouds.
H. M. S. Garnet, S. 50° 16′ W. 60° 04′	29.59	751.6	52	11.1	86	nnw.			3		9					2	sw.	d. clouds.
H. M. S. Inconstant, S. 18° 45′, E. 89° 00′	30.03	762.7	78	25.6	82	se.			3-4		5	se.				3	se.	d. clouds.
H. M. S. Iron Duke, N. 22° 16′ E. 114° 10′	30.15	765.8	65	18.3	73	ese.			1		3	se.						d. clouds.
H. M. S. Lark, S. 36° 48′, E. 174° 50′	30.12	765.0	68.3	20.2		ne.			6		8					3	ne.	squally.
H. M. S. Liffey, Coquimbo, Chili	29.91	759.7	61	16.1		calm			0		10							overcast.
H. M. S. Magpie, N. 25° 59′, E. 119° 27′	30.18	766.6	63.3	17.4	72	calm			0		0							misty.
H. M. S. Malabar, Suez Canal, Egypt	29.74	755.4	64	17.8	94	wsw.			5-6		6	w.						showery.
H. M. S. Orontes, N. 8° 50′ E. 51° 29	29.92	760.0	80.5	26.9	83	ne.			2		3	ne.				2	ne.	d. clouds.
H. M. S. Rambler, Loango Bay, Lower Guinea, Africa.	29.89	759.2	80	26.7		ssw.			2		2	ssw.				2	ssw.	d. clouds.
H. M. S. Ready, Muscat, Arabia	29.94	760.5	76.1	24.5		se.			5		6							squally.
H. M. S. Rocket, Vancouver Id., Brit. Col.	29.72	754.9	39	3.9	91	wsw.			1		9							d. clouds.
H. M. S. Tamar, N. 36° 35′ W. 1° 29′	30.49	774.4	65.5	18.6	94	ne.			4		7	ne.				1	ene.	d. clouds.
H. M. S. Thalia, S. 11° 08′, W. 29° 05′	30.01	762.2	82.5	28.1		e.			3		1					2	ese.	blue sky.
H. M. S. Triumph, S. 35° 19′, W. 81° 09′	30.01	762.2	65	18.3	73	wsw.			3		7	wsw.				2	ssw.	d. clouds.
H. M. S. Woodlark, Bombay, India	29.89	759.2	86.5	30.3	55	nnw.			4-5		0							misty.
PORTUGUESE NAVAL.																		
Quanza, Santiago, Cape Verd Is.	29.99	761.8	80.6	27.0	56	ne.			2		4		sw.			2	ne.	d. clouds.
SWEDISH NAVAL.																		
Balder, N. 30° 50′ W. 79° 15′	30.03	762.8	69.1	20.6	82	w.			6		9							raining.
UNITED STATES NAVAL.																		
Navy Yard, Pensacola, Fla.	30.13	765.3	69	20.6	85	w.	3	1.3			5		sw.	0	0			fair.
N. Yard, Portsmouth, N. H.	30.32	770.1	27	— 2.8	?	calm	0	0			10							cloudy.
Naval Hospital, Yokohama, Japan	29.80	756.9	52.5	11.4	66	calm			0		0			0	0			clear.
Adams, Callao, Peru	29.69	754.1	68	20.0	95	sse.			1		10					gr'd		cloudy.
Alaska, Valparaiso, Chili	29.91	759.7	56	13.3	59	se.			1		10			0	0	sm'h		cloudy.
Alert, Manila, Philippine Islands*	29.89	759.2	81	27.2	62	se.			2		8?			0	0	sm'h		clear ?
Alliance, N. 19° 07′ W. 69° 27′	30.05	763.3	74	23.3	86	ne.			0-1		8		ne.	light	light	sm'h		cloudy.
Ashuelot, N. 38° 27′ E. 119° 24′	29.95	760.7	48	8.9	56	nnw.			4		0					sm'h		clear.
Brooklyn, S. 46° 22′ W. 57° 12′	29.56	750.8	54	12.2	87	se.	17	7.6			5		se.	0	0	light	se.	fair.
Colorado, New York, N. Y.	30.14	765.5	32	0.0	90	ne.	3	1.3			10		calm					snowing
Enterprise, Santa Lucia, W. I.*	30.02	762.5	77	25.0	86	ene.			1		2							clear.
Essex, N. 12° 20′ W. 20° 29′	30.00	762.0	78	25.6	73	ene.			1		2					long	ne	misty.
Franklin, Norfolk, Va.	30.01	762.2	47	8.3	100	nw.	11	4.9			10		nw.	0.03	0.8			cloudy.
Galena, Palermo, Sicily	30.32	770.1	64	17.8	83	n.			2		0					sm'h		clear.
Independence, Mare Island, Cal.	29.76	755.9	45	7.2	84	se.			2		5		se.	0.35	8.9			fair.
Kearsarge, N. 29° 12′ W. 89° 15	30.19	766.8	66	18.9	94	sw.			1		0							clear.
Lackawana, Valparaiso, Chili†	30.07	763.8	61	16.1	94	sw.			1		10		sw.					cloudy.
Lancaster, Chanak, Turkey, Asia*	30.09	764.3	47	8.3	85	ne.			5		10		ne.			mod	e.	cloudy.
Marion, S. 33° 54′, E. 18° 24′*	29.73	755.1	67	19.4	100	w.			3		5		w.			sm'h		fair.
Michigan, Erie, Pa.	30.04	763.0	31	— 0.6	100	ne.			5		10		n.					cloudy.
Minnesota, Newport, R. I.	30.21	767.3	34	1.1	79	e.	10	4.5			10							cloudy.
Monocacy, Yokohama, Japan.	29.95	760.7	49	9.4	85	calm			0		0							clear.
New Hampshire, Newport, R. I.	30.17	766.3	32	0.0	100	sse.			4		10					sm'h		cloudy.
Nipsic, Lisbon, Portugal	30.41	772.4	62	16.7	72	ese.			2		0					sm'h		clear.
Onward, Callao, Peru†	30.03	762.7	66	18.9	100	sse.			1		10		wnw.			long	w.	cloudy.
Palos, Nagaski Japan	30.18	766.6	60	15 6	82	sw.			1		2							clear.
Passaic, Washington, D. C.	30.11	764.8	31	— 0.6	?	ne.			3		10		calm					cloudy.
Pensacola, S. 16° 30′ W. 73° 53′	29.94	760.5	72	22.2	71	ne.			4		8		sw.	0	0	long	s.	cloudy.
Powhatan, Port Cartries. St. Lucia, W. I.	30.04	763.0	79	26.1	78	ene.			1		5		ene.					fair.
Quinnebaug, N. 40° 05′ E. 26° 21′	30.17	766.3	49	9.4	64	ne.			5		5		ne.			sm'h		fair.
Ranger, N. 17° 42′, W. 101° 42′*	29.90	759.4	72	22.2	62	calm			0		0			0	0	sm'h		clear.
Richmond, Yokohama, Japan*	29.89	759.2	52	11.1	86	nw.			1		2		n.	0	0			fair.
Shenandoah, N. 11° 00′, W. 49° 05′*	30.09	764.3	78	25.6	73	ne.			3		8		ne.			long	ne.	fair.
St. Louis, League Island, Pa.	30.34	770.6	31	— 0.6	100	nne.	12	5.4			10							snowing.
Swatara, N. 34° 15′ E. 137° 33′*	29.84	757.9	59	15.0	65	nw.			4		0					mod.	nw.	misty.
Tennessee, New Orleans, La.	30.14	765.5	67	19.4	100	s.	5	2.2			10			0	0			dense fog.
Vandalia, Key West, Florida*†	30.27	768.8	72	22.2	71	ese.			1		5		se.					fair.
Wabash, Boston, Mass.	30.27	768.8	34	1.1	79	e.	5	2.2			10		se.	0	0			hazy.
Wachusetts, Sitka, Alaska	29.76	755.9	30	— 1.1		nnw.			4		0					sm'h		squally.
Wyoming, Port Royal, S. C.	30.07	763.8	59	15.6	88	sw	11	4.9			10		wnw.	0	0			overcast.
Yantic, N. 28° 43′ W. 88° 00*	30.17	766.3	71	21.7	90	nsw.			0-1		2					sm'h		clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Peruvian, Queenstown, Ireland*	30.44	773.2	44	6.7	.....	wnw.	.....	.....	4	.....	8	.....	wnw.	0	0	.....	.....	cloudy.
S. S. Polynesian, N. 44° 42′, W. 45° 00′.*	29.73	755.1	34	1.1	.....	nnw.	.....	.....	6	.....	10	.....	nnw.	rain	rain	cross	var.	snowing.
S. S. Prussian, N. 46° 59′, W. 37° 55′*	29.97	761.2	57	13.9	.....	ssw.	.....	.....	6	.....	10	.....	ssw.	.....	.....	mod.	ssw.	
S. S. Scandinavian, N. 44° 33′, W. 44° 30′*	29.78	756.4	39	3.9	.....	n.	.....	.....	6	.....	10	.....	n.	snow	snow	cross	n.	snowing.
S. S. Waldensian, Glasgow, Scotland*	30.43	772.9	56	13.3	.....	w.	.....	.....	5	.....	5?	.....	w.	0	0	.....	.....	clear.?
AMERICAN STEAMSHIP COMPANY.																		
S. S. British Crown, N. 46° 35′ W. 38° 04′†	30.04	763.0	56	13.3	.....	sse.	.....	.....	6	.....	10	.....	sw.	13 h'r	13 h'r	h'vy	s.	showery.
S. S. Illinois, Liverpool, Eng	30.59	777.0	54	12.2	93	w.	.....	.....	3	.....	2	.....	w.	.....	.....	mod.	.....	very fine.
S. S. Indiana, N. 38° 59′, W. 71° 26′†	30.10	764.5	39	3.9	82	e.	.....	.....	4	.....	10	.....	.....	light	light	mod.	e.	overcast.
S. S. Ohio, Philadelphia, Penn*†	29.97	761.2	31	— 0.6	100	nne.	.....	.....	5	.....	9	.....	n.	.....	.....	.....	.....	cloudy.
ANCHOR LINE.																		
S. S. Devonia, N. 41° 40′, W. 62° 15′*†	30.40	772.1	30	— 1.1	.....	wnw.	.....	.....	1	.....	1	.....	calm	.....	.....	sm'h	.....	clear..
S. S. Utopia, N. 34° 55′, W. 15° 05′*†	30.26	768.6	62	16.7	88	ne.	.....	.....	3	.....	9?	.....	ne.	0	0	sm'h	ne.	clear.?
ATLAS LINE.																		
S. S. Atlas, Savannilla, U. S. C†	29.96	761.0	76	24.4	81	nne.	.....	.....	3	.....	0	.....	.....	0	0	.....	.....	fine.
S. S. Alvo, N. 22° 47′, W. 74° 25′	30.20	767.1	73	22.8	.....	ene.	.....	.....	5	.....	8	.....	ne.	0	0	mod.	ene.	fine.
S. S. Arden, N. 35° 59′, W. 72° —′	.....	.....	56	13.3	.....	sse.	.....	.....	4	.....	8	.....	sse.	.....	.....	h'vy	sse.	squally.
S. S. Athos, N. 32° 44′ W. 74° 30′	30.18	766.6	.....	.....	.....	nnw.	.....	.....	4	.....	10	.....	.....	light	light	h'vy	nw.	cloudy.
BOSTON AND HALIFAX.																		
S. S. Carroll, Halifax, N. S.†	30.53	775.4	47	8.3	70	var.	.....	.....	.....	.....	.....	.....	.....	0	0	long	sw.	clear.
BRITISH METEOROLOGICAL OFFICE.																		
S. S. Auckland, N. 7° 48′, W. 36° 53′	30.01	762.2	77	25.0	.....	ne.	.....	.....	3	.....	4	.....	.....	.....	.....	.....	.....	blue sky.
Baroda, S. 48° 10′, E. 64° 42′	29.81	757.2	49.4	9.7	89	n.	.....	.....	6	.....	7	.....	.....	.....	.....	.....	.....	misty.
British Merchant, N 19° 39′ E 89° 02′	29.95	760.7	81.5	27.5	74	wsw.	.....	.....	2	.....	0	.....	.....	.....	.....	.....	.....	misty.
Bk. Caldew, N. 6° 06′, W. 32° 30′	30.02	762.5	79.6	26.4	.....	nne.	.....	.....	5	.....	10	.....	.....	.....	.....	.....	.....	overcast.
Bk. Commewyne, N. 23° 22′, W. 63° 20′	30.15	765.8	71.9	22.2	60	ne.	.....	.....	3	.....	5	.....	.....	.....	.....	.....	.....	showery.
Coppename, N. 43° 23′, W. 29° 10′	30.31	769.9	59.5	15.3	76	ssw.	.....	.....	5	.....	6	.....	.....	.....	.....	.....	.....	blue sky.
S. S. Gordon Castle, N. 6° 12′, E. 90° 32′	29.92	760.0	85.5	29.7	74	e.	.....	.....	1	.....	4	.....	.....	.....	.....	.....	.....	d. clouds.
S. S. Humboldt, N. 48° 30′, W. 29° 27′	30.25	768.3	52	11.1	100	sse.	.....	.....	6	.....	9	.....	.....	.....	.....	.....	.....	d. clouds.
S. S. Lochee, N. 28° 37′, W. 42° 18′	30.15	765.8	69	20.6	82	se.	.....	.....	3	.....	6	.....	.....	.....	.....	.....	.....	showery.
Minho, N. 23° 49′, W. 19° 42′	30.17	766.3	70.8	21.6	78	ne.	.....	.....	3	.....	0	.....	.....	.....	.....	.....	.....	blue sky.
Queen of Cambria, N. 18° 33′, E. 86° 58′	29.93	760.2	81	27.2	74	ssw.	.....	.....	4	.....	1	.....	.....	.....	.....	.....	.....	blue sky.
CROMWELL LINE.																		
S. S. Hudson, N. 24° 50′, W. 84° 30′*†	30.20	767.1	71	21.7	.....	ese.	.....	.....	2	.....	1	.....	se.	0	0	mod.	ne.	fair.
S. S. New Orleans, N. 27° 27′, W. 87° 00′*†	30.28	769.1	70	21.1	.....	s.	.....	.....	.....	.....	2	.....	ne.	.....	.....	sm'h	.....	clear.
CUNARD LINE.																		
S. S. Gallia, N. 47° 07′, W. 37° 11′	29.84	757.9	50	10.0	?	ssw.	.....	.....	7	.....	10	.....	sw.	0	0	mod.	sw.	overcast.
S. S. Scythia, N. 39° 45′, W. 69° 53′†	30.09	764.3	34	1.1	90	e.	.....	.....	5	.....	10	.....	e.	0	0	mod.	e.	cloudy.
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. Canada, Havre, France	30.65	778.4	50.0	10.0	.....	nw.	.....	.....	1	.....	0	.....	.....	0	0	.....	.....	clear.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Bohemia, N. 42° 56′, W. 46° 45′ *†	30.18	766.6	.....	.....	.....	n.	.....	.....	6	.....	10	.....	n.	0	0	cross	ne.	stormy.
S. S. Lessing, Hamburg, Germany	.....	.....	55	12.8	.....	wsw.	.....	.....	5	.....	2	.....	w.	0	0	.....	.....	fair.
S. S. Silesia, N. 47° 23′, W. 31° 05′*†	30.27	768.8	55.6	13.1	.....	sse.	.....	.....	5	.....	5	.....	s.	0	0	4	s.	hazy.
S. S. Wieland, N. 46° 21′, W. 35° 10′	30.14	765.5	58	14.4	.....	s.	.....	.....	6	.....	8	.....	w.	0	0	5	sw.	
JOHNSTON LINE.																		
S. S. Thanemore, N. 53° 59′, W. 12° 20′	30.52	775.2	.....	.....	.....	sw.	.....	.....	6	.....	5	.....	sw.	0	0	slight	.....	fine.
MALLORY LINE.																		
S. S. Colorado, Key West, Fla.†	30.08	764.0	70	21.1	.....	se.	.....	.....	2	.....	1	.....	ne.	0	0	.....	.....	clear.
MERCHANTS' EXPRESS LINE.																		
S. S. Freja, N. 40° 23′, W. 57° 32′†	30.37	771.4	40	4.4	91	n.	.....	.....	5	.....	10	.....	n.	0	0	cross	n.	
S. S. Hermod, N. 48° 05′, W. 20° 30′*†	30.28	769.1	60.8	16.0	.....	ese.	.....	.....	1	.....	2	.....	ese.	0	0	long	nw.	fair.
NATIONAL LINE.																		
S. S. Erin, N. 41° 24′ W. 61° 42′	29.32	744.7	36	2.2	.....	w.	.....	.....	3	.....	2	.....	w.	0	0	sm'h	.....	fine.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Niagara, N. 23° 24′, W. 81° 41′*†	30.28	769.1	74	23.3	.....	e.	.....	.....	2	.....	3	.....	se.	0	0	mod.	ne.	clear.
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Amsterdam, N. 44° 19′ W. 44° 16′*†	29.96	761.0	54	12.2	.....	nnw.	.....	.....	5–6	.....	.....	.....	.....	.....	.....	.....	wnw.	snowy.
S. S. Alvona, St. John's, Virgin Islands, W. I*†	29.99	761.7	73	22.8	.....	calm	.....	.....	0	.....	.....	.....	.....	.....	.....	.....	.....	cloudy.
S. S. Mina N. 48° 30′ W. 24° 27′.*	30.33	770.4	50	10.0	.....	s.	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	nnw.	
S. S. Olbers, N. 20° 09′ W. 24° 00′*†	30.15	765.8	70	21.1	.....	ene.	.....	.....	4–5	.....	.....	.....	.....	.....	.....	.....	sm'h	fine.
NORTH GERMAN LLOYD.																		
S. S. Kronprinz F. Wilhelm, N 43° 09′, W. 54° 55′	30.27	768.8	26.6	— 3.0	.....	nnw.	.....	.....	2	.....	9	.....	nnw.	8 h'r	8 h'r	4–5	w.	cloudy.
S. S. Main, N. 44° 16′, W. 42° 32′*	29.83	757.7	50.0	10.0	.....	e.	.....	.....	3–5	.....	9	.....	ssw.	4 h'r	4 h'r	high	sw.	
S. S. Mosel, N. 42° 51′, W. 50° 28′	30.30	769.6	28.6	— 1.9	.....	nnw.	.....	.....	5	.....	9	.....	nnw.	2 h'r	2 h'r	mod.	nnw.	cloudy.
S. S. Nurnburg S. 10° 33′, W. 27° 49′*	29.99	761.7	82.4	28.0	69	se.	.....	.....	4	.....	6	.....	ese.	0	0	3	se.	fair.
S. S. Oder, New York, N. Y.	30.21	757.3	33.4	0.8	.....	ne.	.....	.....	4	.....	9	.....	ne.	snow	snow	.....	.....	snowing.
S. S. Ohio, Bremmerhaven, Germany	30.46	773.7	.....	.....	.....	wsw.	.....	.....	5	.....	2	.....	wnw.	0	0	.....	.....	clear.
S. S. Salier, N. 47° 05′, W. 40° 00′.*	29.86	758.4	45.5	7.5	.....	nw.	.....	.....	6	.....	10	.....	ne.	6 h'r	6 h'r	r'gh	ne.	cloudy.
S. S. Strassburg, N. 44° 20′, W. 44° 29′	29.80	756.9	41.0	5.0	96	nnw.	.....	.....	8	.....	10	.....	nnw.	6 h'r	6 h'r	r'gh	nnw.	cloudy.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Belgic, N. 30° 31′, E. 132° 26′ †	30.19	766.8	68	20.0	74	nw.	.....	.....	4	.....	0	.....	.....	0	0	light	nw.	clear.
S. S. Gaelic, N. 30° 56, E. 130° 45′†	30.14	765.5	68	20.0	56	wnw.	.....	.....	3	.....	1	.....	w.	.....	.....	sm'h	s.	clear.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, Savannah, Ga†	30.21	767.3	.....	.....	.....	calm	.....	.....	0	.....	10	.....	wnw.	rain	rain	.....	.....	rainy.
S. S. Seminole, Savannah, Ga†.	30.12	765.0	64	17.8	89	nw.	.....	.....	1	.....	2	.....	sw.	3 h'r	3 h'r	.....	.....	clear.
OREGON IMPROVEMENT COMPANY.																		
S. S. Mississippi, Seattle, W. T†	29.67	753.6	43	6.1	83	nw.	.....	.....	1	.....	8	.....	nw.	.....	.....	.....	.....	fair.
S. S. Willamette, Seattle, W. T†*	29.70	754.4	45	7.2	84	calm	.....	.....	0	.....	6	.....	wnw.	0	0	.....	.....	gloomy.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Columbia, N. 40° 47′ W. 124° 37′†	29.73	755.1	46	7.8	69	se.	.....	.....	4	.....	2	.....	se.	7 h'r	7 h'r	sm'h	se.	clear.
S. S. Oregon, San Francisco, Cal.†	29.83	757.7	45	7.2	92	se.	.....	.....	1	.....	8	.....	se.	.....	.....	.....	.....	raining.
PACIFIC COAST STE MSHIP COMPANY.																		
S. S. Ancon, N. 36° 20′ W. 121° 58′†	29.87	758.7	50	10.0	79	ssw.	.....	.....	5	.....	10	.....	sw.	.....	.....	r'gh	sw.	cloudy.
S. S. Idaho, Tacoma, Wash. Ter †	29.60	751.8	44	6.7	84	se.	.....	.....	1	.....	8	.....	se.	.....	.....	.....	.....	cloudy.
S. S. Orizaba, N. 34° 23′ W. 119° 43′†	30.03	762.7	57	13.9	81	sw.	.....	.....	4	.....	.....	.....	se.	0	0	light	sw.	clear.
S. S. State of California, Portland, Oregon†	29.59	751.6	40	4.4	100	nw.	.....	.....	3	.....	10	.....	sse.	0	0	.....	.....	cloudy.
S. S. Victoria, N. 44° 51′, W. 125° 00′†	29.63	752.5	46	7.8	100	nw.	.....	.....	4	.....	10	.....	.....	.....	.....	sm'h	.....	cloudy.
PACIFIC MAIL STEAM SHIP COMPANY.																		
S. S. Australia, Sydney, N. S. W	29.88	758.9	62	16.7	88	calm	.....	.....	0	.....	1	.....	sse.	0	0	.....	.....	clear.
S. S. City of New York, N. 28° 30′, W. 137° 10′.†	30.03	762.7	60	15.6	71	wnw.	.....	.....	5	.....	10	.....	.....	0	0	h'vy	wnw.	cloudy.
S. S. City of Pekin, N. 22° 54′ W. 109° 14′†	29.96	761.0	70	21.1	90	e.	.....	.....	2	.....	.....	.....	.....	0	0	sm'h	.....	hazy.
S. S. City of Rio de Janeiro, N. 11° 56′, W. 87° 50′†	30.11	764.8	79	26.1	78	ne.	.....	.....	4	.....	5	.....	nw.	0	0	mod.	ne.	fine.
S. S. City of Sydney, Sydney, N. S. W†	29.98	761.5	68	20.0	56	wsw.	.....	.....	3	.....	2	.....	sw.	0	0	sm'h	.....	clear.
S. S. City of Tokio, N. 35° 09′, E. 178° 14′†	30.13	765.3	55	12.8	68	n.	.....	.....	6	.....	2	.....	ne.	1 h'r	1 h'r	mod.	n.	clear.
S. S. Colima, N. 24° 29′ W. 111° 54′†	29.93	760.2	64	17.8	73	wnw.	.....	.....	4	.....	9	.....	nw.	0	0	mod.	con.	cloudy.
S. S. Colon, Aspinwall, Panama†	30.00	762.0	80	26.7	.....	nne.	.....	.....	3	.....	2	.....	ne.	.....	.....	.....	.....	clear.
S. S. South Carolina, Panama, Panama..†	30.05	763.3	79	26.1	66	nnw.	.....	.....	3	.....	0	.....	.....	0	0	mod.	ne.	fine.
S. S. Zelandia, N. 27° 01′, W. 148° 08′†	30.13	765.3	63	17.2	89	ese.	.....	.....	4	.....	5?	.....	ese.	.....	.....	r'gh	nw.	cloudy.?
QUEBEC STEAM S IP COMPANY.																		
S. S. Muriel, N. 33° 35′, W. 69° 55′	.....	.....	.....	.....	.....	ssw.	.....	.....	3	.....	10	.....	.....	0	0	r'gh	n.	squally.
S. S. Bermuda, N. 26° 10′, W. 67° 55′†	30.28	769.1	64	17.8	.....	nne.	.....	.....	4	.....	9	.....	ne.	½ h'r	½ h'r	long	nne.	cloudy.
RED STAR LINE.																		
S. S. Nederland, N. 42° 36′, W. 46° 04′*†	30.60	777.2	42	5.6	.....	nnw.	.....	.....	4	.....	10	.....	nnw.	6 h'r	6 h'r	long	ene.	covered.
S. S. Rhynland, N. 40° 28′ W. 56° 49′	30.35	770.9	36	2.2	70	nnw.	.....	.....	6	.....	10	.....	nnw.	0.02	0.5	long	nw.	cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
RED STAR LINE —Continued.																		
S. S. Vaderland, N. 48° 04′, W. 25° 23′	30.24	768.1	55	12.8	.....	sse.	.....	.....	2	.....	8	.....	ssw.	0	0	long	w.	cloudy.
S. S. Waesland, N. 50° 21′ W. 1° 42′	30.67	779.0	50	10.0	.....	calm	.....	.....	0	.....	0	.....	.....	0	0	sm'h	.....	clear.
ROTTERDAM LINE.																		
S. S. W A. Scholten, Rotterdam, Holland*	30.22	767.6	65.0	18.3	89	sw.	.....	.....	4	.....	2	.....	sw.	0	0	.....	.....	
THINGVALLA LINE.																		
S. S. Thingvalla, N. 59° 00′, W. 8° 10′†	30.18	766.6	50.9	10.5	.....	sw.	.....	.....	3	.....	10	.....	sw.	0	0	hv'y	sw.	covered.
WHITE STAR LINE.																		
S. S. Celtic, N. 43° 24′, W. 46° 40′*†	29.74	755.4	32	0.0	79	n.	.....	.....	5	.....	10	.....	n.	10 h'r	light	mod.	n.	cloudy.
S. S. Germanic, N. 44° 54′, W 38° 21′*†	30.07	763.8	58	14.4	.....	ssw.	.....	.....	5	.....	1	.....	s.	sh'rs	sh'rs	r'gh	sw.	d. clouds.
WILSON LINE.																		
S. S. Romano, N. 45° 47′, W. 31° 04′*†	30.24	768.1	56	13.3	.....	sse.	.....	.....	3	.....	4	.....	sse.	0	0	mod.	w.	cloudy.
S. S. Salerno, New York, N. Y†	30.19	766.8	.....	.....	.....	ne.	.....	.....	4	.....	10	.....	nne.	.....	.....	.....	.....	cloudy.
WINSOR LINE.																		
S. S, Catherine Whiting, Off Barnegat, N. J.†	30.52	775.2	.....	.....	.....	ne.	.....	.....	4	.....	.....	.....	.....	.....	.....	mod.	ese.	heavy snow.
MISCELLANEOUS.																		
Schr. Addie Fuller, Cedar Keys, Florida†	30.28	769.1	67	19.4	87	w.	.....	.....	3	0	3 s	.....	.....	0	0	.....	.....	fair.
Bk. Adelaide, S. 16° 42′, W. 37° 39′*†	30.08	764.0	80	26.7	.....	e.	.....	.....	6	.....	8	.....	ese.	.....	.....	mod.	ese.	heavy rain.
Schr. Annie M. Law, N. 39° 45′ W. 69° 00′*†	30.20	767.1	41	5.0	65	e.	.....	.....	4	.....	8	.....	sw.	3 h'r	sleet	sm'h	.....	threatening.
Schr Annie M. Smull, S. 10° 46′. W. 34° 30′*†	30.00	762.0	84	28.9	.....	ese..	.....	.....	.....	.....	1	.....	ese.	1 h'r	1 h'r	.....	se.	clear.
Bk. Bergenaeren, N. 35° 16′, W. 36° 08′†	30.17	766.3	.....	.....	.....	calm	.....	.....	0	.....	.....	.....	s.	0	0	2	e.	clear.
Bk. Celestina, N. 23° 24′ W. 37° 03′*†	30.15	765.8	.....	.....	.....	se.	.....	.....	2	.....	0	.....	.....	0	0	sm'h	nw.	fair.
Bk. E. L. Pettingill, S. 28° 01′ W. 90° 03′†	30.20	767.1	.....	.....	.....	e.	.....	.....	3	.....	2	.....	ese.	0	0	sm'h	.....	clear.
S. Enoch Train, Bremerhaven, Germany*	30.37	771.4	.....	.....	.....	w.	.....	.....	4	.....	0	.....	.....	0	0	.....	.....	clear.
U.S. F.C.S. Fish Hawk, Annapolis, Md†	30.17	766.3	35	1.7	100	ne.	.....	.....	4	.....	10	.....	ne.	0.28	7.1	...	.....	rain & snow
Bk. Freya, Baltimore, Md.	.....	.....	36	2.2	.....	ne.	.....	.....	1	.....	10	.....	n.	2 h'r	snow	.....	.....	hazy.
S. Grecian, N. 4° 10′, W. 26° 40′*†	30.03	762.7	82	27.8	.....	e.	.....	.....	2	.....	9	.....	e.	light	light	sm'h	ne.	cloudy.
Bk. Geo. Booth, S. 35° 30′, W. 3° 38′*†	30.10	764.5	.....	.....	.....	sw.	.....	.....	3	.....	8	.....	.....	0	0	short	sw.	fine.
Bk. Granville, S. 11° 30′, W. 33° 35′*†	30.18	766.6	.....	.....	.....	ese.	.....	.....	1	.....	.....	.....	se.	0	0	sm'h	.....	clear.
S. Hedwig, N. 53° 43′, E. 8° 15′	30.43	772.9	53.6	12.0	67	wsw.	.....	.....	6	.....	2	.....	w.	0	0	.....	.....	fine.
Schr. Henry Denison, Georgetown, Brit. Guiana.†	29.96	761.0	.....	.....	.....	ene.	.....	.....	4	.....	3	.....	ne.	sh'rs	shr's	.....	.....	fair.
Bk. Johanne Auguste, S 10° 15′. E. 87° 50′*†	29.78	756.4	.....	.....	.....	ene.	.....	.....	2	.....	4	.....	se.	2 h'r	h'vy	sm'h	.....	squally.
Bkt. Josephine, N. 35° 42′, W. 69° 15′*†	30.26	768.6	55	12.8	74	se.	.....	.....	5	.....	5	.....	.....	0	0	sm'h	.....	gloomy.
Bk. Kate Cann, N. 49° 08′, W. 16° 28′	.....	.....	.....	.....	.....	se.	.....	.....	3	.....	5	.....	sw.	0	0	long	wnw.	fine.
Bkt. Kryolith, N. 41° 55′, W. 24° 25′*†	30.38	771.6	.....	.....	.....	se.	.....	.....	1	.....	8	.....	s.	0	0	sm'h	.....	cloudy.
S. S. Lamperts, N. 49° 38′, W. 10° 39′*	30.59	777.0	54.5	12.5	80	e.	.....	.....	3	.....	6	.....	.....	.....	.....	sm'h	.....	d. clouds.
Schr. Maggie Abbott, Baracoa, Cuba, W. I.*†	30.08	704.0	.....	.....	.....	ne	.....	.....	4	.....	.....	.....	ne.	0	0	.....	.....	cloudy.
S. S. Malabar, N. 43° 28′, W. 22° 40′*†	30.52	775.2	.....	.....	.....	sse.	.....	.....	2	.....	.....	.....	.....	0	0	sm'h	.....	cloudy.
Bk. Peppina, N. 38° 13′, E. 7° 21′†	30.33	770.4	62	16.7	88	w.	.....	.....	3	.....	0	.....	.....	.....	.....	sm'h	.....	clear.
Bk. Pilgrim, S. 46° 50′, E. 70° 00′*†	30.20	767.1	.....	.....	.....	nw.	.....	.....	3	.....	0	.....	.....	0	0	long	w.	clear.
Bkt. Spotless, N. 33° 59′, W. 54° 43′*†	30.10	764.5	.....	.....	.....	nne.	.....	.....	.....	.....	.....	.....	nne.	.....	.....	mod.	n.	fine.
Bk. Stella, S. 49° 15′, W. 61° 30′*	29.49	749.0	40.6	4.8	92	nw.	.....	.....	3	.....	8	.....	w.	0	0	sm'h	.....	squally.
Bk. Sunbeam, N. 32° 23′, W. 73° 22′*†	30.01	762.2	59	15.0	76	sw.	.....	.....	6	.....	10	.....	wnw.	0	0	r'gh	wsw.	cloudy.
Bg. Wauburn, S. 15° 55′ W. 5° 42′*†	30.10	764.5	.....	.....	.....	se.	.....	.....	4	.....	.....	.....	.....	.....	.....	sm'h	.....	
S. Wm. Woodbury, Bremerhaven, Germany*†	30.21	767.3	54	12.2	43	w.	.....	.....	4	.....	1	.....	w.	.....	.....	.....	.....	

Date, as appearing in the International Bulletin of similar date.

Isobars in *black* exhibit atmospheric pressure at sea-level, and are charted from data as reported by the several observers.

Isotherms in *red* exhibit temperature of air, similarly charted.

Broken or dotted lines indicate that the lines so broken are doubtful.

Arrows, when charted, fly with the wind and exhibit wind-direction and force.

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W. B. Hazen

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

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INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON MARCH 17, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours	.....	.....	30.10	764.4	67.3	19.6	83	w.	.....	.....	2	.....	0	.....	.....	0	0	clear	Moiroud.
Algiers	.....	.....	30.11	764.9	61.2	16.2	65	nw.	.....	.....	1	.....	0	.....	.....	0	0	clear	Nicolas.
La Calle	.....	.....	30.14	765.5	61.5	16.4	75	sw.	.....	.....	4	.....	1	.....	.....	0	0	very fair	Fonfréde.
Tunis	.....	.....	30.16	766.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.18	766.6	66.2	19.0	51	e.	.....	.....	1	.....	2	.....	.....	Imap.	Imap.	fair	Dumas.
Tebessa	.....	.....	30.24	768 2	62.6	17.0	38	nw.	.....	.....	1	.....	0	.....	.....	0	0	clear	Derché.
Geriville	.....	.....	.....	.....	60.1	15.6	11	ssw.	.....	.....	3	.....	5	.....	.....	0.031	0.8	cloudy	Louchamp.
Laghouat	.....	.....	30.27	768.8	64.4	18.0	28	se.	.....	.....	1	.....	0	.....	.....	0	0	clear	Herblin.
Biskra	.....	.....	30.24	768.1	76.6	24.8	28	sw.	.....	.....	1	.....	0	.....	.....	0	0	clear	Malau.
Australian.																			
Melbourne, Victoria	29.88	758.9	29.97	761.2	60.5	15.8	74	w.	6	2.7	.....	.....	4	.....	.....	0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.80	757.0	30.35	770.8	68.4	20.2	22	sw.	.....	.....	3	.....	0	.....	.....	0	0	.....	Prof. Ivan Stozir
Orncow, I. R Observatory	29.41	746.9	30.17	766.4	56.8	13.8	51	wnw.	19.2	8.6	.....	.....	7	.....	.....	0	0	.....	Dr. Wierzbiski.
Eperies	29.24	742.8	30.11	764.9	59.9	15.5	46	nw.	.....	.....	4	cs	5 8	.....	se.	0	0	.....	Julius Mikolik.
Gratz	29.11	739.3	30.33	770.4	70.5	21.4	20	nw.	.....	.....	4	.....	0	.....	.....	0	0	.....	Andreas Rospini.
Hermannstadt	28.65	727.8	30.08	763.9	59.7	15.4	29	nw.	.....	.....	5	.....	2	.....	.....	0	0	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	29.09	738.8	30.43	773.0	58.6	14.8	45	nnw.	.....	.....	2	.....	0	.....	.....	0	0	clear	The Staff.
Lemberg	29.00	736.5	29.99	761.8	48.6	9.2	66	nw.	.....	.....	4	.....	9	.....	.....	Imap.	Imap.	.....	Dr. T. Stanecki.
Pola	30.28	769.0	30.39	771.8	64.0	17.8	69	wnw.	.....	.....	1	.....	0	.....	.....	0	0	.....	I. R. Hydrographic Office.
Szathmar	29.63	752.6	30.10	764.4	61.2	16.2	39	nw.	.....	.....	3	.....	2	.....	.....	0	0	.....	Joseph Midlinszky, S. J.
Szegedin	29.96	761.0	30.24	768.0	63.3	17.4	61	nw.	.....	.....	5	.....	3	.....	.....	0	0	.....	Karl Stancel.
Trieste	30.31	769.8	30.41	772.4	62.2	16.8	53	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	Rieder.
Vienna	29.65	753.0	30.35	771.0	66.9	19.4	27	w.	.....	.....	4	.....	0	.....	.....	0	0	.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	30.31	769.9	30.41	772.4	49.4	9.7	61	se.	10	4.5	.....	.....	0	.....	.....	0	0	blue sky	W. Boswell.
Armagh, Observatory	30.27	768.8	30.51	774.9	48.0	8.9	77	s.	10	4.5	.....	.....	10	.....	.....	.....	.....	overcast	S. Call.
Bidston, Liverpool Obs'y	.....	.....	30.54	775.7	50.8	10.4	73	wnw.	4	1.8	.....	.....	1	.....	.....	.....	.....	blue sky	John Hartnup.
Bolton, Sharples	29.99	761.7	30.54	775.7	49.7	9.8	74	wnw.	.....	.....	.....	.....	4	.....	.....	.....	.....	d. clouds	Thomas Mackereth.
Bradford, Yorkshire	30.11	764.8	30.51	774.9	49.7	9.8	72	w.	.....	.....	4	.....	2	.....	.....	0	0	blue sky	J. McLandsborough, F. R. A. S.
Bridgetown, Barbadoes	29.98	761.5	30.01	762.2	82.0	27.8	67	ne.	.....	.....	2	.....	3	.....	.....	.....	.....	d. clouds	Pvt. J. Surgenor, A. H. C.
Cardington	.....	.....	30.52	775.2	55.4	13.0	64	w.	.....	.....	0.4	.....	0	.....	.....	.....	.....	blue sky	John McLaren.
Chatham, School M. E	30.42	772 7	30.55	776.0	61.0	16.1	84	calm	.....	.....	0	.....	0	.....	.....	.....	.....	misty	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	30.34	770.6	30.57	776.5	52.5	11.4	83	se.	.....	.....	1	.....	0	.....	.....	.....	.....	foggy	The Staff.
Fort Napier, Natal	27.66	702.6	29.88	758.9	80.0	26.7	33	se.	.....	.....	1	.....	0	.....	.....	.....	.....	blue sky	Pvt. E. K. Annis, A. H. C.
Free Town, Sierra Leone	29.58	751.3	29.81	757.2	89.0	31.7	63	w.	.....	.....	1	.....	3	.....	.....	.....	.....	d. clouds	Sergt. John Robinson.
Galway, Queen's College	.....	.....	30.40	772.1	.....	.....	.....	s.	.....	.....	1	.....	4	.....	.....	.....	.....	blue sky	J. O'Donaghue.
Gibraltar, Mediterranean	30.27	768.8	30.33	770.4	62.4	16.9	75	e.	.....	.....	3	.....	5	.....	.....	.....	.....	d. clouds	Opl. C. Baldwin.
Glasgow, Observatory	30.28	769.1	30.48	774.2	48.0	8.9	65	wsw.	.....	.....	3	.....	9 k	.....	.....	.....	.....	d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	30.38	771.6	30.56	776.2	57.5	14.2	97	n.	.....	.....	1	.....	0	.....	.....	.....	.....	foggy	The Staff.
Guernsey	30.26	768.6	30.57	776.5	56.0	13.3	92	e.	.....	.....	1	.....	0	.....	.....	.....	.....	blue sky	A. Collenette, F. M. S.
Kew, Observatory	30.53	775.4	30.57	776.5	54.8	12.7	95	w.	4	1.8	.....	.....	0	.....	.....	.....	.....	blue sky	The Staff.
Leicester, Museum	30.24	768.1	30.51	774.9	48.8	9.3	62	w.	.....	.....	1	.....	10	.....	.....	.....	.....	d. clouds	J. C. Smith.
Malta, Mediterranean	30.26	768.6	30.34	770.6	65.2	18.4	68	nw.	.....	.....	2	.....	0	.....	.....	.....	.....	blue sky	I. H. Whysall.
Nassau, Bahamas	30.12	765.0	30.17	766.3	74.0	23.3	76	nw.	.....	.....	3	.....	4	.....	.....	.....	.....	d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	30.03	762.7	30.57	776.5	49.2	9.6	83	nw.	.....	.....	1	.....	3	.....	.....	.....	.....	misty	John Mac Email.
Oxford, Radcliffe Obs'y	30.33	770.4	30.56	776.2	56.0	13.3	62	calm	.....	.....	0	.....	0	.....	.....	.....	.....	misty	The Staff.
Plymouth	30.49	774.4	30.56	776.2	55.0	12.8	68	se.	.....	.....	1	.....	0	.....	.....	.....	.....	blue sky	John Merrifield.
Sandwick Manse, Orkneys	.....	.....	30.34	770.6	47.6	8.7	89	sw.	18	8.0	.....	.....	10	.....	.....	.....	.....	misty	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.99	761.7	30.06	763.5	54.8	12.7	68	sw.	.....	.....	2	.....	4	.....	.....	.....	.....	d. clouds	W. H. Lyne.
Sheffield	30.24	768.1	30.52	775.2	53.8	12.1	73	e.	.....	.....	1	.....	3	.....	.....	0	0	misty	W. F. Cooper.
Silloth Rectory	30.49	774.4	30.52	775.2	46.4	8.0	82	w.	.....	.....	3	.....	10	.....	.....	0	0	overcast	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	30.55	776.0	48.1	8.9	74	w.	8	3.6	.....	.....	6	.....	.....	.....	.....	d. clouds	R. S. J. Perry.
Stratfield Turgiss	30.34	770.6	30.56	776.2	60.6	15.9	55	w.	.....	.....	1	.....	0	.....	.....	.....	.....	blue sky	Rev. C. H. Griffiths, F. M. S.
Truro, Royal Institution	30.49	774.4	30.53	775.4	60	15.0	70	s.	.....	.....	4	.....	0	.....	.....	.....	.....	blue sky	W. Newcombe.
Valencia, Observatory	30.42	772.7	30.44	773.2	52.0	11.1	79	se.	30	13.4	.....	.....	8	.....	.....	.....	.....	d. clouds	The Met'g'l Office.
Canadian.																			
Bathurst, N. B	.....	.....	.....	.....	22.0	— 5.6	.....	calm	0	0	.....	0	0	.....	.....	0	0	clear	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.37	771.4	30.41	772.4	20	— 6.7	87	s.	1	0.4	.....	10 s	.....	w.	.....	0	0	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	30.41	772.4	30.47	773.9	21	— 6.1	76	nw.	15	6.7	.....	2 ck	0	nw.	.....	0	0	fair	G. A. Blair.
Cornwall, Ontario	30.29	769.4	30.50	774.7	12.9	—10.6	83	e.	.....	.....	1	0	0	.....	.....	.....	.....	.....	James Smith, M. A.
Dalhousie, N. B	30.30	769.6	30.58	776.7	16.0	— 8.9	.....	w.	.....	.....	2	0	0	.....	.....	0	0	clear	H. A. Johnson.
Father Point, Quebec*	30.61	777.5	30.63	778.0	9	—12.8	91	nne.	15	6.7	.....	0	0	.....	.....	0	0	clear	J. McWilliams.
Fort Garry, Manitoba*	28.89	733.8	29.73	755.1	33	0.6	100	se.	19	8.5	.....	.....	10 n	.....	.....	Imap.	Imap.	cloudy	James Stewart.
Fredericton, N. B	30.40	772.1	30.48	774.2	10.1	—12.2	98	se.	1	0.4	.....	0	0	.....	.....	0	0	clear	Prof. Harrison.
Granton, Ontario	29.25	742.9	30.44	773.2	20.3	— 6.5	96	calm	.....	.....	0	0	0	.....	.....	0	0	clear	James Grant.
Halifax, N. S*	30.28	769.1	30.41	772.4	25	— 3.9	100	n.	5	2.2	.....	.....	10 n	.....	.....	0.03	0.8	light snow	A. Allison.
Hamilton, Ontario	30.02	762.5	30.44	773.2	25.7	— 3.5	88	ne.	.....	.....	1	0	0	.....	.....	0	0	clear	Geo. Dickson, B. A.
Kingston, Ontario*	30.13	765.3	30.50	774.7	19	— 7.2	70	ne.	9	4.0	.....	0	0	.....	.....	0	0	clear	A. P. Knight, M. A.
Little Glace Bay, N. S	30.44	773 2	30.48	774.2	20.0	— 6.7	92	sw.	.....	.....	3	.....	8 ks	.....	sw.	0	0	cloudy	C. H. Rigby.
Montreal, Quebec*	30.32	770.1	30.54	775.7	15	— 9.4	64	ne.	20	8.9	.....	0	0	.....	.....	0	0	clear	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.74	755.4	30.49	774.4	21	— 6.1	80	e.	12	5.4	.....	0	0	.....	.....	0	0	clear	Rev. R. Mosley.
Peterboro, Ontario	29.71	754.6	30.52	775.2	22.4	— 5.3	86	ne.	.....	.....	2	0	0	.....	.....	0	0	clear	J. Dixon, B. A.
Port Dover, Ontario	29.69	754.1	30.43	772.9	23	— 5.0	80	ne.	6	2.7	.....	0	0	.....	.....	Imap.	Imap.	clear	H. Morgan.
Port Stanley, Ontario	29.71	754.6	30.40	772.1	23	— 5.0	96	e.	8	3.6	.....	0	0	.....	.....	0	0	clear	M. Payne.
Quebec, Quebec*	30.22	767.6	30.57	776.5	15	— 9.4	83	ne.	.....	.....	1	0	2 8	.....	ne.	0	0	clear	Capt. Ashe, R. N.
Rockliffe, Ontario*	30.08	764.0	30.60	777.2	2	—16.7	87	calm	0	0	.....	0	0	.....	.....	0	0	clear	W. H. McIntyre.
Saugeen, Ontario*	29.66	753.4	30.43	772.9	19	— 7.2	91	se.	3	1.3	.....	0	0	.....	.....	0	0	clear	
St. Andrews, N. B	30.34	770.6	30.39	771.9	23	— 5.0	87	n.	1	0.4	.....	0	0	.....	.....	0	0	clear	
St. John, N. B	30.24	768.1	30.42	772.7	26.0	— 3.3	87	ne.	3	1.3	.....	0	0	.....	.....	0	0	clear	G. Murdock, C. E.
St. Pierre, N. F	.....	.....	30.39	771.9	15.8	— 9.0	.....	nw.	.....	.....	1	.....	.....	.....	.....	0	0	.....	N. F. Land, Com't.
Stratford, Ontario	29.02	737.1	30.40	772.1	21.0	— 6.1	96	calm	0	0	.....	1 cs	0	.....	.....	0	0	clear	C. I. Macgregor, M. A.
Sydney, C. B*	30.42	772.7	30.49	774.4	6	—14.4	100	calm	0	0	.....	5 ck	0	w.	.....	0	0	fair	T. C. Hill, C. E.
Toronto, Ontario*	30.07	763.8	30.47	773.9	26	— 3.3	76	ne.	10	4.5	.....	0	0	.....	.....	0	0	clear	Magnetic Observatory.
Windsor, N. S	30.30	769.6	30.40	772.1	25.5	— 3.6	94	n.	1	0.4	.....	.....	10 n	.....	.....	0.03	0.8	snowing	Prof. W. R. Butler.
Woodstock, Ontario	29.27	743.4	30.42	772.7	18.1	— 7.7	70	ne.	2	0.9	.....	0	2 ks	.....	.....	0	0	fair	Prof. Wolverton
Yarmouth, N. S*	30.26	768.6	30.33	770.4	28	— 2.2	80	ne.	4	1.8	.....	.....	10 n	.....	.....	0.02	0.5	light snow	Lt. F. E. Wilmot, R. N.
Sub-series.																			
St. Johns, Newfoundland	30.37	771.4	30.64	778.2	17	— 8.3	.....	sw.	2	0.9	.....	0	0	.....	.....	0	0	.....	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	29.97	761.2	30.00	762.0	67.5	19.7	81	w.	17.5	7.8	.....	0	2 s	.....	.....	0.050	1.3	hazy	John Duthie.
Cape Town, C. G. H. Obs'y	30.01	762.2	30.05	763.3	77.0	25.0	59	nw.	14	6.3	.....	0	4	.....	.....	0	0	.....	The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
CHINESE (*Sub-series*).																			
Hankow	29.80	756.9	30.07	763.8	69.3	20.7	67	sw.	.....	.....	2	.....	10	.....	.....	0	0	.....	N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.98	761.5	30.00	762.1	54.5	12.5	78	ese.	6.9	3.1	.....	.....	2	.....	.....	0	0	fair	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	30.24	768.2	30.29	769.4	48.7	9.3	61	nw.	26.8	12	.....	.....	5	.....	.....	.....	.....	.....	Oversergent Fischer.
Fanöe	30.44	773.1	30.46	773.6	46.9	8.3	88	wnw.	.....	.....	4	.....	2	.....	.....	.....	.....	.....	Overlooerer Lauridsen.
Godthaab, Greenland	30.12	765.1	30.17	766.2	0.3	—17.6	100	nw.	.....	.....	2	.....	10	.....	.....	.....	.....	.....	S. Kleinschmidt.
Stykkisholm, Iceland	29.54	750.3	29.58	751.4	32.0	0.0	89	s.	.....	.....	7	.....	10	.....	.....	.....	.....	snowing	A. O. Thorlacius.
Thorshavn	30.16	766.0	30.19	766.9	43.0	6.1	78	se.	8.9	4	.....	.....	10	.....	.....	.....	.....	.....	Overlooerer Bergh.
Westervig	30.27	768.8	30.36	771.1	44.2	6.8	77	nw.	.....	.....	4	.....	1	.....	.....	.....	.....	.....	Loearer Oesterbol.
FRENCH.																			
Agen, Normal School	29.78	756.4	30.43	772.8	65.8	18.8	59	calm	.....	.....	0	.....	.....	.....	.....	0	0	.....	M. Labroue, Director.
Alençon, Normal School	29.99	761.8	30.54	775.8	59.9	15.5	55	ne.	.....	.....	2	.....	.....	.....	.....	0	0	.....	M. Nicot, Director.
Arras, Engineer School	30.27	768.8	30.53	775.4	60.6	15.9	73	ne.	.....	.....	.....	.....	.....	.....	.....	0	0	.....	M. Klein, Commandant.
Avignon, Normal School	30.35	771.0	30.43	773.0	73.4	23	37	n.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.93	760.2	30.49	774.4	61.7	16.5	45	e.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Sallard, Director.
Beauvais, Normal School	30.30	769.6	30.57	776.5	54.9	12.7	61	e.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Frère Eugène Mari.
Besançon, Normal School	29.70	754.3	30.60	777.3	60.8	16	59	ne.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Gobin, Director.
Bordeaux, Observatory	30.16	766.1	30.42	772.7	65.5	18.6	53	ssw.	.....	.....	1	.....	0	.....	.....	0	0	hazy	M. Rayet, Director.
Bourges, Normal School	29.95	760.7	30.50	774.6	68.0	20	32	.....	.....	.....	.....	.....	0	.....	.....	0	0	clear	M. Postel, Director.
Brest, Naval Observatory	30.28	769.1	30.52	775.3	55.0	12.8	81	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	M. de Kermaree, Dir.
Caen, Normal School	30.46	773.6	30.53	775.5	59.4	15.2	56	e.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	30.15	765.9	30.48	774.2	62.1	16.7	58	n.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Judot, Director.
Charleville, Normal School	30.02	762.6	30.54	775.7	63.3	17.4	52	ssw.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Grimard, Director.
Clermont-Ferrand Obs'y	29.07	738.4	30.41	772.4	67.5	19.7	40	ne.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Allnard, Director.
Cluny, Normal School	29.62	752.3	30.48	774.2	60.1	15.6	41	n.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. de Villemontée, Dir.
Commercy, Normal School	29.67	753.6	30.56	776.2	58.5	14.7	54	ne.	.....	.....	1	.....	0	.....	.....	0	0	clear	Dr. Coulet, Director.
Gap, Normal School	27.84	707.0	30.31	769.9	71.6	22	10	s.	.....	.....	3	.....	.....	.....	.....	0	0	.....	M. Jeangirard, Director.
Gréasque, dn. Rhone	29.27	743.4	30.39	771.8	73.6	23.1	25	sw.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Kina, Director.
Grenoble, Normal School	29.66	753.4	30.43	772.8	66.9	19.4	49	ene.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Ablard, Director.
Guéret, Normal School	28.86	733.0	30.42	772.7	64.0	17.8	29	e.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Rivoire, Director.
Lamballe, Normal School	30.26	768.6	30.53	775.5	60.8	16	58	nne.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Ollitrault, Director.
Lescar, Normal School	29.88	758.9	30.44	773.2	68.4	20.2	65	n.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	30.46	773.6	30.56	776.2	63.5	17.5	55	ene.	.....	.....	1	.....	0	.....	.....	0	0	clear	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.41	747.0	30.47	774.0	60.4	15.8	48	ene.	.....	.....	1	.....	0	.....	.....	0	0	hazy	M. André, Director.
Mans, Normal School	30.25	768.3	30.56	776.3	58.8	14.9	53	ne.	.....	.....	3	.....	0	.....	.....	0	0	clear	M. Piboen, Director.
Marseille, Observatory	30.15	765.8	30.42	772.6	66.2	19.0	51	nw.	.....	.....	1	.....	0	.....	.....	0	0	.....	M. Stephan, Director.
Montlouis l'Instituteur	25.20	640.0	30.04	763.0	55.4	13.0	35	s.	3.8	1.7	.....	.....	0	.....	.....	0	0	.....	M. Cave, for Dr. Fines.
Montpellier, Normal School	30.29	769.3	30.42	772.6	72.3	22.4	53	ene.	.....	.....	2	.....	0	.....	.....	0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.75	755.7	30.54	775.7	60.4	15.8	41	nw.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Hasse, Director
Nantes, Observatory	30.37	771.3	30.53	775.4	62.6	17	56	nne.	.....	.....	1–2	.....	0	.....	.....	0	0	.....	M. Larocque, Director.
Perpignan, Observatory	30.33	770.3	30.44	773.1	70.2	21.2	31	se.	7.4	3.3	.....	.....	0	.....	.....	0	0	.....	Dr. Fines, Director.
Pic-du-Midi, Summit	21.56	547.7	.....	.....	37.4	3.0	.....	s.	.....	.....	1	.....	1	.....	W.	0	0	clear	Gen'l de Nansouty, Dir.
Privas, Normal School	29.45	748.0	30.51	774.9	66.9	19.4	43	s.	.....	.....	1	.....	.....	.....	.....	0	0	.....	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.55	648.9	.....	.....	47.7	8.7	34	e.	.....	.....	2	.....	0	.....	.....	0	0	clear	M. Allnard, Director.
Rochefort, Naval Obs'y	30.45	773.3	30.48	774.1	65.5	18.6	92	ne.	.....	.....	1	.....	0	.....	.....	0	0	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	30.24	768.1	30.46	773.6	63.3	17.4	57	ese.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Moullot, Director.
Rodez, Normal School	28.29	718.6	30.42	772.6	63.5	17.5	49	nw.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Serger, Director.
Rouen, Normal School	30.52	775.2	30.57	776.4	60.4	15.8	61	ene.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Platrier, Director.
Saint Maur, Observatory	30.37	771.4	30.54	775.6	60.8	16.0	50	n.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Renou, Director.
Toulouse, Observatory	29.76	755.8	30.49	774.4	67.1	19.5	35	nw.	.....	.....	1	.....	1	.....	W.	0	0	clear	M. Ballland, Director.
Versailles, Observatory	30.04	762.9	30.53	775.4	59.0	15.0	42	ne.	.....	.....	1	.....	.....	.....	.....	0	0	.....	Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	30.26	768.7	30.56	776.1	59.0	15.0	47	ne.	.....	.....	1	.....	0	.....	.....	0	0	.....	M. Marié Davy, Director
GERMAN.																			
Bamberg	29.68	753.8	30.55	775.9	57.2	14.0	46	wnw.	.....	.....	2	0	0	.....	.....	0	0	.....	Prof. Dr. Hoh.
Berlin	30.17	766.3	30.35	770.8	57.6	14.2	43	nw.	.....	.....	4	.....	0	.....	.....	0	0	.....	Prof. Dr. Arndt.
Breslau	29.74	755.5	30.28	769.1	56.5	13.6	48	wnw.	.....	.....	7	.....	4	wnw.	.....	0	0	.....	Royal University Obs'y.
Carlsruhe	30.07	763.8	30.52	775.2	58.6	14.8	49	e.	.....	.....	1	.....	0	.....	.....	0	0	.....	Albert Senz.
Cassel	29.73	755.1	30.44	773.2	60.3	15.7	41	nw.	.....	.....	2	.....	0	.....	.....	0	0	.....	Dr. H. Möhl.
Frankfort on the Main	30.15	765.8	30.52	775.2	58.3	14.6	52	se.	.....	.....	1	.....	1	.....	.....	0	0	.....	Physical Society.
Friedrichshafen	29.03	737.3	30.50	774.6	50.2	10.1	74	ssw.	.....	.....	2	.....	0	.....	.....	0	0	.....	Wilhelm, Chief Tel.
Hamburg	30.37	771.4	30.47	773.8	54.1	12.3	72	wnw.	.....	.....	4	.....	0	.....	.....	0	0	.....	E. Preller.
Kiel	30.37	771.4	30.39	771.8	51.6	10.9	54	wnw.	.....	.....	0	.....	1	.....	.....	0	0	.....	Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	30.02	762.6	30.45	773.3	58.5	14.7	43	nw.	.....	.....	2	.....	0	.....	.....	0	0	.....	H. Leppig, Asst.
Magdeburg	30.26	768.5	30.45	773.4	58 5	14.7	52	nw.	.....	.....	3	0	1 k	.....	nw.	0	0	.....	Dr. Assmann.
Memel	30.00	762.0	30.05	763.2	39.0	3.9	67	nnw.	.....	.....	5	0	4 k	.....	.....	.....	.....	.....	Issermann.
Munich	28.65	727.7	30.54	775.8	58.3	14.6	32	n.	.....	.....	1	.....	0	.....	.....	0	0	.....	Central Station.
Neufahrwasser	30.13	765.3	30.15	765.7	41.4	5.2	77	nnw.	.....	.....	2	.....	10	.....	.....	0	0	.....	A. Lothes.
Neustadt, Palatinate	29.99	761.7	30.52	775.3	58.8	14.9	57	calm	.....	.....	0	.....	c	.....	.....	0	0	.....	Dickmether.
Stuttgart	29.55	750.5	30.44	773.2	60.8	16.0	34	e.	.....	.....	1	.....	0	.....	.....	0	0	.....	Prof. Dr. Schoder.
Wustrow	30.33	770.4	30.35	771.0	46.2	7.9	79	wsw.	.....	.....	4	0	8 s	.....	.....	0	0	.....	Profs. Brandes & Reimer.
GREEK.																			
Athens	29.78	756 4	30.17	766.3	66.4	19.1	.....	nw.	.....	.....	2.0	.....	1	.....	.....	0	0	misty	Schmidt & Wourlisch.
INDIAN.																			
Bellary	28.37	720.6	.....	.....	94.6	34.8	11	se.	3.5	1.6	.....	0	0	.....	.....	0	0	blue sky	
Kurrachee	29.98	761.5	30.03	762.8	76.8	24.9	75	wsw.	21	9.4	.....	.....	9	w.	.....	0	0	gloomy	
Deesa	29.39	746.4	29.85	758.2	91.6	33.1	31	w.	7.0	3.1	.....	.....	9	nw.	.....	0	0	d. clouds	
Bombay	29.82	757.3	29.85	758.3	85.7	29.8	62	nnw.	16	7.2	.....	.....	1	w.	.....	0	0	d. clouds	
Poona, Yarrowda	27.98	710.6	29.77	756.2	96.2	35.7	15	w.	17	7.6	.....	.....	4	w.	.....	0	0	d. clouds	
Belgaum	27.30	693.5	29.77	756.2	90.0	32.2	17	s.	2	0.9	.....	.....	8	ne.	n.	0	0	misty	
Lahore	29.17	740.9	29.92	760.0	77.9	25.5	36	sw.	1.0	0.4	.....	.....	10	.....	.....	0	0	overcast	
Roorkee	28.95	735.4	29.85	758.1	82.2	27.9	30	nw.	1.0	0.4	.....	.....	8	.....	.....	0.02	0.5	.....	
Agra	29.28	743.7	29.83	757.8	90.2	32.3	21	nw.	2.8	1.2	.....	.....	3	.....	w.	0	0	.....	
Nagpur	28.80	731.6	29 82	757.5	92.9	33.8	19	s.	5.8	2.6	.....	.....	5	nw.	.....	0.02	0.5	d. clouds	
Jubbulpore	28.52	724.5	29.86	758.4	87.8	31.0	25	calm	4.3	1.9	.....	.....	0	.....	.....	0	0	blue sky	
Lucknow	29.45	748.0	29.82	757.4	92.6	33.7	18	calm	1.3	0.6	.....	.....	9	.....	.....	0	0	.....	
Allahabad	29.49	749.0	29.80	756.8	90.8	32.7	25	n.	2.3	1.0	.....	.....	10	.....	.....	0	0	overcast	
Patna	29.64	752.8	29.82	757.5	88.6	31.4	39	ne.	3.2	1.4	.....	.....	8	ne.	ne.	0	0	d. clouds	
Hazaribagh	27.82	706.5	29.79	756.6	87.8	31.0	29	nw.	9.6	4.3	.....	.....	6	nw.	.....	0	0	.....	
Cuttack	29.77	756.1	29.85	758.1	89.1	31.7	42	s.	1.7	0.8	.....	.....	4	.....	.....	0.01	0.3	d. clouds	
Calcutta, Alipore	29.82	757.3	29.84	757.9	84.5	29.2	42	sw.	3.0	1.3	.....	.....	2	.....	.....	0	0	d. clouds	
Dhubri	29.70	754.4	29.82	757.4	82.4	28.0	47	calm	2.0	0.9	.....	.....	0	.....	.....	0	0	blue sky	
Chittagong	29.81	757.2	29.90	759.6	81.0	27.2	62	calm	3.6	1.6	.....	.....	2	.....	.....	0	0	blue sky	
Sibsagar	29.56	750.8	29.90	759.4	73.8	23.2	72	ne.	2.2	1.0	.....	.....	0	.....	.....	0	0	blue sky	
Jeypore	28.44	722.3	29.87	758.7	84.9	29.4	23	wnw.	4.1	1.8	.....	.....	9	w.	.....	0	0	d. clouds	
Zanzibar, Africa	29.87	758.7	.....	.....	84.8	29.3	77	wnw.	4.9	2.2	.....	.....	6	.....	.....	.....	.....	drizzling	
Trichinopoly	29.63	752.6	.....	.....	91.1	32.8	31	e.	1	0.4	.....	.....	0	.....	.....	0	0	blue sky	
ITALIAN.																			
Udine	29.99	761.8	30.40	772.2	69.3	20.7	27	sw.	0.7	0.3	.....	.....	0	.....	.....	0	0	.....	Prof. Giovanni Cloditz.
Milan	29.91	759.6	30.43	772.8	66.9	19.4	43	ssw.	3.1	1.4	.....	.....	0	.....	.....	0	0	.....	Prof. Schiaparelli.
Padua	30.30	769.5	30.41	772.3	66.2	19.0	51	sse.	0.7	0.3	.....	.....	0	.....	.....	0	0	.....	Prof. Dott. Lorenzoni.
Moncalieri	29.50	749.3	30.41	772.4	64.4	18.0	50	se.	0	0	.....	.....	0	.....	.....	0	0	.....	Prof. P. F. Denza.
Genoa	30.24	768.0	30.43	772.9	64.4	18.0	47	sw.	3.1	1.4	.....	.....	0	.....	.....	0	0	.....	Prof. G. M. Garibaldi.
Mondovi	28.50	723.8	30.42	772.6	63.7	17.6	33	nw.	.....	.....	4	.....	0	.....	.....	0	0	.....	Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
ITALIAN.—Continued.																			
Pesaro	30.33	770.4	30.38	771.6	62.2	16.8	51	n.	12.5	5.6	.....	.....	0	.....	.....	0	0	.....	Prof. Luigi Guidi.
Florence	30.13	765.3	30.39	771.8	67.5	19.7	37	w.	.....	.....	2	.....	0	.....	.....	0	0	.....	Prof. Costantino Pitter.
Leghorn	30.30	769.6	30.39	771.8	65.5	18.6	53	nw.	1.3	0.6	.....	.....	0	.....	.....	0	0	.....	Prof. P. Monte.
Rome	30.19	766.7	30.36	771.1	69.4	20.8	20	ssw.	1.3	0.6	.....	.....	0	.....	.....	0	0	.....	Prof. P. S. Ferrari.
Lecce	30.04	763.0	30.30	769.5	63.1	17.3	29	wnw.	24.2	10.8	.....	.....	0	.....	.....	0	0	.....	Prof. U. de Giorgi.
Cosenza	29.42	747.3	30.32	770.0	64.8	18.2	75	sse.	3.1	1.4	.....	.....	0	.....	.....	0	0	.....	Prof. D. Conti.
Cagliari	30.19	766.9	30.39	771.8	63.1	17.3	61	s.	.....	.....	2	.....	0	.....	.....	0	0	.....	Prof. A. Pacinotti.
Palermo	30.14	765.5	30.39	771.9	66.7	19.3	41	ne.	6.9	3.1	.....	.....	0	.....	.....	0	0	.....	Prof. G. Ciacciatore.
Syracuse	30.24	768.1	30.29	769.3	67.3	19.6	47	se.	6.9	3.1	.....	.....	0	.....	.....	0	0	.....	Prof. Vincenzo Guiliano.
Sub-series.																			
Naples, S. R	29.80	756.9	30.32	770.0	70.0	21.1	36	nnw.	1.8	0 8	.....	.....	1	n.	.....	0	0	.....	Prof. T. Brioschi.
Stelvio	22.53	572 2	.....	.....	39.9	4.4	32	w.	.....	.....	1	.....	0	.....	.....	0	0	clear	Prof. P. F. Denza.
Valdobbia	22.58	573.6	.....	.....	42.8	6.0	43	se.	.....	.....	2	.....	0	.....	.....	0	0	clear	Prof. P. F. Denza.
JAPANESE.																			
Aomori	29.80	756.9	29.83	757.7	35.2	1.8	70	w.	18.3	8.2	.....	0	3 ks	.....	.....	0.210	5.3	fair	K. Ogawa.
Hakodate	29.78	756.4	29.79	756.6	34.0	1.1	66	n.	21.0	9.4	.....	.....	0	.....	.....	0.500	12.7	clear	
Hiroshima, I. M. Obs'y	30.04	763.0	30.06	763.5	52.2	11.2	61	nne.	5.1	2.3	...	0	0	.....	.....	0	0	clear	K. Sasaki.
Kanazawa	30.01	762.2	30.12	765 0	42.8	6.0	85	sw.	4.0	1.8	.....	ck	6 ks	.....	.....	0	0	fair	S. Endo.
Kioto	29.95	760.7	30.13	765.3	47.7	8.7	64	nw.	5.1	2.3	.....	0	0	.....	.....	0	0	clear	M. Tojima.
Kochi	30.07	763.8	30.09	764.3	56.1	13.4	60	nw.	3.3	1.5	.....	0	0	.....	.....	0	0	clear	
Nagasaki, I. M. Obs'y	29.94	760.5	30.15	765.8	53.5	11.9	93	s.	0.6	0.3	.....	0	4 s	.....	.....	0	0	clear	S. Takehayashi.
Niigata	30.01	762.2	30.04	763.0	42.2	5.7	71	wnw.	3.5	1.6	.....	10 ck	0	.....	.....	0.010	0.3	cloudy	
Nobiru	29.78	756.4	29.79	756.6	40.6	4.8	73	nnw.	24.2	10.8	.....	0	1 s	.....	.....	0.100	2.5		H. Midzushina.
Supporo	.....	.....	.....	.....	32.8	0.4	94	nw.	24.0	10.7	.....	.....	10	.....	.....	0.010	0.3	snowing	
Tokei, Obs'y, Yeddo	29.84	757.9	29.91	759.7	51.3	10.7	54	nnw.	9.2	4.1	.....	0	0	.....	.....	0	0	clear	The Staff.
Wakayama	30.02	762.5	30.07	763.8	53.3	11.8	59	ene.	4.7	2.1	.....	0	0	.....	.....	0	0	clear	Y. Kuwamura.
MAURITIUS.																			
Mauritius Observatory	29.83	757.7	30.02	762.5	80.1	26.7	70	nne.	10.0	4.5	.....	4ck;cs	4 ks;n	.....	ne.	0	0	cloudy	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.77	603.7	29.99	761.7	59.0	15.0	69	sw.	.....	.....	.....	2	0	s.	.....	0	0	clear	Vicente Fernandez.
Leon	24.42	620.3	30.14	765.6	56.1	13.4	77	nnw.	.....	.....	1	3	0	.....	.....	0	0	foggy	Prof. M. Leal.
Mazatlan	29.70	754.4	29.96	761.0	64.5	18.1	89	e.	5.3	2.3	.....	0	0	.....	.....	0	0	hazy	F. Quijano, C. E.
Mexico, Central Obs'y	23.15	587 9	30.27	768.9	48.7	9.3	44	nw.	0.2	0.1	.....	0	0	.....	.....	0	0	fine	M. Tena, M. D.
Morelia	24.25	616.0	30.39	771.8	57.7	14.3	77	se.	.....	.....	2	2	2	s.	se.	0	0	clear	The Staff.
Pabellon, Aguascalientes	23.99	609.3	30.03	762.8	57.7	14.3	88	.....	.....	.....	.....	6	0	ssw.	.....	0	0	foggy	M. Y. de Leon, M. E.
Puebla, Catholic Institute	23.48	596.5	30.41	772.5	44.2	6.8	45	calm	0	0	.....	0	0	.....	.....	0	0	clear	Prof. P. Spina.
San Luis Potosi	24.27	616.3	30.28	769.0	56.5	13.7	57	sse.	.....	.....	1	3	0	w.	.....	0	0	clear	G. Barroeta, M. D.
Vera Cruz	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Zacatecas	22.64	574.7	30.26	768.4	57.5	14.3	53	wsw.	4.0	1.8	.....	4	0	se.	.....	0	0	½ cloudy	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.58	776.6	30.58	776.6	52.5	11.4	.....	w.	.....	.....	3	.....	.....	.....	.....	0.004	0.1	.....	
Groningen	30.47	773.8	30.52	775.2	51.4	10.8	.....	nw.	.....	.....	1	.....	.....	.....	.....	0	0	.....	
Helder	30.54	775.7	30.54	775.7	47.1	8.4	.....	w.	.....	.....	1	.....	.....	.....	.....	0	0	.....	
Hellevoetsluis	30.55	776.0	30.55	776.0	54.3	12.4	73	wsw.	.....	.....	2	.....	.....	.....	.....	0	0	.....	
Utrecht	30.50	774.8	30.55	776.0	59.2	15.1	56	wsw.	.....	.....	1	.....	0	.....	.....	0	0	clear	H. van der Brink.
NORWEGIAN.																			
Bergen	30.29	769.4	30.35	771.0	37.4	3.0	57	nnw.	7	3	.....	.....	7	.....	.....	0	0	.....	
Brono	30.04	763.1	30.08	764.1	24.8	— 4.0	73	nnw.	25	11	.....	.....	10	.....	.....	0.157	4.0	snowing	
Christiania	30.04	763.0	30.19	766.8	41.9	5.5	27	nw.	13	6	.....	.....	1	.....	.....	0	0	.....	
Gjæsver	29.28	743.6	29.30	744.2	23.0	— 5.0	.....	nnw.	.....	.....	6–7	.....	10	.....	.....	.....	.....	.....	
Lodingen	29.69	754.0	29.73	755.2	20.3	— 6.5	89	w.	.....	.....	4	.....	10	.....	.....	0.161	4.1	snowing	
PORTUGUESE.																			
Angra, Azores	.....	.....	.....	.....	62.2	16.8	87	se.	6.9	3.1	.....	.....	2	.....	.....	0	0	.....	Dr. J. A. Sampaio.
Campo Major	29.38	746.2	30.37	771.5	67.8	19.9	32	ene.	3.8	1.7	.....	.....	0	.....	.....	0	0	.....	Dr. A. M. R. dos Santos.
Funchal, Maderia	30.26	768.5	30.34	770.7	66.0	18.9	60	sw.	3.1	1.4	.....	.....	5	.....	.....	0	0	.....	Capt. D. A. de Cunha.
Lisbon, Observatory	30.07	763.8	30.43	773.0	63.1	17.3	47	nne.	6.9	3.1	.....	.....	0	.....	.....	0	0	.....	The Staff.
Ponta Delgada, Azores	30.31	769.9	30.38	771.7	65.1	18.4	77	sse.	5.6	2.5	.....	.....	4	.....	.....	0	0	.....	
Saint Paul de Loando	29.74	755.3	29.93	760.3	83.1	28.4	90	wsw.	1.8	0.8	.....	.....	3	s.	.....	0	0	.....	
Serra da Estrella	25.64	651.2	30.41	772.4	50.5	10.3	25	se.	19.2	8.6	.....	.....	0	.....	.....	0	0	.....	
RUSSIAN.																			
Akmolinski	28.69	738.6	29.81	757.1	28.2	— 2.1	90	ssw.	22	10	.....	1 c	0	.....	.....	0	0	.....	Major K. Lasarew.
Archangel	28 85	732 7	28.87	733.2	20.5	— 6.4	87	w.	22	10	.....	.....	10	.....	.....	0	0	.....	Capt. Sseliwerstow.
Astrakhan	29.45	748.0	29.37	745.9	45.3	7.4	64	wsw.	29	13	.....	.....	10 k	.....	.....	0.063	1.6	.....	Capt. Wisganow.
Barnaul	29.48	748.8	30.00	762.0	30.9	— 0.6	75	sw.	18	8	.....	.....	10	.....	.....	0	0	.....	Meteorological Obs'y.
Dorpat	29.41	747.1	29.67	753.5	29.7	— 1.3	42	nw.	16	7	.....	0	8 ks	.....	.....	0	0	.....	Observatory.
Ekaterinburg	28.04	712.1	29.00	736.6	34.5	1.4	66	ssw.	11	5	.....	.....	10	.....	.....	.....	.....	light snow	Meteorological Obs'y.
Kasan	28.24	717.3	28.51	724.1	32.2	0.1	99	s.	22	10	.....	.....	10	.....	.....	0.008	0.2	snowing	Observatory.
Kertch	29.55	750.5	29.57	751.0	52.3	11.3	60	w.	16	7	.....	0	8 n	.....	.....	0	0	.....	Lagorio & Sastyrez.
Kieff	28.91	734.4	29.56	750.9	35.8	2.1	96	nw.	22	10	.....	.....	9 ks;n	.....	.....	0.118	3.0	.....	Observatory.
Lugan	28.95	735.4	29.16	740.7	45.5	7.5	64	w.	45	20	.....	.....	6	.....	.....	0.031	0.8	.....	Meteorological Obs'y
Moscow	28.54	724.8	29.03	737.3	24.8	— 4.0	53	n.	13	6	.....	0	7 ks	.....	.....	0.008	0.2	.....	Meteorological Obs'y.
Nikolaiev	29.03	752.6	29.70	754.4	55.4	13.0	53	nnw.	45	20	.....	0	8 kn	.....	.....	0	0	.....	Capt. Kurdakow.
Nikolaievsk, on the Amoor	29.69	754.0	29.77	756.2	— 1.8	—18.8	85	calm	0	0	.....	.....	0	.....	.....	0	0	.....	Lieut. Iwanow.
Pekin, China	29.80	757.0	29.95	760.6	45.9	7.7	47	se.	7	3	.....	0	0	.....	.....	0	0	.....	Physical Observatory
St. Petersburg	29.41	747.1	29.43	747.5	27.0	— 2.8	39	nw.	25	11	.....	0	2 k	.....	.....	0	0	.....	Central Physical Obs
Tashkend, Laboratory	28.17	715.6	29.73	755.2	55.2	12.9	56	ne.	28.0	12.5	.....	.....	2	.....	.....	0.035	9.0	light clouds	Teich, A. M.
Tiflis	28.32	719.3	29.75	755.6	46.9	8.3	40	nw.	38	17	.....	0	2 k	.....	.....	0	0	.....	Physical Observatory
Vladivostok	29.98	761.6	30.05	763.3	28.6	— 1.9	98	nw.	4	2	.....	0	4 k	.....	.....	0	0	.....	
Warsaw	29.62	752.3	30.05	763.2	48.7	9.3	61	wnw.	29	13	.....	.....	10 ks	.....	.....	.....	.....	.....	Astronomical Obs'y
Wilna	29.35	745.0	29.78	756.5	39.9	4.4	43	nnw.	18	8	.....	.....	4	.....	.....	0	0	.....	Berg, Assistant.
Yeniseisk	29.47	748.6	29.77	756.1	30.6	— 0.8	92	sw.	20	9	.....	.....	10	.....	.....	0.055	1.4	snowing	M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	30.33	770.4	30.43	773.0	66.2	19	50	s.	2.9	1.3	.....	.....	0	.....	.....	0	0	clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.42	772 7	30.48	774.2	68.7	20.4	51	sw.	2.9	1.3	.....	0	0	.....	.....	0	0	clear	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.48	697.9	30.43	772.8	64.4	18.0	32	s.	2.7	1.2	.....	0	0	.....	.....	0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	28.20	716.2	30.41	772.3	67.5	19.7	33	se.	5.4	2.4	.....	0	0	.....	.....	0	0	clear	The Staff.
Murcia, Met. Obs'y	30.27	768.9	30.40	772.1	70.3	21.3	45	w.	2.0	0.9	.....	0	0	.....	.....	0	0	clear	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.48	748.9	30.36	771.2	73.6	23.1	39	calm	0	0	.....	.....	0	.....	.....	0	0	clear	R. Gil Vallanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I	30.06	763.5	30.13	765.2	66.8	19.3	88	calm	0	0	.....	0	0	.....	.....	0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.98	761.4	30.03	762.8	77.3	25.2	71	e.	5.7	2.5	.....	0	2 ks	.....	.....	0.157	4.0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.27	768.9	30.37	771.4	69.1	20.6	32	e.	18.8	8.4	.....	0	0	.....	.....	0	0	.....	Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	29.99	761.8	30.08	764.1	73.8	23.2	94	calm	0	0	.....	2 cs	4 k	w.	w.	0.395	7.5	.....	Manuel Maeu.
Tuguegarao, Philippine Id's	29.92	760.0	30.05	763.3	75.8	24.3	84	nw.	2.2	1.0	.....	0	6 ks	.....	nw.	0	0	cloudy	José L. Yrastorza.
SWEDISH.																			
Haparanda	29.51	749.6	29.55	750.6	25.9	— 3.4	52	nw.	.....	.....	6	.....	2	.....	.....	0	0	.....	
Umea	29.71	754.6	29.76	755.9	28.4	— 2.0	48	n.	.....	.....	8	.....	0	.....	.....	0	0	.....	
Hernosand	29.85	758.3	29.91	759.6	30.0	— 1.1	45	nnw	.....	.....	8	.....	5	.....	.....	0.004	0.1	.....	
Stockholm	29.87	758.6	30.04	763.1	34.9	1.6	54	nnw.	.....	.....	7	.....	1	.....	.....	0.028	0.7	.....	
Wisby	29.93	760.3	29.99	761.8	36.7	2.6	52	n.	.....	.....	6	.....	0	.....	.....	0	0	.....	
Sub-series.																			
Upsala	29.93	760.1	30.01	762.3	33.6	0.9	65	nw.	21.5	9.6	.....	.....	8	.....	.....	0	0	.....	S. G. Fineman.
SWISS.																			
Geneva	29.05	737.8	30.47	773.8	57.0	13.9	46	n.	.....	.....	1	.....	.....	.....	.....	0	0	clear	The Observatory

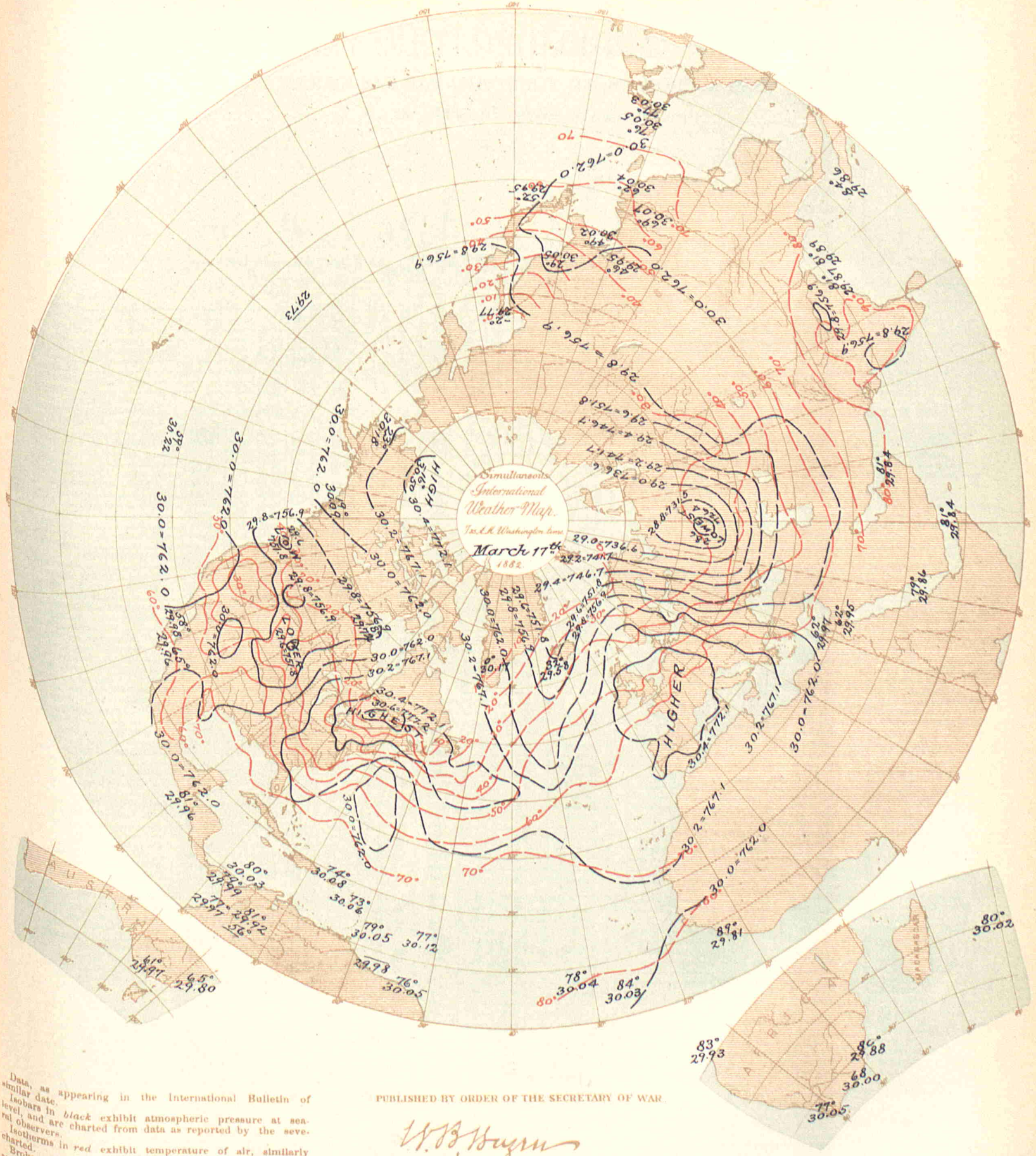
STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
TURKISH.																			
Constantinople	.....	.....	29.98	761.4	52.5	11.4	55	sw.	8	3.5	.....	.....	3	.....	sw.	0	0	.....	The Observatory.
Valona	.....	.....	30.28	769.1	65.8	18.8	.....	nw.	.....	.....	1	.....	0	.....	.....	0	0	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	29.81	757.1	61.0	16.1	77	ssw.	.....	.....	2	0	3 n	.....	sw.	0.71	18.0	.....	Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	30.34	770.6	30.43	772.9	33	0.6	60	n.	10	4.5	.....	3 c	0	.....	.....	0	0	clear	J. O. Barnes.
Alpena, Michigan	29.70	754.4	30.40	772.1	30	— 1.1	77	e.	14	6.3	.....	7 cs	0	.....	.....	0	0	fair	Jas. J. Fitzgerald.
Atlanta, Georgia	29.06	738.1	30.27	768.8	46.5	8.1	76	e.	13	5.8	.....	.....	10 s	.....	e.	0	0	cloudy	H. Hall.
Atlantic City, New Jersey	30.28	769.1	30.29	769.4	31.2	— 0.4	54	n.	14	6.3	.....	0	0	.....	.....	0.05	1.3	clear	Jas. M. Watson.
Augusta, Georgia	30.11	764.8	30.31	769.9	54.0	12.2	62	ne.	5	2.2	.....	0	0	.....	.....	0	0	clear	John Healy.
Baltimore, Maryland	30.35	770.9	30.40	772.1	37	2.8	72	n.	4	1.8	.....	.....	10 s	.....	n.	0	0	cloudy	Robert Seyboth.
Barnegat, New Jersey	30.28	769.1	30.30	769.6	31.0	— 0.6	85	n.	19	8.5	.....	0	3 k	.....	ne.	0.53	13.5	clear	Chas. F. Merritt.
Bismarck, Dakota	27.69	703.3	29.61	752.1	27	— 2.8	100	e.	10	4.5	.....	.....	fg.	.....	.....	inap.	inap.	dense fog	Cyrus Cramer.
Boise City, Idaho	27.00	685.8	29.92	760.0	30	— 1.1	88	se.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	B. E. Light.
Boston, Massachusetts	30.17	766.3	30.33	770.4	29.0	— 1.7	77	n.	16	7.2	.....	3 cs	0	.....	.....	0.11	2.8	clear	O. B. Cole.
Brownsville, Texas	29.93	760.2	29.98	761.5	73	22.8	90	se.	12	5.4	.....	0	8 ks	.....	se.	0	0	cloudy	J. C. Galloway.
Buffalo, New York	29.66	753.4	30.45	773.4	22	— 5.6	84	ne.	5	2.2	.....	0	sk.	.....	.....	inap.	inap.	clear	Wm. Finn.
Burlington, Vermont	30.18	766.6	30.49	774.4	15.3	— 9.3	69	n.	7	3.1	.....	0	0	.....	.....	0	0	clear	G. C. Schaeffer.
Cairo, Illinois	29.68	753.9	30.10	764.5	47.7	8.7	88	e.	8	3.6	.....	.....	10 s	.....	sw.	0.04	1.0	cloudy	W. H. Ray.
Campo, California	27.43	696.7	30.04	763.0	40.8	4.9	92	sw.	4	1.8	.....	.....	10 s	.....	sw.	0.16	4.1	cloudy	W. H. Clendenon.
Camp Thomas, Arizona	27.16	689.9	29.94	760.5	59.5	15.3	80	nw.	.....	.....	2	.....	9 s	.....	.....	0	0	cloudy	J. T. Fitzgerald.
Cape Henry, Virginia	30.31	769.9	30.33	770.4	38	3.3	61	n.	17	7.6	.....	0	0	.....	.....	0	0	clear	J. E. Lanouette.
Cape May, New Jersey	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.02	0.5	.....	W. Bolton.
Castroville, Texas	29.15	740.4	29.98	761.5	68	20.0	93	se.	10	4.5	.....	.....	10 s	.....	.....	0	0	cloudy	T. Jones.
Cedar Keys, Florida	30.17	766.3	30.19	766.8	62	16.7	87	calm	0	0	.....	.....	10 s	.....	e.	0.05	1.3	cloudy	F. W. Mixer.
Champaign, Illinois	29.26	743.2	30.12	765.0	40.0	4.4	82	se.	18	8.0	.....	.....	10 s	.....	se.	0	0	cloudy	L. A. Welsh.
Charleston, S. Carolina	30.20	767.1	30.26	768.6	51	10.6	80	ne.	13	5.8	.....	0	0	.....	.....	0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.46	748.3	30.34	770.6	40.0	4.4	73	e.	7	3.1	.....	0	sk.	.....	.....	0	0	clear	D. O. Donoghue.
Chattanooga, Tennessee	29.40	746.7	30.25	768.3	46.0	7.8	76	se.	3	1.3	.....	5 ck	sk.	w.	.....	0	0	fair	B. L. Goulding.
Cheyenne, Wyoming	23.68	601.5	29.86	758.4	37.2	2.9	26	w.	6	2.7	.....	0	0	.....	.....	0	0	clear	E. McGovern.
Chicago, Illinois	29.43	747.5	30.17	766.3	35.9	2.2	92	se.	16	7.2	.....	9 k	0	.....	se.	0	0	cloudy	J. Mitchell.
Chincoteague, Virginia	30.28	769.1	30.30	769.6	33	0.6	78	n.	20	8.9	.....	0	2 ks	.....	ne.	inap.	inap.	clear	F. C. Pratz.
Cincinnati, Ohio	29.61	752.1	30.30	769.6	39	3.9	73	e.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	R. B. Watkins.
Cleveland, Ohio	29.61	752.1	30.39	771.9	28.5	— 1.9	87	e.	7	3.1	.....	0	0	.....	.....	0	0	clear	J. B. Newlin.
Coleman City, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	L. Dorman.
Columbus, Ohio	29.41	747.0	30.30	769.6	35	1.7	69	se.	10	4.5	.....	.....	10 s	.....	.....	0	0	cloudy	D. Cuthbertson.
Concho, Texas	27.97	710.4	29.94	760.5	67	19.4	84	s.	9	4.0	.....	.....	10 ks	.....	s.	0	0	cloudy	W. W. McConihe.
Davenport, Iowa	29.28	743.7	29.98	761.5	41	5.0	73	se.	14	6.3	.....	.....	10 s	.....	sw.	0	0	cloudy	R. R. Martin.
Dayton, Washington T'y	28.00	711.2	29.82	757.4	34.8	1.6	86	sw.	4	1.8	.....	.....	10 s	.....	sw.	0.64	16.3	cloudy	H. Clifford.
Deadwood, Dakota	24.85	631.2	29.69	754.1	43.5	6.4	37	sw.	20	8.9	.....	4 cs	0	w.	.....	0	0	fair	G. W. Scott.
Decatur, Texas	.....	.....	.....	.....	50	10.0	52	n.	20	8.9	.....	.....	10 s	.....	n.	0	0	cloudy	D. J. Carr.
Delaware Breakwater, Del.	30.31	769.9	30.33	770.4	35	1.7	79	n.	32	14.3	.....	0	0	.....	.....	0	0	clear	A. Schneider.
Denison, Texas	29.09	738.9	29.92	760.0	68.0	20.0	84	s.	18	8.0	.....	.....	10 s	.....	.....	0	0	cloudy	J. McGlone.
Denver, Colorado	24.35	618.5	29.79	756 7	50.7	10.4	16	s.	10	4.5	.....	5 cs	0	calm	.....	0	0	fair	F. M. Neal.
Des Moines, Iowa	28.82	732.0	29.78	756.4	41	5.0	82	s.	9	4.0	.....	.....	10 n	.....	s.	0.23	5.8	heavy rain	F. W. Conrad.
Detroit, Michigan	29.64	752.8	30.39	771.9	37.2	2.9	82	e.	9	4.0	.....	0	1 s	.....	e.	0	0	clear	C. F. R. Wappenhans.
Dodge City, Kansas	27.00	687.3	29.79	756.7	52	11.1	43	w.	13	5.8	.....	.....	10 s	.....	.....	0	0	cloudy	E. A. Thomas.
Dubuque, Iowa	29.24	742.7	29.98	761.5	35.5	1.9	79	se.	8	3.6	.....	.....	10 s	.....	se.	0	0	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.29	744.0	30.03	762.7	34	1.1	88	ne.	5	2.2	.....	.....	10 s	.....	calm	0.04	1.0	cloudy	N. B. Conger.
Eagle Pass, Texas	29.13	739.9	29.95	760.7	70.3	21.3	78	se.	11	4.9	.....	.....	10 s	.....	se.	0	0	cloudy	F. Belford.
Eagle Rock, Idaho	25.00	636.5	29.93	760.2	17	— 8.3	87	sw.	16	7.2	.....	0	0	.....	.....	0.30	7.6	clear	J. M. Clifford.
Eastport, Maine	30.33	770.4	30.40	772.1	28.5	— 1.9	72	ne.	9	4.0	.....	3 c	0	.....	.....	0	0	clear	J. H. Melton.
El Paso, Texas	26.18	665.0	29.98	761.5	59	15.0	36	w.	10	4.5	.....	10 k	0	sw.	.....	0	0	cloudy	J. F. Marshall.
Erie, Pennsylvania	29.66	753.4	30.43	772.9	28	— 2.2	77	e.	1	0.4	.....	0	0	.....	.....	0	0	clear	R. H. Paxton.
Escanaba, Michigan	29.55	750.6	30.26	768.6	33	0.6	78	se.	9	4.0	.....	.....	10 s	.....	se.	0	0	cloudy	C. Dill.
Florence, Arizona	28.44	722.4	30.01	762.2	56.5	13.6	43	nw.	5	2.2	.....	.....	10 s	.....	sw.	0	0	cloudy	R. R. Herman.
Fort Apache, Arizona	24.97	634.2	29.99	761.7	43	6.1	76	s.	18	8.0	.....	.....	10 s	.....	calm	0	0	cloudy	W. G. Barnes.
Fort Assinnaboine, Montana	26.87	682.5	29.88	758.9	21	— 6.1	61	w.	10	4.5	.....	.....	10 s	.....	w.	0	0	cloudy	B. O. Lenoir.
Fort Bennett, Dakota	27.88	708.1	29.58	751.3	35	1.7	89	se	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	T. Gibson.
Fort Benton, Montana	26.93	684.0	29.91	759.7	22	— 5.6	100	n.	12	5.4	.....	.....	10 n	.....	ne.	0.01	0.3	light snow	S. Wheaton.
Fort Buford, Dakota	27.53	699.2	29.67	753.6	31	— 0.6	62	e.	2	0.9	.....	.....	10 s	.....	calm	0	0	cloudy	A. H. Bell.
Fort Custer, Montana	26.42	671.1	29.75	755.6	39	3.9	57	w.	6	2.7	.....	.....	10 s	.....	calm	0	0	cloudy	V. Verge.
Fort Davis, Texas	25.12	638.0	30.00	762.0	54	12.2	77	sw.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. Williams.
Fort Elliott, Texas	27.01	686.0	29.84	757.9	61	16.1	62	s.	12	5.4	.....	0	0	.....	.....	0	0	clear	W. J. Cundall.
Fort Gibson, Indian T'y	29.25	742.9	29.84	757.9	65.5	18.6	84	se.	14	6.3	.....	.....	10 s	.....	s.	0	0	cloudy	J. B. Campbell.
Fort Grant, Arizona	25.21	640.3	30.04	763.0	50	10.0	39	nw.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	T. J. Macgowan.
Fort Griffin, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	G. H. Rayne.
Fort Keogh, Montana	27.04	686.8	29.69	754.1	41	5.0	67	w.	7	3.1	.....	10 cs	0	w.	.....	0	0	cloudy	W. B. Stockman.
Fort Macon, North Carolina	30.28	769.1	30.29	769.4	39	3.9	82	ne.	15	6.7	.....	0	9 k	.....	n.	0	0	cloudy	L. Leonardy.
Fort McKavett, Texas	27.70	703.6	30.02	762.5	66.2	19.0	84	s.	9	4.0	.....	8 k	0	sw.	.....	0	0	cloudy	J. E. Thatcher.
Fort Missoula, Montana	26.38	670.0	29.76	755.9	31	— 0.6	88	sw.	2	0.9	.....	0	4 s	.....	.....	0.02	0.5	fair	J. H. Jones.
Fort St. Michaels, Alaska	30.15	765.8	30.18	766.6	23	— 5.0	100	e.	8	3.6	.....	.....	10 s	.....	e.	0	0	cloudy	A. P. Leavitt.
Fort Shaw, Montana	26.09	662.7	29.89	759.2	20	— 6.7	73	nw.	8	3.6	.....	.....	10 s	.....	.....	0	0	cloudy	A. L. Mathews.
Fort Sill, Indian Territory	28.58	725.9	29.87	758.7	62	16.7	93	s.	12	5.4	.....	8 k	0	sw.	.....	0	0	cloudy	T. Cleary.
Fort Stevenson, Dakota	27.67	702.8	29.65	753.1	31	— 0.6	88	se.	3	1.3	.....	.....	10 s	.....	calm	0	0	cloudy	W. Burrows.
Fort Verde, Arizona	.....	.....	.....	.....	54.6	12.6	64	s.	.....	.....	1	.....	10 s	.....	s.	0	0	cloudy	D. Brooks.
Fort Washakie, Wyoming	24.09	611.9	.....	.....	31.7	— 0.2	60	w.	16	7.2	.....	0	1 k	.....	.....	0	0	clear	T. M. Ambler.
Fredericksburg, Texas	28.19	716.0	29.95	760.7	66	18.9	84	sw.	15	6.7	.....	.....	10 ks	.....	sw.	0	0	cloudy	H. S. Miles.
Galveston, Texas	30.00	762.0	30.04	763.0	69	20.6	85	s.	10	4.5	.....	0	5 ks	.....	s.	0	0	fair	E. O'C. MacInerney.
Grand Haven, Michigan	29.57	751.1	30.27	768.8	32.5	0.3	94	e.	6	2.7	.....	.....	10 s	.....	e.	0	0	cloudy	W. A. Reid.
Hatteras, North Carolina	30.24	768.1	30.26	768.6	41	5.0	82	n.	28	12.5	.....	.....	10 k	.....	nw.	0	0	cloudy	R. M. Crawford.
Helena, Montana	25.42	645.7	29.79	756.7	32	0.0	62	sw.	4	1.8	.....	.....	10 s	.....	sw.	inap.	inap.	cloudy	N. O. Smith.
Henrietta, Texas	28.88	733.5	29.92	760.0	67	19.4	84	s.	10	4.5	.....	.....	10 s	.....	.....	0	0	cloudy	J. W. Byram.
Huron, Dakota	28.14	714.7	29.62	752.3	36.8	2.7	82	se.	24	10.7	.....	.....	10 s	.....	.....	0	0	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.35	745.5	30.19	766.8	38	3.3	72	se.	8	3.6	.....	3 ck	4 ks	w.	sw.	0	0	fair	O. Schutze
Indianola, Texas	30.00	762.0	30.03	762.7	68.4	20.2	93	s.	6	2.7	.....	2 cs	1 ks	s.	s.	0	0	clear	I. A. Reed.
Jacksboro, Texas	28.69	728.7	29.90	759.4	65	18.3	90	sw.	7	3.1	.....	.....	10 s	.....	s.	0	0	cloudy	J. P. Sherry.
Jacksonville, Florida	30.13	765.3	30.18	766.6	62	16.7	87	n.	4	1.8	.....	.....	10 s	.....	n.	0	0	cloudy	J. W. Smith.
Keokuk, Iowa	29.21	741.9	29.90	759.4	42.5	5.8	78	se.	16	7.2	.....	.....	10 s	.....	s.	inap.	inap.	threatening	F. Z. Gosewisch
Key West, Florida	30.14	765.5	30.16	766.1	71.0	21.7	73	n.	4	1.8	.....	0	3 k	.....	n.	0	0	clear	L. M. Melbourne.
Kittyhawk, North Carolina	30.27	768.8	30.29	769.4	39	3.9	73	ne.	39	17.4	.....	0	4 k	.....	.....	inap.	inap.	fair	E. A. Beals.
Knoxville, Tennessee	29.19	741.4	30.25	768.3	39.3	4.1	84	ne.	5	2.2	.....	2 ck	0	.....	.....	0	0	clear	J. A. Ody.
La Crosse, Wisconsin	29.14	740.1	29.96	761.0	38	3 3	72	se.	12	5.4	.....	.....	10 s	.....	.....	0	0	cloudy	S. C. Emery.
La Mesilla, New Mexico	26.04	661.4	29.99	761.7	45.2	7.3	63	calm	0	0	.....	0	4 s	.....	.....	0	0	fair	N. D. Lane.
Leavenworth, Kansas	28.81	731.8	29.75	755.6	57	13.9	80	s.	14	6.3	.....	.....	10 s	.....	s.	0	0	cloudy	A. W. Browne.
Lewiston, Idaho	28.93	734.8	29.79	756.7	36	2.2	72	e.	1	0.4	.....	0	4 s	.....	.....	0.08	2.0	fair	W. Blake.
Little Rock, Arkansas	29.63	752.6	29.96	761.0	58	14.4	74	calm	0	0	.....	0	7 s	.....	s.	0	0	fair	M. F. Burrows.
Los Angeles, California	29.70	754.4	30.10	764.5	47.3	8.5	77	w.	5	2.2	.....	0	5 s	.....	w	0.15	3.8	fair	E. F. Kubel.
Louisville, Kentucky	29.58	751 3	30.17	766.3	38	3.3	85	e	10	4.5	.....	.....	1C s	.....	.....	0	0	cloudy	H. C. Smith.
Lynchburg, Virginia	29.64	752.8	30.36	771.1	38.5	3.6	66	ne.	2	0.9	.....	.....	10 s	.....	.....	0	0	cloudy	T. H. Breen.
Madison, Wisconsin	29.03	737.3	30.10	764.5	35	1.7	76	ne.	17	7.6	.....	.....	10 s	.....	se.	0	0	cloudy	C. A. Shaw.
Marquette, Michigan	29.48	748.8	30.24	768.1	32	0.0	88	se.	12	5.4	.....	.....	10 s	.....	e.	0.03	0.8	cloudy	I. Gilligan.
Mason, Texas	28.28	718.3	29.97	761.2	68	20.0	81	sw.	8	3.6	.....	.....	10 s	.....	sw.	0	0	cloudy	A. M. Wilson.
Memphis, Tennessee	29.70	754.4	30.04	763.0	59	15.0	70	se.	5	2.2	.....	.....	10 s	.....	sw.	0	0	cloudy	D. T. Flannery.

STATIONS.	BAROMETER. Corrected for instrumental error and for temperature.		BAROMETER. Reduced to sea-level.		Temperature of the air.		Relative humidity.	WIND. Direction.	WIND. Velocity.		WIND. Force.	CLOUDS. Amount and kind.		CLOUDS. Direction.		Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–01	0–10	0–10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Milwaukee, Wisconsin	29.38	746.2	30.17	766.3	36	2.2	89	se.	22	9.8			10 s		se.	0	0	threatening	W. Line.
Mobile, Alabama	30.11	764.8	30.15	765.8	65	18.3	93	calm	0	0			10 s			0.40	10.2	cloudy	J. D. Paxton.
Montgomery, Alabama	29.94	760.5	30.18	766.6	55.3	12.9	68	e.	4	1.8		3 cs	0			0.13	3.3	clear	J. B. McLaughlin.
Moorhead, Minnesota	28.72	729.5	29.80	756.9	34	1.1	100	se.	32	14.3			10 s		se.	0.07	1.8	cloudy	H. Bessant.
Morgantown, W. Virginia	29.31	744.5	30.37	771.4	34.0	1.1	78	e.	3	1.3			10s;sk			0	0	cloudy	J. Sprigg, jr.
Mt. Washington, N. H.	23.80	604.5	30.32	770.1	6.0	—14.4	58	n.	23	10.3		0	1 s		n.	0	0	clear	J. G. Linsley.
Nashville, Tennessee	29.55	750.6	30.11	764.8	45.0	7.2	76	e.	5	2.2			10 ks		sw.	inap.	inap.	threatening	L. A. Jesunofsky.
New Haven, Connecticut	30.20	767.1	30.32	770.1	29	— 1.7	77	n.	16	7.2		0	0			0	0	clear	J. H. Sherman.
New London, Connecticut	30.26	768.6	30.30	769.6	32	0.0	68	n.	12	5.4		3 ck	0	n.		0.20	5.1	fair	J. G. Lynch.
New Orleans, Louisiana	30.04	763.0	30.10	764.5	64.5	18.1	92	se.	1	0.4			fg.			0	0	dense fog	A. J. Armstrong.
Newport, Rhode Island	30.22	767.6	30.27	768.8	31.3	— 0.4	80	n.	13	5.8		4 k	3 ks	ne.	n.	0.11	2.8	fair	W. McGillivray.
New River, N. Carolina					37	2.8	82	n			1	0	1 ks			0	0	clear	C. C. Corbin.
New Shoreham, Rhode I'd.	30.21	767.3	30.24	768.1	32.0	0.0	68	ne.	32	14.3		4 ck	4 s	ne.	ne.	0.95	24.1	cloudy	W. Davis.
New York, New York	30.16	766.1	30.34	770.6	33	0.6	78	n.	6	2.7		0	0			inap.	inap.	clear	E. B. Garriott.
Norfolk, Virginia	30.29	769.4	30.32	770.1	39	3.9	54	ne.	12	5.4		0	7 k		n.	0	0	fair	J. T. Elker.
North Platte, Nebraska	26.62	676.1	29.68	753.9	43.6	6.4	60	calm	0	0			10 s			0	0	cloudy	E. F. Brady.
Olympia, Washington T'y	29.63	752.6	29.67	753.6	38.0	3.3	82	s.	6	2.7			10 n		calm	0.01	0.3	light rain	J. Dascomb.
Omaha, Nebraska	28.41	721.6	29.66	753.4	51.8	11.0	80	se.	10	4.5			10s;fg		se.	0	0	cloudy	A. Pollak.
Ooglaamie, Pt. Barrow, Alas.	30.48	774.2	30.50	774.7	—15.5	—26.4	82	ese.	34	15.2		0	0			0	0	clear	P. H. Ray.
Oswego, New York	30.08	764.0	30.42	772.7	28.0	— 2.2	70	ne.	4	1.8		0	0			0	0	clear	S. W. Beall.
Palestine, Texas																			L. M. Pindell.
Pensacola, Florida	30.12	765.0	30.16	766.1	64.0	17.8	100	s.	4	1.8			10 s			0.38	9.7	cloudy	M. McGauran,
Philadelphia, Pa	30.26	768.6	30.36	771.1	35	1.7	79	n.	10	4.5		0	0			inap.	inap.	clear	T. F. Townsend.
Pike's Peak, Colorado	17.92	455.2	30.51	774.9	13	—10.6	87	sw.	42	18.8		0	5 s		sw.	0	0	fair	L. M. Dey.
Ploche, Nevada	23.79	604.3	29.93	760.2	31	— 0.6	74	n.	12	5.4		0	8 ks		s.	0.02	0.5	cloudy	C. K. Kitchel.
Pittsburg, Pennsylvania	29.54	750.3	30.39	771.9	34.0	1.1	66	e.	5	2.2			10 s		e.	0	0	cloudy	J. H. Bryce.
Port Eads, Louisiana	30.10	764.5	30.12	765.0	65.0	18.3	97	s.	6	2.7		0	2 s;hz			inap.	inap.	clear	H. G. Christian.
Port Huron, Michigan	29.67	753.6	30.39	771.9	27.8	— 2.3	88	calm	0	0		0	0			0	0	clear	W. O. Bailey.
Portland, Maine	30.32	770.1	30.36	771.1	27.0	— 2.8	64	ne.	14	6.3		4 c	0	calm		0	0	fair	D. C. Murphy.
Portland, Oregon	29.70	754.4	29.77	756.1	39.5	4.2	89	s.	12	5.4			10 s		s.	inap.	inap.	cloudy	M. L. Hearne.
Portsmouth, N. Carolina					40	4.4	65	ne.	36	16.1		6 k	0	n.		0	0	fair	F. P. Chaffee.
Prescott, Arizona	24.63	625.6	29.97	761.2	34	1.1	61	s.	17	7.6			10 s		s.	0	0	cloudy	J. McN. Wright.
Provincetown, Mass	30.24	768.1	30.27	768.8	33	0.6	78	ne.	23	10.3			10 s		e.	0.17	4.3	cloudy	P. T. Jenkins.
Punta Rassa, Florida	30.13	765.3	30.14	765.5	68	20.0	90	n.	5	2.2		0	1 ks		n.	0	0	clear	W. J. Evans.
Red Bluff, California	29.65	753.1	30.03	762.7	40.6	4.8	94	s.	8	3.6			10 n			0.01	0.3	light rain	J. M. Frantz.
Rio Grande City, Texas	29.71	754.6	29.95	760.7	70	21.1	90	se.	10	4.5		0	0 s		se.	0	0	fair	W. H. Taylor.
Rochester, New York	29.74	755.4	30.44	773.2	25	— 3.9	88	calm	0	0		0	sk.			0	0	clear	A. T. Sherwood.
Roseburg, Oregon	29.35	745.5	29.91	759.7	38.7	3.7	88	sw.	4	1.8		0	8 s		sw.	0.13	3.3	cloudy	J. J. Nanry.
Sacramento, California	30.00	762.0	30.08	764.0	40.4	4.7	89	se.	9	4.0			10 s			0.03	0.8	cloudy	J. A. Barwick.
St. Louis, Missouri	29.41	747.0	30.04	763.0	44.0	6.7	83	se.	17	7.6			10 s		s.	0.17	4.3	threatening	J. H. Webber.
St. Paul, Minnesota	28 98	736.1	29.90	759.4	33.5	0.8	87	se.	24	10.7			10 s		se.	0	0	cloudy	O. S. M. Cone.
St. Vincent, Minnesota	28.81	731.8	29.75	755.6	32	0.0	100	se.	17	7.6			10 n		calm	0.03	0.8	light rain	G. Klingsbury.
Salt Lake City, Utah	25.42	645.7	29.94	760.5	31	— 0.6	74	e.	4	1.8			10 s			0.10	2.5	cloudy	J. Craig.
San Antonio, Texas	29.26	743.2	29.97	761.2	68	20.0	90	se.	6	2.7			8 ks		s.	0	0	cloudy	E. Lane.
San Diego, California	29.99	761.7	30.06	763.5	51.3	10.7	88	n.	5	2.2		2 k	5 s	w.		0.08	2.0	fair	A. U. Dobbins.
Sandusky, Ohio	29.66	753.4	30.38	771.6	32	0.0	78	se.	7	3.1		0	0			0	0	clear	M. H. Perry.
Sandy Hook, New Jersey	30.30	769.6	30.34	770.6	34.0	1.1	78	n.	26	11.6		0	0			0.01	0.3	clear	B. A. Blundon.
San Francisco, California	30.01	762.2	30.08	763.0	46	7.8	83	sw.	4	1.8		0	2 s		w.	0.06	1.5	clear	N. Gorom.
Santa Fé, New Mexico	23.08	586.2	30.06	763.5	47.5	8.6	27	sw.	15	6.7			10 s			0	0	cloudy	H. N. Jones.
Savannah, Georgia	30.14	765.5	30.24	768.1	55	12.8	69	ne.	13	5.8		2 ck	0	e.		0.05	1.3	clear	H. M. Ford.
Shreveport, Louisiana	29.75	755.6	30.00	762.0	67	19.4	90	s.	3	1.3		0	8 k		s.	0	0	cloudy	E. N. Meekins.
Silver City, New Mexico	24.21	614.9	29.99	761.7	41	5.0	62	nw.	1	0.4		7 cs	0	calm		0	0	fair	J. B. Wallace.
Sitka, Alaska	30.02	762.5	30.09	764.3	18.5	— 7.5	52	ne.	17	7.6		0	0			0	0	clear	J. J. McLean.
Smithville, North Carolina	30.28	769.1	30.32	770.1	38	3.3	82	ne.	5	2.2		0	1 s	ne.		0	0	clear	J. C. Rickli.
Spokane Falls, Wash. Ter.	27.66	702.6	29.79	756.7	31	— 0.6	81	s.	9	4.0		0	0			0.33	8.4	clear	D. Moore.
Springfield, Illinois	29.33	745.0	30.05	763.3	44	6.7	76	se.	16	7.2			10 s		sw.	0.15	3.8	cloudy	T. B. Jennings.
Springfield, Massachusetts	30.24	768.1	30.38	771.6	30.8	— 0.7	68	n.	10	4.5		2 c	0			inap.	inap.	clear	T. S. Outram.
Springfield, Mo	28.44	722.4	30.00	762.0	55	12.8	80	s.	12	5.4			10 s		sw.	0	0	cloudy	J. B. Marbury.
Stockton, Texas	26.87	682.5	29.95	760.7	56.0	13.3	93	calm	0	0		0	0			0	0	clear	J. O'Dowd.
Thatcher's Island, Mass	30.28	769.1	30.34	770.6	33.0	0.6	88	ne.	28	12.5		10 k	0	ne.		0.03	0.8	cloudy	G. Liebmann.
Toledo, Ohio	29.62	752.3	30.35	770.9	30	— 1.1	78	ne.	6	2.7		0	0			0	0	clear	A. Buell.
Tucson, Arizona	27.51	698.7	29.97	761.2	56	13.3	47	calm	0	0			10 s			0	0	cloudy	J. L. Whiteside.
Umatilla, Oregon	29.45	748.0	29.83	757.7	36.0	2.2	79	w.	2	0.9		0	0			0	0	clear	R. P. Sibley.
Uvalde, Texas	28.98	736.1	29.96	761.0	69	20.6	84	s.	7	3.1			10 ks		s.	0	0	cloudy	E. C. Imlay.
Vicksburg, Mississippi	29.83	757.7	30.09	764.3	64	17.8	93	se.	3	1.3		0	9 s		se.	0.67	17.0	cloudy	T. J. Kenan.
Visalia, California	29.73	755.1	30.11	764.8	39.2	4.0	87	n.	1	0.4		0	0			0.28	7.1	clear	J. T. Cochran.
Washington, D. C.	30.28	769.1	30.40	772.1	36.5	2.5	75	n.	5	2.2			10 s		nw.	0.02	0.5	cloudy	B. M. Purssell.
West Las Animas, Colorado	25.72	653.3	29.80	756.9	55	12.8	17	sw.	18	8.0		0	8 s		sw.	0	0	cloudy	J. Grover.
Wickenburg, Arizona																			H. A. Kremp.
Williamsport, Pa	29.79	756.7	30.42	772.7	33	0.6	88	n.	3	1.3		0	6 ks	n.		0	0	fair	B. F. Hough.
Wilmington, N. Carolina	30.26	768.6	30.32	770.1	40	4.4	73	n.	7	3.1		0	sk.			0	0	clear	S. A. Haney.
Winnemucca, Nevada	25.43	645.9	29.93	760.2	22	— 5.6	73	sw.	8	3.6		0	5 ks	sw.		0	0	fair	J. R. Williams.
Yankton, Dakota	28.26	717.8	29.65	753.1	37	2.8	82	e.	10	4.5			10 s			0	0	cloudy	J. H. Atfield.
Yuma, Arizona	29.79	756.7	29.95	760.7	58.7	14.8	55	nw.	4	1.8			10s	nw.		0	0	cloudy	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.02	559.3			56.0	13.3	74	calm	0	0		4 k; c	2 s			0	0	fair	Joaquin Gomez.
Bridgetown, Barbados, W.I.	30.04	763.0	30.05	763.3	79	26.1	82	e.				5 k	5 ks	e.	e.	0	0	fair	J. A. Racker.
Buenaventura, U. S. C.	29.95	760.7	29.97	761.2	77	25.0	90	n.	2	0.9			10 ks		n.	1.90	48.3	cloudy	J. I. Plume.
Guadeloupe, W. I.	29.94	760.5	29.96	761.0	73	22.8	90	e.				3 k	2 ks			0	0		B. Bigar.
Havana, Cuba, W. I.	30.12	765.0	30.17	766.3	73	22.8	76	se.	1.2	0.5		0	1 ks	calm		0	0	clear	A. Van Caneghem.
Kingston, Jamaica, W. I.	30.04	763.0	30.05	763.3	70.0	21.1	92	n.	1	0.4		0	0			0	0	fine	Robert Johnston.
Navassa	30.06	763.5	30.14	765.5	76	24.4	76	ne.	16	7.2		5 k	5 s	e.	ne.	0	0		F. M. Everett.
Paramaribo, S. A.	30.05	763.3	30.05	763.3	76	24.4	86	e.			3	4 c	5 k	e.	e.	0	0	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.46	748.3	29.92	760.0	81	27.2	86	calm			0	2 ck	6 ks	calm	calm	0.13	3.3	cloudy	Miss Flora A. Nichols.
Rivas											6	7 cs	0	e.		inap.	inap.		Robert Mason.
Santiago de Cuba, W. I.	30.09	764.3	30.12	765.0	77	25.0	94	ne.											
York Factory, B. A.	29.66	753.4	29.72	754.9	18.0	— 7.8	65	n.	6	2.7		0	2 ks		n.	0	0	fair	
							92	s.	18	8.0		4 k	2 s	s.	s.	0	0	threatening	W. Wood.

STATIONS AND VESSELS.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
BRITISH NAVAL.																		
H. M. S. Agincourt, N. 39° 53′, E. 4° 30′	30.47	773.9	62	16.7	88	ese.			2		0							blue sky.
H. M. S. Albatross, Canton, China	30.04	763.0	72	22.2		s.			2		5	s.						d. clouds.
H. M. S. Alert, S. 5° 06′, E. 53° 19′	29.90	759.4	84	28.9	78	e.			3		7							d. clouds.
H. M. S. Alexandra, Malta, Mediterranean	30.39	771.9	65	18.3	73	n.			1		1							blue sky.
H. M. S. Bacchante, Alexandria, Egypt	29.97	761.2	62	16.7	66	w.			3–5		4	w.						d. clouds.
H. M. S. Boadicea, S. 33° 54′, E. 18° 26′	30.06	763.5	64	17.8	70	wnw.			1		2	sw.						d. clouds.
H. M. S. Champion, S. 33° 10′, W. 75° 00′	29.96	761.0	63	17.2	83	s.			2		2					2	sw.	d. clouds.
H. M. S. Cleopatra, N. 17° 32′ E. 40° 28′	29.86	758.4	79	26.1	95	sse.			1		6	calm				2	sse.	d. clouds.
H. M. S. Comus, Labuan Island, Borneo	29.93	760.2	79	26.1	100	nnw.			1		3							d. clouds.
H. M. S. Diamond, S. 36° 38′, E. 101° 32′	30.31	769.9	61	16.1	88	ene.			3–4		4	ene.				1	ene.	d. clouds.
H. M. S. Dido, N. 14° 44′, W. 61° 11′	30.06	763.5	79	26.1		calm			0		0							blue sky.
H. M. Dock-Yard, Bermuda, W. I.	29.85	758.2	61	16.1	88	sse.			6		10	sse.						raining.
H. M. S. Dwarf, S. 34° 54′, W. 56° 10′	29.88	758.9	69	20.6	84	w.			1–2		10					1	w.	overcast.
H. M. S. Eclipse, S. 16° 00′, E. 45° 28′	29.96	761.0	84	28.9		wsw.			1–2		4							raining.
H. M. S. Euryalus, N. 29° 33′ E. 32° 35′	29.98	761.5	62	16.7	61	w.			3		7	wnw.				1	wnw.	d. clouds.
H. M. S. Flying Fish, N. 34° 41′, E. 135° 12′	30.09	764.3	53	11.7	90	calm			0		4							misty.
H. M. S. Gannet, S. 33° 37′, W. 78° 49′	29.99	761.7	69	20.6	79	calm			0		5					2	wsw.	d. clouds.
H. M. S. Garnet, S. 49° 07′ W. 60° 31′	29.70	754.4	48	8.9	85	ese.			5		9					5	se.	squally.
H. M. S. Inconstant, S. 19° 00′, E. 86° 00′	29.98	761.5	79	26.1	78	se.			3		5	se.				3	se.	d. clouds.
H. M. S. Iron Duke, N. 22° 16′, E. 114° 10′	30.08	764.0	67	19.4	100	ne.			1		4	ne.						d. clouds.
H. M. S. Lark, S. 36° 34′, E. 175° 06′	30.13	765.3	68.3	20.2		ene.			3		10					3	ne.	showery.
H. M. S. Liffey, Coquimbo, Chili	29.87	758.7	61	16.1		calm			0		10							overcast.
H. M. S. Magpie, N. 25° 59′, E. 119° 27′	30.04	763.0	61.9	16.6	74	e.			1–2		0							misty.
H. M. S. Malabar, N. 29° 17′, E. 32° 40′	29.92	760.0	62	16.7	88	ssw.			1		6					1	wsw.	showery.
H. M. S. Orontes, N. 12° 15′ E. 50° 11′	29.84	757.9	80.5	26.9	88	ene.			3		0					1	ne	blue sky.
H. M. S. Rambler, Landano, Lower Guinea	29.90	759.4	82	27.8		s.			3		7	s.				3	ssw.	threatening
H. M. S. Ready, Muscat, Arabia	29.84	757.9	81.1	27.3		calm			0		3							d. clouds.
H. M. S. Rocket, Vancouver Id., B. C.	29.59	751.6	37	2.8	80	wsw.			3		10							raining.
H. M. S. Tamar, N. 37° 02′, E. 3° 11′	30.43	772.9	66.5	19.2	94	ene.			2		0							blue sky.
H. M. S. Tenedos, N. 19° 49′ W. 73° 30′	30.08	764.0	76.5	24.7	74	ne.			4		1					2	ne.	blue sky.
H. M. S. Thalia, S. 13° 53′, W. 29° 30′	30.07	763.8	82	27.8		e.			5		1					2	ese.	blue sky.
H. M. S. Triumph, S. 33° 49′, W. 79° 15′	30.04	763.0	69	20.6	84	nnw.			1–2		3	wsw.				4	wsw.	d. clouds.
H. M. S. Woodlark, Bombay, India	29.81	757.2	85.5	29.7	58	nw.			4–5		0							misty.
PORTUGUESE NAVAL.																		
Quanza, Santago, Cape Verde Islands	30.02	762.6	84.2	29.0	55	ne.			2		5	sw.				2	ne.	foggy.
SWEDISH NAVAL.																		
Balder, N. 31° 57′ W. 80° 24′	30.15	765.8	58.3	14.6	90	ene.			6		0							misty.
UNITED STATES NAVAL.																		
Navy Yard, Pensacola, Fla	30.09	764.3	65	18.3	94	ne.	2	0.9			10			0.19	4.8			misty.
Navy Yard, Portsmouth, N. H.	30.34	770.6	28	— 2.2	?	ne.	14	6.3			2		ne.	0	0			fair.
Naval Hospital, Yokohama, Japan	29.73	755.1	54	12.2	36	nw.			3		0			0	0			clear.
Adams, Callao, Peru	29.65	753.1	69	20.6	95	se.			0–1		2					gr'd		clear.
Alaska, Valparaiso, Chili	29.93	760.2	61	16.1	82	ssw.			1		5			0	0	sm'h		fair.
Alert, Manila, Phillippine Islands*	29.86	758.4	80	26.7	74	ese.			3		2		e.	0	0	sm'h		clear.
Alliance, N. 17° 40′, W. 68° 30′	30.02	762.5	75	23.9	86	e.			2		2			light	light	sm'h		clear.
Ashuelot, Chefoo, China	30.02	762 5	49	9.4	44	s.			2		2		calm					fair.
Brooklyn, S. 43° 18′ W. 56° 30′	29.33	745.0	54	12.2	100	ssw.	20	8.9			10		ssw.	0.34	8.6	rg'h	ssw.	rainy.
Colorado, New York, N. Y.	30.33	770.4	33	0.6		nnw.	5	2.2			0			0	0			hazy.
Enterprise, Santa, St. Lucia, W. I.*	30.00	762.0	77	25.0	91	e.			2		2							clear.
Essex, N. 11° 35′, W. 19° 56′	30.01	762.2	77	25.0	82	ne.					2		ne.			sm'h	ne.	clear.
Franklin, Norfolk, Va.	30.31	769.9	40	4.4	82	nnw.	15	6.7			8		nnw.	0	0			fair.
Galena, Palermo, Sicily	30.42	772.7	65	18.3	78	nne.			1		0					sm'h		clear.
Independence, Navy Yard, Mare Island, Cal.	29.91	759.7	46	7.8	84	nw.			1		0			0.08	2.0			clear.
Kearsarge, N. 26° 38′, W. 87° 33′	30.14	765.5	75	23.9	72	se.			1		2		calm			sm'h		fair.
Lackawanna, Valparaiso, Chili†	30.07	763.8	60	15.6	100	calm			0		0							clear.
Lancaster, N. 37° 45′ E. 24° 19′*	30.11	764.8	51	10.6	65	nne.			3–4		2		ne.	0	0	mod.	e.	fair.
Marion, S. 33° 54′, E. 18° 24′*†	30.11	764.8	65	18.3	100	nw.			1		2		nw.			sm'h		clear.
Michigan, Erie, Pa.	30.36	771.1	26	— 3.3	100	ese.			2		0							clear.
Minnesota, Newport, R. I.	30.25	768.3	33	0.6	80	n.	17	7.6			8		n.					cloudy.
Monocacy, Yokohama, Japan	29.89	759.2	51	10.6	100	wnw.			2		0							clear.
Nipsic, N. 36° 39′ W. 8° 26′	30.38	771.6	64	17.8	62	e.			4		0					mod.	e.	clear.
Onward, Callao, Peru†	30.01	762.2	67	19.4	95	calm			0		2		n.			long	w.	clear.
Palos, Nagasaki, Japan	30.17	766.3	56	13.3	94	n			1		0							clear.
Passaic, Washington, D. C.	30.37	771.4	36	2.2	80	nw.			1		10							cloudy.
Pensacola, S. 14° 53′ W. 76° 01′	29.93	760.2	70	21.1	80	sw.			2		2			0	0	mod.	s.	fair.
Powhatan, St. Lucia, W. I.	30.05	763.3	80	26.7	74	e.			1		2		e.					clear.
Quinnebaug, N. 38° 22′, E. 26° 10′	30.08	764.0	61	16.1	50	n.			5		2		n.			sm'h		fair.
Ranger, N. 17° 58′ W. 102° 25′*	29.90	759.4	72	22.2	85	ne.			2		2		calm	0	0	sm'h		clear.
Richmond, Yokohama, Japan*	29.83	757.3	55	12.8	50	nw.			1		2			0	0			fair.
Shenandoah, N. 11° 30′, W. 51° 33′*	30.12	765.0	77	25.0	77	ne.			3		5		ne.			sm'h		clear.
St. Louis, League Island	30.57	776.5	32	0.0	100	n.	7	3.1			0			0	0			clear.
Swatara, N. 33° 33′, E. 135° 24′*	29.75	755.6	62	16.7	66	wsw.			4		2		w.			mod.	w.	fair.
Tennessee, New Orleans, La*†	30.15	765.8	65	18.3	100	calm	0	0			0			0	0			foggy.
Tuscarora, Key West, Florida†	30.25	768.3	73	22.8	81	n.			1		2		ne.					fair.
Wabash, Boston, Mass.	30.31	769.9	30	— 1.1		n.	4	1.8			8		n.	0	0			cloudy.
Wachusetts, Sitka, Alaska	30.01	762.2	17	— 8.3		nw.			5		0			0	0	sm'h		clear.
Wyoming, Port Royal, S. C.	30.21	767.3	53	11.7	80	ene.	22	9.8			2		calm	0	0			clear.
Yantic, N. 27° 43′, W. 88° 59′*	30.08	764.0	71	21.7	95	sse.			3		2					sm'h		clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Peruvian, N. 51° 07′ W. 14° 46′*	30.14	765.5	48	8.9	.....	w.	.....	.....	4	.....	3	.....	w	0	0	mod.	sw.	clear.
S. S. Polynesian, N. 42° 31′, W. 50° 54′*	30.24	768.1	28	—2.2	.....	nnw.	.....	.....	2	.....	10	.....	w.	0	0	long	nnw.	overcast.
S. S. Prussian, N. 49° 20′, W. 31° 15′*	29.87	758.7	55	12.8	.....	sw.	.....	.....	7	.....	9	.....	s.	.....	.....	hv'y	sw.	hazy.
S. S. Scandinavian, N. 42° 57′ W. 49° 19′*	30.41	772.4	31	—0.6	.....	n.	.....	.....	4	.....	10	.....	w.	0	0	mod.	n.	d. clouds.
S. S. Waldensian, Glasgow, Scotland′*	30.48	774 2	50	10.0	.....	sw.	.....	.....	4	.....	2?	.....	sw.	0	0	.....	.....	cloudy?.
AMERICAN STEAMSHIP COMPANY.																		
S. S. British Crown, N. 48° 21′, W. 31° 04′†	30.05	763.3	54	12.2	.....	sse.	.....	.....	6	.....	8	.....	sw.	0	0	r'gh	ssw.	cloudy.
S. S. Illinois, Liverpool, Eng.	30.56	776.2	56	13.3	94	w.	.....	.....	1	.....	1	.....	n.	.....	.....	.....	.....	very fine.
S. S. Indiana, N. 39° 06′, W. 65° 56′†	29.84	757.9	56	13.3	94	se.	.....	.....	6	.....	10	.....	.....	hv'y	h'vy	h'vy	e.	overcast.
S. S. Ohio, Philadelphia, Penn.	.....	.....	32	0.0	90	n.	.....	.....	4	.....	0	.....	.....	.....	.....	.....	.....	clear.
ANCHOR LINE.																		
S. S. Devonia, N. 40° 50′ W. 69° 00′*†	30.06	763.5	40	4.4	.....	n.	.....	.....	3	.....	9?	.....	n.	.....	.....	cross	nne.	clear.?
S. S. Utopia, N. 34° 25′, W. 19° 50′*†	30.28	769.1	67	19.4	89	e.	.....	.....	1	.....	9?	.....	ne.	1 h'r	1 h'r	sm'h	ne.	clear.?
ATLAS LINE.																		
S. S. Alsa, Savanilla, U. S. C.†	29.98	761.5	78	25.6	78	ne.	.....	.....	3	.....	c	.....	.....	0	0	.....	.....	fine.
S. S. Alvo, N. 26° 37′, W. 74° 10′	30.15	765.8	71	21.7	.....	wsw.	.....	.....	3	.....	2	.....	wnw.	0	0	mod.	wnw	squally.
S. S. Arden, N. 33° 02′, W. 70° 20′	.....	.....	64	17.8	.....	ene.	.....	.....	3	.....	5?	.....	nne.	.....	.....	mod.	ene.	cloudy.?
S. S. Athos, N 28° 31′, W. 74° 30′	30.16	766.1	.....	.....	.....	se.	.....	.....	1	.....	2	.....	e.	0	0	mod.	e.	clear.
BOSTON AND HALIFAX LINE.																		
S. S. Carroll, Halifax, N. S.†	30.46	773.7	.....	.....	.....	ene.	.....	.....	.....	.....	.....	.....	.....	snow	snow	.....	.....	snowing.
BRITISH METEOROLOGICAL OFFICE.																		
S. Auckland, N. 10° 33′, W. 38° 43′	30.05	763.3	76	24.4	.....	ne.	.....	.....	4	.....	2	.....	.....	.....	.....	.....	.....	blue sky.
S. Baroda, S. 45° 08′, E. 68° 50′	29.98	761.5	43.5	6.4	92	ssw.	.....	.....	5	.....	7	.....	.....	.....	.....	.....	.....	d. clouds.
British Merchant, N. 18° 19′, E. 90° 15′	29.89	759.2	80.5	26.9	82	s.	.....	.....	2	.....	6	.....	.....	.....	.....	.....	.....	misty.
Bk. Caldew, N. 8° 04′, W. 34° 40′	30.04	763.0	78	25.6	.....	nne.	.....	.....	5	.....	6	.....	.....	.....	.....	.....	.....	d. clouds.
Bk. Commewyne, N. 24° 30′, W. 63° 54′	30.08	764.0	70.9	21.6	64	e.	.....	.....	2	.....	8	.....	.....	.....	.....	.....	.....	d. clouds.
Bk. Coppename, N. 45° 02′, W. 26° 05′	30.26	768.6	58	14.4	78	sw.	.....	.....	4	.....	9	.....	.....	.....	.....	.....	.....	d. clouds.
S. S. Gordon Castle, N. 6° 00′, E. 94° 36′	29.86	758.4	84	28.9	81	ene.	.....	.....	4	.....	2	.....	.....	.....	.....	.....	.....	d. clouds.
Bg. Hermine, S. 15° 14′, W. 28° 45′	30.09	764.3	80	26.7	84	one.	.....	.....	4	.....	2	.....	.....	.....	.....	.....	.....	d. clouds.
S. S. Humboldt, N. 49° 58′, W. 23° 00′	30.21	767.3	54	12.2	93	sse.	.....	.....	5	.....	5	.....	.....	.....	.....	.....	.....	misty.
S. Lochee, N. 29° 56′, W. 42° 00′	30.16	766.1	69.8	21.0	72	sse.	.....	.....	3	.....	5	.....	.....	.....	.....	.....	.....	d. clouds.
S. S. Minho, N. 27° 25′, W. 16° 45′	30.28	769.1	67.2	19.6	84	ne.	.....	.....	5	.....	6	.....	.....	.....	.....	.....	.....	misty.
CROMWELL LINE.																		
S. S. Hudson, N. 27° 39′, W. 87° 25′*†	30.15	765.8	75	23.9	.....	calm	.....	.....	0	.....	1	.....	.....	0	0	mod.	se.	fair.
S. S. New Orleans, N. 24° 31′ W. 83° 00′*†	30.18	768.6	69	20.6	.....	ne.	.....	.....	.....	.....	2	.....	ne.	.....	.....	sm'h	.....	clear.
CUNARD LINE.																		
S. S. Gallia, N. 45° 03′, W. 43° 48′	30.37	771.4	38	3.3	100	n.	.....	.....	6	.....	5	.....	nw.	0	0	high	con.	fair.
S. S. Scythia, N. 40° 04′, W. 64° 07′†	29.92	760.0	57	13.9	93	ese.	.....	.....	6	.....	10	.....	ese.	3 h'r	3 h'r	r'gh	ese.	heavy rain.
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. Canada, Havre, France.	30.49	774.4	51.8	11.0	.....	nw.	.....	.....	1	.....	0	.....	.....	0	0	.....	.....	clear.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Bohemia, N. 41° 41′ W. 52° 21′*†	30.26	768.6	.....	.....	.....	se.	.....	.....	2	.....	7	.....	se.	0	0	sm'h	se.	fine.
S. S. Gellert, N. 40° 20′, W. 70° 36′	30.10	764.5	33	0.6	.....	n.	.....	.....	6	.....	10	.....	n.	0	0	r'gh	ne.	cloudy.
S. S. Lessing, Hamburg, Germany.	.....	.....	58	14.4	.....	w.	.....	.....	6	.....	5?	.....	w.	0	0	.....	.....	cloudy.?
S. S. Silesia, N. 48° 38′, W. 24° 07′*†	30.27	768.8	56.3	13.5	.....	sse.	.....	.....	4	.....	5	.....	s.	0	0	4	s.	fair.
S. S. Wieland, N. 44° 53′, W. 40° 49′	30.43	772.9	46	7.8	.....	nw.	.....	.....	6	.....	5	.....	nw.	4 h'r	4 h'r	5	nw.	
JOHNSTON LINE.																		
S. S. Thanemore, N. 52° 03′, W. 180 11′	30.23	767.8	.....	.....	.....	s.	.....	.....	5	.....	8	.....	s.	sli't	sli't	.....	w.	cloudy.
MALLORY LINE.																		
S. S. Colorado, N. 25° 39′, W. 85° 10′†	30.08	764.0	69	20.6	.....	w.	.....	.....	1	.....	0	.....	.....	0	0	small	ne.	clear.
MERCHANTS' EXPRESS LINE.																		
S. S. Freja, N. 40° 19′, W. 53° 30′†	30.45	773 4	42	5.6	74	e.	.....	.....	5	.....	10	.....	e.	0	0	sm'h	nw.	overcast.
S. S. Hermod, N. 48° 32′, W. 15° 40′*†	30.14	765.5	57.2	14.0	.....	ese.	.....	.....	1	.....	6	.....	ese.	0	0	mod.	nw.	cloudy.
NATIONAL LINE.																		
S. S. Erin, N. 40° 46′, W. 67° 36′	29.96	761.0	38	3.3	.....	nne.	.....	.....	8	.....	10	.....	ne.	0	0	r'gh	ne.	
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Niagara, Havana, Cuba, W. I.†	30.24	768.1	78	25.6	.....	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	.....	clear.
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Amsterdam, N. 42° 31′, W. 50° 12′*†	30.62	777.7	46	7.8	.....	nnw.	.....	.....	4	.....	.....	.....	.....	.....	.....	.....	wsw.	cloudy.
S. S. Alvena, St. John's, W. I*†	29.98	761.5	73	22.8	.....	calm	.....	.....	0	.....	.....	.....	.....	.....	.....	.....	.....	cloudy.
S. S. City of Washington, N. 37° 45′, W. 74° 35′*†	30.30	769.6	55	12.8	.....	n.	.....	.....	3	.....	.....	.....	.....	.....	.....	.....	sw.	light rain.
S. S. Maas, N. 47 21′ W. 29° 27*.	29.94	760.5	54	12.2	.....	wsw.	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	w.	rainy.
S. S. Olbers, N. 16° 04′ W. 25° 30*†	30.10	764.5	73	22.8	.....	ne.	.....	.....	4–6	.....	.....	.....	.....	.....	.....	.....	ne.	fine.
NORTH GERMAN LLOYD																		
S. S. Elbe, N. 49° 40′ W. 7° 50′	30.51	774.9	51.8	11.0	.....	se.	.....	.....	3	.....	9	.....	se.	0	0	mod.	se.	foggy.
S. S. Hermann, N. 37° 00′, W. 75° 16′*†	30.34	770.6	37.4	3.0	.....	n.	.....	.....	6	.....	6	.....	n.	0	0	mod	ne.	misty.
S. S. Kronprinz F. Wilhelm, N. 42° 02′, W. 60° 22′	30.27	768.8	37.4	3.0	.....	se.	.....	.....	3–4	.....	9	.....	s.	0	0	4	s.	cloudy.
S. S. Main, N. 46° 21′, W. 34° 34 *	30.07	763.8	53.6	12.0	.....	w.	.....	.....	5	.....	6	.....	w.	0	0	high	w.	cloudy.
S. S. Mosel, N. 42° 10′, W. 57° 26′	30.41	772.4	39.9	4.4	.....	se.	.....	.....	4	.....	6	.....	se.	0	0	sm'h	se.	fair.
S. S. Nurnburg, S. 6° 22′, W. 26° 55′*	30.00	762.0	82.4	28.0	77	se.	.....	.....	5	.....	3	.....	se.	1 h'r	1 h'r	4	se.	fair.
S. S. Oder, New York, N. Y.	30.35	770.9	34.2	1.2	.....	n.	.....	.....	3	.....	1	.....	n.	0	0	.....	.....	fair.
S. S. Ohio, Bremerhaven, Germany.	30.53	775.4	.....	.....	.....	w.	.....	.....	4	.....	0	.....	.....	0	0	.....	.....	clear.
S. S. Salier, N 44° 49′, W. 45° 36′	30.42	772.7	32.9	0.5	.....	nne.	.....	.....	6	.....	10	.....	nne.	3 h'r	3 h'r	mod.	n.	fair.
S. S. Strassburg, N. 45° 45′, W. 38° 56′	30.18	766.6	48.0	8.9	85	nnw.	.....	.....	6	.....	6	.....	nnw.	10 h'r	10 h'r	r'gh	nnw.	cloudy.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Belgic N. 33° 36′, E. 136° 40′†	30.05	763.3	61	16.1	66	n.	.....	.....	6	.....	0	.....	.....	0	0	mod.	nw.	clear.
S. S. Gaelic, N. 29° 12′, E. 127° 07′†	30.11	764.8	69	20.6	47	wsw.	.....	.....	2	.....	2	.....	w.	.....	.....	sm'h	s.	clear.
S. S. Oceanic, N. 37° 24′ W. 124° 20′*	30.09	764.3	49	9.4	85	wnw.	.....	.....	4	.....	2	.....	w.	.....	.....	3	se.	fine.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, Savannah, Georgia†	30.27	768.8	.....	.....	.....	e.	.....	.....	2	.....	4	.....	e.	0	0	.....	.....	smoky.
S. S. Seminole, N. 32° 45′, W. 79° 15′†	30.27	768.8	54	12.2	74	ne.	.....	.....	3	.....	0	.....	.....	0	0	mod.	ne.	clear.
OREGON IMPROVEMENT COMPANY.																		
S. S. Mississippi, Seattle, Wash. Ter.†	29.67	753.6	41	5.0	82	sse.	.....	.....	4	.....	10	.....	s.	.....	.....	.....	.....	rain & snow.
S. S. Willamette, Seattle, Wash. Ter.*†	29.64	752.8	40	4.4	91	s.	.....	.....	4	.....	7	.....	s.	0.5	13.	.....	.....	d. clouds.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Columbia, N. 45° 45′, W. 124° 15†.	29.71	754.6	42	5.6	83	sw.	.....	.....	4	.....	10	.....	w.	0	0	mod.	sw.	squally.
S. S. Oregon, San Francisco, Calf.	30.03	762 7	45	7.2	92	n.	.....	.....	1	.....	5	.....	n.	.....	.....	.....	.....	hazy.
PACIFIC C ANT STEAMSHIP COMPANY.																		
S. S. Ancon, N. 34° 24′, W. 120° 26′†	30.06	763 5	48	8.9	78	n.	.....	.....	2	.....	0	.....	.....	.....	.....	mod.	sw.	clear.
S. S. Idaho, Tacoma, Wash. Ter.†	29.62	752.3	40	4.4	?	e.	.....	.....	2	.....	10	.....	e.	.....	.....	.....	.....	rainy.
S. S. Orizaba, N. 37° 10′, W. 122° 23′†	30.05	763.3	52	11.1	73	nw.	.....	.....	2	.....	.....	.....	nw.	0	0	light	nw.	clear.
S. S. State of California, Astoria, Oregon†	29.73	755.1	40	4.4	73	ese.	.....	.....	4	.....	10	.....	sw.	2 h'r	2 h'r	.....	.....	cloudy.
S. S. Victoria, N. 41° 30′, W. 124° 50′†	29.91	759.8	46	7.8	84	sw.	.....	.....	3	.....	10	.....	.....	.....	.....	light	w.	cloudy.
PACIFIC MAIL STEAMSHIP CO.																		
S. S. Australia, Sydney, N. S. W.	29.80	756.9	65	18.3	94	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	.....	clear.
S. S. City of New York, N. 27° 20′ W. 142° —′†	30.21	767.3	63	17.2	83	ene.	.....	.....	3	.....	10	.....	.....	0	0	mod.	ne.	cloudy.
S. S. City of Pekin, Mazatlan, Mexico†	29.79	756.7	70	21.1	90	e.	.....	.....	2	.....	.....	.....	.....	0	0	sm'h	.....	hazy.
S. S. City of Rio de Janeiro, N. 14° 40′, W. 89° 55′†	30.16	766.1	81	27.2	78	nw.	.....	.....	2	.....	5	.....	nw.	0	0	long	nw.	fair.
S. S. City of Sydney, Sydney, N. S. W.†	29.94	760.5	74	23.3	72	ene.	.....	.....	4	.....	2	.....	sw.	0	0	sm'h	.....	clear.
S. S. City of Tokio, N. 34° 15′, W. 177° 20′†	29.73	755.1	.....	.....	.....	nnw.	.....	.....	9	.....	10	.....	nw.	10 h'r	10 h'r	high	nw.	raining.
S. S. Colima, N. 26° 52′ W. 114° 19′†	29.98	761.5	58	14.4	82	wnw.	.....	.....	6	.....	7	.....	nw.	0	0	mod.	nw.	cloudy.
S. S. Colon, N. 12° 00′, W. 77° 40′†	30.03	762.7	80	26.7	.....	ne.	.....	.....	4	.....	5	.....	n.	.....	.....	mod.	nne.	fair.
S. S. South Carolina, Panama, Panama†	29.99	761.7	78	25.6	78	ne.	.....	.....	5	.....	5	.....	ne.	0	0	mod.	nne.	fine.
S. S. Zelandia, N. 29° 15′ W. 143° 33′	30.22	767.6	59	15.0	83	one.	.....	.....	3	.....	10	.....	e.	.....	.....	mod.	nne.	cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
QUEBEC S. S. COMPANY.																		
S. S. Muriel, N 35° 50′, W. 70° 50′						n.			5		8			0	0	r'gh	ne.	fair.
S. S. Bermuda, N. 29° 00′, W. 69° 00′†	30.22	767.6	60	15.6		nnw.			5		2		nnw.	0	0	long	nnw.	fine.
RED STAR LINE.																		
S. S. Nederland, N. 43° 04′, W. 40° 32′*†	30.76	781.3	47	8.3		wsw.			4		10		nnw.	sh'rs	shr's	cross	nnw.	cloudy.
S. S. Rhynland, N 40° 23′, W. 63° 09′	30.19	766.8	54	12.2	87	ese.			6		10		ese.	0.3	8.	high	ese.	rainy.
S. S. Vaderland, N. 46° 59′, W. 31° 11°	29.95	760.7	56	13.3		s.			4		10		wsw.	0	0	long	wsw.	overcast.
S. S. Waesland, Scheldt River, Germany	30.61	777.5	50	10.0		calm					0			0	0			hazy.
ROTTERDAM LINE.																		
S. S. W. A. Scholten, Rotterdam, Holland*	30.20	767.1	63.2	17.3	89	nw.			5		2		nw.	0	0			
THINGVALLA LINE.																		
S. S. Thingvalla, N. 59° 14′ W. 0° 14′†	30.45	773.4	47.3	8.5		se.			2		10		se.	0	0	mod.	se.	covered.
WHITE STAR LINE.																		
S. S. Celtic, N. 41° 36′ W. 53° 52′.*†	30.30	769.6	36	2.2	80	ne.			2		10		n.	2 h'r	2 h'r	mod.	n.	cloudy.
S. S. Germanic, N. 40° 08?, W. 39° 09′*†	30.11	764.8	53	11.7		sw.			5		10		sw.	shr's	shr's	r'gh	wsw.	misty.
WILSON LINE.																		
S. S. Romano, N. 46° 34′ W. 25′ 00′*†	30.25	768.3	56	13.3		sse.			3		2		sse.	0	0	sm'h		clear.
S. S. Salerno, N. 40° 24′ W. 71° 40′	30.20	767.1	36	2.2		nne.			6–7		10		nne.			mod.	nne.	sleeting.
WINSOR LINE.																		
S. S. Catherine Whiting, Off Block Island, R I †	30.31	769.9				nne.							ne.			large	ne.	
MISCELLANEOUS.																		
Sch. Addie Fuller, Cedar Keys, Florida†	30.28	769.1	62	16.7	94	nne.			3		10 s		ene.	0.03	0.8			cloudy.
Bk. Adelaide, S 19° 05′, W. 38° 06′*†	30.13	765.3	81	27.2		nne.			4		1		n.	2 h'r	2 h'r	mod.	ne.	clear.
Sch. Annie M. Law, N. 38° 45′ W. 73° 24′*†	30.30	769.6	41	5.0	65	ne.			4		10			12 h'r	12h'r	cross	nne.	
Sch'r Annie M. Smull, S. 10° 36′ W. 34° —′*†	30.00	762 0	84	28.9		ese.							ese.	0	0		se,	clear.
Bk. Bergenseren, N. 34° 50′ W. 35° 05′†	30.19	766.8				sw.			2		0			0	0	1	nw,	clear.
Bk. Celestria, N. 22° 33′, W. 37° 28′*†	30.18	766.6				ese.			3		0			0	0	sm'h		fine.
Bk. E. L. Pettingill, S. 26° 38′, W. 91° 51′†	30.20	767.1				ne.			2		5?		e.	0	0	sm'h		overcast.†
S Enoch Train, Bremerhaven, Germany*	30.39	771.9				wnw			2		0			0	0			clear.
U.S.F.C.S.S.Fish Hawk, Annapolis, Md.†	30.42	772.7	39	3.9	82	nnw.			2		6		nw.	0	0			fair.
Bk Freya, Baltimore, Md			42	5.6		n.			1		0			0	0			fair.
S. Grecian, N. 4° 00′ W. 26° 40′*†	30.03	762.7	84	28.9		calm			0		0			0	0	sm'h		clear.
Bk. Geo. Booth, S. 36° 20′, W. 0° 30′*†	30.10	764.5				wsw.			5		10			driz	driz	hv'y	wsw.	
Bk. Granville, S. 13° 41′, W. 33° 40′*†	30.20	767.1				e.			3				e.	rain	rain	mod.	se.	clear.
S Hedwig, N. 53° 43′, E. 8° 15′	30.52	775 1	53.1	11.7	84	w.			5		10		w.	0	0	4	w.	hazy.
Schr. Henry Denison, Georgetown, Brit. Guiana†	29.98	761.5				ne.			4		3		ne,	0	0			fair.
Bk. Johanne Auguste, S. 9° 22′, E. 87° 08′*†	29.70	754.4				n.			1		6		wnw.	shr's	sh'rs	long	sse.	threatening.
Bg. John Wesley, N. 35° 59′, W. 73° 31′†	30.35	770.9	51	10.6		nne.			5		8		ne.	0	0	long	ne,	cloudy.
Bkt. Josephine, N. 35 08′, W. 69° 45′*†	29.98	761.5	61	16.1	71	wnw			6		10		nw.	3 h'r	3 h'r	h'vy	nw.	cloudy.
Bk. Kate Cann, N. 49° 12′, W. 12° 48′						sw.			4		8		sw.	0	0	sm'h	w.	cloudy.
Bkt. Kryolith, N. 42° 22′, W. 23° 10′*†	30.35	770.9				s.			3		5		s.	0	0	light	ese.	clear.
S. S. Lamperis, N. 49° 47′ W. 5° 34′*†	30.54	775.7	55.0	12.8	87	sse.			1		0					sm'h	nw.	
Schr. Maggie Abbott, Baracoa, Cuba, W. I.*†	30.10	764.5				nne.			3				n.	c	0			clear.
S. S. Malabar, N. 43° 21′, W. 17° 30′*†	30.42	772.7				sse.			2					0	0	sm'h		cloudy.
Bk Peppina, N. 38° 57′. E 7° 01′†	30.35	770.9	66	18.9	84	wsw.			1		0					sm'h		clear.
Bk Pilgrim, S. 46° 45′. E. 75° 50′*†	29.90	759.4				n.			4				nw.	sh'rs	sh'rs	long	w.	cloudy.
Bkt. Spotless, N. 31° 25′, W. 53° 23′*†	30.20	767 1				e.							ne.			mod.	ne.	fine.
Bk. Stella, S. 49° 42′, W. 63° 30′*	29.75	755.6	45.5	7.5	92	sse.			2		3		nnw.	0	0	sm'h	s.	d. clouds.
Bk. Sunbeam, N. 33° 17′, W. 73° 07′*†	30.06	763 5	59	15.0	70	nnw.			7		10		n.	3 h'r	3 h'r	r'gh	n.	cloudy.
Bg. Wauburn, S. 15° 55′, W. 5° 42′*†	30.10	764.5				se.			5									
S. Wm. Woodbury. Bremerhaven. Germany*†	30.22	767.6	53	11.7	48	wnw.			4		1		w.					



Data, as appearing in the International Bulletin of similar date.

Isobars in *black* exhibit atmospheric pressure at sea-level, and are charted from data as reported by the several observers.

Isotherms in *red* exhibit temperature of air, similarly charted.

Broken or dotted lines indicate that the lines so broken are doubtful.

Arrows, when charted, fly with the wind and exhibit wind-direction and force.

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W. B. Hazen

Brig. & Bvt. Maj. Gen'l.
Chief Signal Officer. U. S. A.

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INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON MARCH 18, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours	.....	.....	30.39	771.8	67.3	19.6	83	W.	.....	.....	2	.....	0	.....	.....	0	0	clear	Moiroud.
Algiers	.....	.....	30.43	772.8	64.0	17.8	63	wsw.	.....	.....	2	.....	0	.....	.....	0	0	clear	Nicolas.
La Calle	.....	.....	30.34	770.5	64.4	18.0	80	sse.	.....	.....	1	.....	0	.....	.....	0	0	clear	Fonfrède.
Tunis	.....	.....	30.33	770.3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.36	771.1	64.9	18.3	57	sw.	.....	.....	3	.....	2	.....	.....	0.323	8.2	fair	Dumas.
Tebessa	.....	.....	30.43	772.9	63.3	17.4	49	nnw.	.....	.....	1	.....	2	.....	.....	0	0	fair	Derché.
Geriville	.....	.....	.....	.....	65.8	18.8	43	sw.	.....	.....	2	.....	7	.....	.....	0.051	1.3	very cloudy	Lonchamp.
Laghouat	.....	.....	30.43	772.9	65.1	18.4	34	s.	.....	.....	2	.....	2	.....	.....	0	0	fair	Herbin.
Biskra	.....	.....	30.38	771.6	76.3	24.6	29	sw.	.....	.....	1	.....	0	.....	.....	0	0	clear	Malau.
Australian.																			
Melbourne, Victoria	29.96	761.0	30.05	763.3	59.0	15.0	66	sw.	6	2.7	.....	.....	2	.....	.....	0.13	3.3	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.78	756.6	30.34	770.5	63.0	17.2	36	se.	.....	.....	1	.....	0	.....	.....	0	0	.....	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.58	751.2	30.36	771.2	46.4	8.0	52	nw.	6.9	3.1	.....	.....	2	.....	.....	0	0	.....	Dr. Wierzbiski.
Eperies	29.37	746.1	30.26	768 7	52.2	11.2	37	nw.	.....	.....	2	0	0	.....	.....	0	0	.....	Julius Mikolik.
Gratz	29.08	738.7	30.33	770.3	59.9	15.5	43	s.	.....	.....	2	.....	0	.....	.....	0	0	.....	Andreas Rospini.
Hermannstadt	28.77	730.8	30.21	767.3	57.6	14.2	90	n.	.....	.....	3	.....	1	.....	.....	0	0	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.94	735.0	30.28	769.1	57.4	14.1	55	e.	.....	.....	3	.....	0	.....	.....	0	0	clear	The Staff.
Lemberg	29.25	743.0	30.27	768.9	42.1	5.6	40	ne.	.....	.....	2	.....	2	.....	.....	0	0	.....	Dr. T. Stanecki.
Pola	30.19	766.9	30.31	769.8	63.5	17.5	66	ese.	.....	.....	1	.....	0	.....	.....	0	0	.....	I. R. Hydrographic Office.
Szathmar	29.79	756.7	30.26	768.6	50.7	10.4	39	nw.	.....	.....	2	.....	0	.....	.....	0	0	.....	Joseph Midlinszky, S. J.
Szegedin	30.00	761.9	30.28	769.0	57.7	14.3	66	se.	.....	.....	1	.....	0	.....	.....	0	0	.....	Karl Stancel.
Trieste	30.21	767.4	30.32	770.0	66.9	19.4	37	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	Rieder.
Vienna	29.63	752.5	30.34	770.7	58.6	14.8	40	n.	.....	.....	1	.....	0	.....	.....	0	0	.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	30.00	762.0	30.10	764.5	51.5	10.8	64	ssw.	21	9.4	.....	.....	4	.....	.....	0	0	blue sky	W. Boswell.
Armagh, Observatory	29.93	760.2	30.18	766.6	52.8	11.6	73	sw.	19	8.5	.....	.....	5	.....	.....	.....	.....	d. clouds	S. Call.
Bidston, Liverpool Obs'y	.....	.....	30.26	768.6	53.0	11.7	79	ne.	5	2.2	.....	.....	7	.....	.....	.....	.....	d. clouds	John Hartnup.
Bolton, Sharples	29.69	754.1	30.23	767.8	56.8	13.8	63	ssw.	6	2.7	.....	.....	9	.....	.....	.....	.....	misty	Thomas Mackereth.
Bradford, Yorkshire	29.83	757.7	30.23	767.8	55.3	12.9	57	sw.	.....	.....	2	.....	1	.....	.....	0	0	blue sky	J. McLandsborough, F. R. A.S.
Bridgetown, Barbadoes	29.99	761.7	30.02	762.5	81.0	27.2	66	ne.	.....	.....	1	.....	8	.....	.....	.....	.....	overcast	Pvt. J. Surgenor, A. H.C.
Cardington	.....	.....	30.28	769.1	59.0	15.0	55	sw.	.....	.....	0.2	.....	1	.....	.....	.....	.....	blue sky	John McLaren.
Chatham, School M. E.	30.18	766.6	30.32	770.1	62.8	17.1	63	calm	.....	.....	0	.....	0	.....	.....	.....	.....	misty	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	30.12	765.0	30.35	770.9	53.4	11.9	84	wsw.	.....	.....	1	.....	3	.....	.....	.....	.....	foggy	The Staff.
Fort Napier, Natal	27.66	702.6	29.88	758.9	85.0	29.4	40	se.	.....	.....	3	.....	0	.....	.....	.....	.....	blue sky	Pvt. E. K. Annis, A.H.C.
Free Town, Sierra Leone	29.60	751.8	29.83	757.7	88.0	31.1	69	w.	.....	.....	1	.....	5	.....	.....	.....	.....	d. clouds	Sergt. John Robinson.
Galway, Queen's College	.....	.....	30.09	764.3	.....	.....	.....	sw.	.....	.....	3	.....	10	.....	.....	.....	.....	gloomy	J. O'Donaghue.
Gibraltar, Mediterranean	30.24	768.1	30.30	769.6	65.4	18.6	73	e.	.....	.....	1	.....	0	.....	.....	.....	.....	blue sky	Opl. O. Baldwin.
Glasgow, Observatory	29.94	760.5	30.14	765.5	47.2	8.4	81	wsw.	.....	.....	4	.....	10 n	.....	.....	.....	.....	gloomy	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	30.14	765.5	30.32	770.1	59.9	15.5	53	wsw.	.....	.....	1	.....	2	.....	.....	.....	.....	blue sky	The Staff.
Guernsey	30.08	764.0	30.38	771.6	56.5	13.6	71	nne.	.....	.....	1	.....	0	.....	.....	.....	.....	blue sky	A. Collenette, F. M. S.
Kew, Observatory	30.28	769.1	30.32	770.1	56.5	13.6	55	sw.	5	2.2	.....	.....	1	.....	.....	.....	.....	blue sky	The Staff.
Leicester, Museum	30.02	762.5	30.28	769.1	60.0	15.6	55	sw.	.....	.....	1	.....	6	.....	.....	.....	.....	d. clouds	J. C. Smith.
Malta, Mediterranean	30.24	768.1	30.32	770.1	66.0	18.9	73	ne.	.....	.....	2	.....	0	.....	.....	.....	.....	blue sky	I. H. Whysall.
Nassau, Bahamas	30.24	768.1	30.28	769.1	70.5	21.4	63	ne.	.....	.....	3	.....	4	.....	.....	.....	.....	d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.76	755.9	30.28	769.1	61.3	16.3	77	ssw.	.....	.....	1	.....	5	.....	.....	.....	.....	misty	John Mac Email.
Oxford, Radcliffe Obs'y	30.07	763.8	30.30	769.6	59.5	15.3	50	wsw.	.....	.....	1	.....	0	.....	.....	.....	.....	blue sky	The Staff.
Plymouth	30.26	768.6	30.34	770.6	53.7	12.1	77	s.	.....	.....	1	.....	0	.....	.....	.....	.....	blue sky	John Merrifield.
Sandwick Manse, Orkneys	.....	.....	29.95	760.7	47.8	8.8	81	ssw.	15	6.7	.....	.....	10	.....	.....	.....	.....	misty	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	30.11	764.8	30.18	766.6	58.2	14.6	32	ene.	.....	.....	1	.....	1	.....	.....	.....	.....	blue sky	W. H. Lyne.
Sheffield	29.95	760.7	30.22	767.6	63.7	17.6	46	sw.	.....	.....	1	.....	1	.....	.....	0	0	blue sky	W. F. Cooper.
Silloth Rectory	30.15	765.8	30.18	766.6	50.1	10.1	84	sw.	.....	.....	3	.....	7	.....	.....	0.195	5.0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	30.27	768.8	51.3	10.7	77	w.	10	4.5	.....	.....	0	.....	.....	.....	.....	blue sky	R. S. J. Perry.
Stratfield Turgiss	30.10	764.5	30.32	770.1	61.7	16.5	55	sw.	.....	.....	1	.....	0	.....	.....	.....	.....	blue sky	Rev. C. H. Griffiths, F.M.S.
Truro, Royal Institution	30.28	769.1	30.33	770.4	59	15.0	94	nw.	.....	.....	4	.....	4	.....	.....	.....	.....	d. clouds	W. Newcombe.
Valencia, Observatory	30.21	767.3	30.24	768.1	53.7	12.1	79	sw.	28	12.5	.....	.....	10	.....	.....	.....	.....	gloomy	The Met'g'l Office.
Canadian.																			
Bathurst, N. B	.....	.....	.....	.....	15.0	— 9.4	.....	nw.	2	0.9	.....	0	7 ks	.....	.....	0	0	fair	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.60	777.2	30.64	778.2	17	— 8.3	95	ne.	15	6.7	.....	.....	10 s	.....	calm	0	0	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	30.69	779.5	30.76	781.3	14	—10.0	83	ne.	10	4.5	.....	8 cs	2 s	ne.	ne.	0	0	cloudy	G. A. Blair.
Cornwall, Ontario	30.20	767.1	30.41	772.4	10.0	—12.2	87	e.	.....	.....	2	0	1 s	.....	.....	0	0	clear	James Smith, M. A.
Dalhousie, N. B	30.59	777.0	30.78	781.8	6.0	—14.4	.....	calm	.....	.....	0	0	4 ks	.....	.....	0	0	fair	H. A. Johnson.
Father Point, Quebec*	30.73	780.5	30.75	781.0	2	—16.7	75	calm	0	0	.....	2 cs	0	calm	.....	0	0	clear	J. McWilliams.
Fort Garry, Manitoba*	28.81	731.8	29.70	754.4	10	—12.2	100	nw.	10	4.5	.....	.....	10 n	.....	.....	0.572	14.5	heavy snow	James Stewart.
Fredericton, N. B	30.60	777.2	30.67	779.0	16.0	— 8.9	66	n.	14	6.3	.....	10 cs	0	.....	.....	0	0	cloudy	Prof. Harrison.
Granton, Ontario	28.85	732.8	29.99	761.7	31.0	— 0.6	100	e.	.....	.....	2	.....	10 n	.....	.....	Inap.	Inap.	raining	James Grant.
Halifax, N. S*	30.31	769.9	30.45	773.4	25	— 3.9	96	ne.	16	7.2	.....	.....	10 n	.....	.....	0.070	1.8	heavy snow	A. Allison.
Hamilton, Ontario	29.65	753.1	30.00	763.5	34.2	1.2	94	ne.	.....	.....	4	10 cs	0	se.	.....	0	0	cloudy	Geo. Dickson, B. A.
Kingston, Ontario*	29.97	761.2	30.33	770.4	17	— 8.3	80	ne.	8	3.6	.....	5 cs	5 s	.....	calm	0	0	fair	A. P. Knight, M. A.
Little Glace Bay, N. S	30.62	777.7	30.66	778.7	23.5	— 4.7	93	s.	.....	.....	5	.....	10 n	.....	.....	0	0	cloudy	C. H. Rigby.
Montreal, Quebec*	30.28	769.1	30.51	774.9	10	—12.2	66	ne.	15	6.7	.....	0	0	.....	.....	0	0	clear	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.36	745.7	30.08	764.0	29	— 1.7	84	se.	30	13.4	.....	.....	10 n	.....	se.	0	0	cloudy	Rev. R. Mosley.
Peterboro, Ontario	29.45	748.0	30.25	768.3	23.4	— 4.8	86	e.	.....	.....	1	.....	9 ks	.....	.....	Inap.	Inap.	raining	J. Dixon, B. A.
Port Dover, Ontario	29.34	745.2	30.06	763.5	32	0.0	100	e.	3	1.3	.....	.....	10 n	.....	e.	0.01	0.3	light rain	H. Morgan.
Port Stanley, Ontario	29.32	744.7	29.99	761.7	35	1.7	82	e.	28	12.5	.....	.....	10 n	.....	e.	0.15	3.8	light rain	M. Payne.
Quebec, Quebec*	30.31	769.9	30.67	779.0	16	— 8.9	76	ne.	.....	.....	5	0	0	.....	.....	0	0	clear	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.83	757.7	30.33	770.4	14	—10.0	83	e.	6	2.7	.....	hz	10 n	.....	.....	0	0	threatening	W. H. McIntyre.
Saugeen, Ontario*	29.23	742.4	29.97	761.2	33	0.6	92	se.	13	5.8	.....	.....	10 s	.....	.....	0.01	0.3	sleeting	
St. Andrews, N. B	30.46	773.7	30.52	775.2	19	— 7.2	88	ne.	17	7.6	.....	.....	10 n	.....	.....	0.01	0.3	light snow	
St. John, N. B	30.35	770.9	30.53	775 4	18.0	— 7.8	84	ne.	18	8.0	.....	.....	10 s	.....	.....	Inap.	Inap.	cloudy	G. Murdock, C. E.
St. Pierre, N. F	.....	.....	30.67	779.0	14.7	— 9.6	.....	ne.	.....	.....	3	.....	.....	.....	.....	0	0	.....	N. F. Land, Com't.
Stratford, Ontario	28.62	726.9	29.95	760.7	31.0	— 0.6	89	se.	16	7.2	.....	.....	10 s	.....	.....	0.64	16.3	raining	C. I. Macgregor, M. A.
Sydney, C. B*	30.61	777.5	30.68	779.3	26	— 3.3	84	e.	12	5.4	.....	.....	10 s	.....	ne.	0	0	cloudy	T. C. Hill, C. E.
Toronto, Ontario*	29.73	755.1	30.13	765.3	34	1.1	65	e.	25	11.2	.....	.....	10 ks	.....	sw.	0	0	cloudy	Magnetic Observatory.
Windsor, N. S	30.38	771.6	30.48	774.2	22.5	— 5.3	93	e.	18	8.0	.....	.....	10 n	.....	.....	Inap.	Inap.	snowing	Prof. W. R. Butler.
Woodstock, Ontario	28.94	735.1	30.05	763.3	31.5	— 0.3	78	se.	21	9.4	.....	.....	10 ks	.....	.....	0	0	cloudy	Prof. Wolverton
Yarmouth, N. S*	30.23	767.8	30.30	769.6	26	— 3.3	76	e.	21	9.4	.....	.....	10 n	.....	.....	0.56	14.2	heavy snow	Lt. F. E. Wilmot, R. N.
Sub-stories.																			
St. Johns, Newfoundland	30.62	777.7	30.89	784.6	17	— 8.3	.....	nw.	1	0.4	.....	0	0	.....	.....	0	0	.....	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.12	765.0	30.15	765.8	69.0	20.6	83	s.	8.2	3.7	.....	0	2 s	.....	.....	0	0	hazy	John Duthie.
Cape Town, C. G. H. Obs'y	30.04	763.0	30.08	764.0	76.0	24.4	52	s.	28	12.5	.....	0	4	.....	.....	0	0	.....	The Staff, for D. Gill.

STATIONS.	BAROMETER. Corrected for instrumental error and for temperature.		BAROMETER. Reduced to sea-level.		Temperature of the air.		Relative humidity.	WIND. Direction.	WIND. Velocity.		WIND. Force.	CLOUDS. Amount and kind. Upper.	CLOUDS. Amount and kind. Lower.	CLOUDS. Direction. Upper.	CLOUDS. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
CHINESE (*Sub-series*).																			
Hankow	29.81	757.2	30.09	764.3	67.5	19.7	74	w.	.....	.....	2	.....	10	.....	.....	0	0	.....	N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.79	756 6	29.82	757.3	66.2	19.0	64	nne.	1.6	0.7	.....	.....	10	.....	.....	0	0	covered	M.Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	30.37	771.5	30.42	772.7	42.6	5.9	75	ssw.	11.2	5	.....	.....	0	.....	.....	.....	.....	.....	Oversergent Fischer.
Fanöe	30.29	769.3	30.31	769.8	45.9	7.7	75	s.	.....	.....	4	.....	2	.....	.....	.....	.....	.....	Overloerer Lauridsen.
Godthaab, Greenland	30.17	766.2	30.21	767.3	1.0	—17.2	.....	s.	.....	.....	2	.....	10	.....	.....	.....	.....	snowing	S. Kleinschmidt.
Stykkisholm, Iceland	29.19	741.4	29.23	742.5	24.4	— 4.2	95	sw.	.....	.....	4	.....	10	.....	.....	.....	.....	snowing	A. O. Thorlacius.
Thorshavn	29.54	750.2	29.57	751.1	48.0	8.9	92	ssw.	29.1	13	.....	.....	10	.....	.....	.....	.....	raining	Overloerer Bergh.
Vestervig	30.20	767.0	30.29	769.3	43.2	6.2	91	ssw.	.....	.....	4	.....	10	.....	.....	.....	.....	.....	Loestrer Oesterbol.
FRENCH.																			
Agen, Normal School	29.69	754.2	30.39	771.8	63.7	17.6	47	calm	.....	.....	0	.....	.....	.....	.....	0	0	.....	M. Labroue, Director.
Alençon, Normal School	29.76	755.9	30.31	769.9	62.6	17	61	ne.	.....	.....	.....	.....	.....	.....	.....	0	0	.....	M. Nicot, Director.
Arras, Engineer School	30.04	763.0	30.29	769.4	63.9	17.7	59	ne.	.....	.....	.....	.....	.....	.....	.....	0	0	.....	M. Klein, Commandant.
Avignon, Normal School	30.25	768.3	30.33	770.3	71.6	22	49	n.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.71	754.6	30.26	768.7	60.8	16.0	48	se.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Saillard, Director.
Beauvais, Normal School	29.27	743.4	30.32	770.2	56.1	13.4	62	e.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Frère Eugène Marl.
Besançon, Normal School	29.34	745.2	30.26	768.7	63.0	17.2	59	ne.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Gobin, Director.
Bordeaux, Observatory	30.07	763.8	30.34	770.5	53.4	11.9	82	ssw.	.....	.....	1	.....	10	.....	wsw.	0.008	0.2	covered	M. Rayet, Director.
Bourges, Normal School	29.72	755.0	30.27	768.8	68.0	20	40	nw.	.....	.....	.....	.....	.....	.....	nw.	0	0	.....	M. Postel, Director.
Brest, Naval Observatory	30.11	764.7	30.35	770.9	65.1	18.4	72	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	M. de Kermaree, Dir.
Caen, Normal School	30.25	768.3	30.32	770.2	61.5	16.4	49	n.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.87	758.7	30.19	766.9	64.8	18.2	55	nnw.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Jadot, Director.
Charleville, Normal School	29.76	756.0	30.27	768.8	67.6	19.8	43	sse.	.....	.....	2	.....	0	.....	.....	0	0	clear	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.91	734.4	30.23	767.8	72.1	22.3	41	e.	.....	.....	1	2 ck	0	.....	.....	0	0	clear	M. Alluard, Director.
Cluny, Normal School	29.43	747.6	30.29	769.4	69.1	20.6	35	n.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. de Villemontée, Dir.
Commercy, Normal School	29.43	747.4	30.30	769.7	64.2	17.9	36	calm	.....	.....	0	.....	0	.....	.....	0	0	clear	Dr. Coulet, Director.
Gap, Normal School	27.76	705.0	30 24	768.1	67.1	19.5	20	s.	.....	.....	1	.....	.....	.....	.....	0	0	.....	M. Jeangirard, Director.
Gréasque, du. Rhone	29.17	740.8	30.27	768.8	69.1	20.6	29	nw.	.....	.....	2	.....	0	.....	.....	0	0	clear	M. Kina, Director.
Grenoble, Normal School	29.50	749.4	30.26	768.5	69.4	20.8	43	ne.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Ablard, Director.
Guéret, Normal School	28 71	729.1	30.26	768.5	65.3	18.5	28	sw.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Rivoire, Director.
Lamballe, Normal School	30.06	763.6	30.34	770.6	60.8	16	64	nw.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Ollitrault, Director.
Lescar, Normal School	29.75	755.7	30.32	770.0	65.5	18.6	52	wsw.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	30.27	768.8	30.37	771.4	64.0	17.8	63	sw.	.....	.....	1	.....	0	.....	.....	0	0	clear	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.24	742.8	30.28	769.2	67.5	19.7	39	se.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. André, Director.
Mans, Normal School	30.06	763.4	30.37	771.4	56.7	13.7	51	nnw.	.....	.....	3	.....	0	.....	.....	0	0	clear	M. Piboen, Director.
Marseille, Observatory	30.06	763.4	30.32	770.2	64.9	18.3	52	sw.	.....	.....	1	.....	0	.....	.....	0	0	.....	M. Stephan, Director.
Montlouis l'Instituteur	25.06	636.5	29.90	759.5	53.6	12.0	38	ne.	9.4	4.2	.....	.....	0	.....	.....	0	0	.....	M. Cave, for Dr. Fines.
Montpellier, Normal School	30.17	766.3	30.29	769.3	70.5	21.4	59	ssw.	.....	.....	2	.....	0	.....	.....	0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.50	749.4	30.29	769.3	62.6	17	43	w.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Hasse, Director
Nantes, Observatory	30.20	767.0	30.36	771.1	63.9	17.7	45	nne.	.....	.....	0-1	.....	0	.....	.....	0	0	.....	M. Larocque, Director.
Perpignan, Observatory	30.21	767.3	30.32	770.0	65.5	18.6	51	s.	5.6	2.5	.....	.....	0	.....	.....	0	0	.....	Dr. Fines, Director.
Pic-du-Midi, Summit	21.45	544.7	.....	.....	34.9	1.6	.....	sse.	.....	.....	1	.....	1	.....	se.	0	0	clear	Gen'l de Nansouty, Dir.
Privas, Normal School	29.47	748 6	30.28	769.1	70.9	21.6	32	sse.	.....	.....	1	.....	.....	.....	.....	0	0	.....	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.42	645.6	.....	.....	49.6	9.8	47	sw.	.....	.....	2	.....	0	.....	.....	0	0	clear	M. Alluard, Director.
Rochefort, Naval Obs'y	30.34	770.6	30.37	771.4	56.8	13.8	89	sw.	.....	.....	1	.....	8	.....	wsw.	0	0	¼ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	30.08	764.1	30.30	769 5	66.6	19.2	46	n.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Mouillot, Director.
Rodez, Normal School	28.17	715.4	30.32	770.1	58.3	14.6	65	nw.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Serger, Director.
Rouen, Normal School	30.26	768.5	30.30	769.7	62.2	16.8	64	e.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Platrier, Director.
Saint Maur, Observatory	30.13	765.2	30.29	769.4	62.8	17.1	37	ne.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Renou, Director.
Toulouse, Observatory	29.63	752.5	30.36	771.1	68.5	20.3	41	n.	.....	.....	1	.....	1	.....	w.	0	0	clear	M. Baillaud, Director.
Versailles, Observatory	29.80	756.8	30.29	769.3	63.3	17.4	32	ne.	.....	.....	1	.....	.....	.....	.....	0	0	.....	Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	30.02	762.4	30.31	769.8	62.4	16.9	36	n.	.....	.....	1	.....	0	.....	.....	0	0	.....	M. Marié Davy, Director
GERMAN.																			
Bamberg	29.50	749.3	30.37	771.3	60.8	16.0	40	nw.	.....	.....	2	0	2 ks	.....	.....	0	0	.....	Prof. Dr. Hoh.
Berlin	30.18	766.5	30.36	771.1	51.1	10.6	63	ne.	.....	.....	1	.....	6	.....	.....	0	0	.....	Prof. Dr. Arndt.
Breslau	29.87	758.7	30.41	772.4	48.4	9.1	36	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	Royal University Obs'y.
Carlsruhe	29.83	757.6	30.26	768.7	66.6	19.2	40	ne.	.....	.....	1	.....	0	.....	.....	0	0	.....	Albert Senz.
Cassel	29.56	750.9	30.28	769.1	61.2	16.2	44	s.	.....	.....	1	.....	0	.....	.....	0	0	.....	Dr. H. Möhl.
Frankfort on the Main	29.94	760.5	30.31	769.8	60.3	15.7	50	ene.	.....	.....	1	.....	2	.....	.....	0	0	.....	Physical Society.
Friedrichshafen	28.86	733.1	30.32	770.1	51.4	10.8	66	s.	.....	.....	1	.....	0	.....	.....	0	0	.....	Wilhelm, Chief Tel.
Hamburg	30.29	769.4	30.39	771.8	45.5	7.5	77	se.	.....	.....	2	.....	0	.....	.....	0	0	.....	E. Preller.
Kiel	30.32	770.1	30.34	770.5	46.4	8.0	62	w.	.....	.....	2	.....	1	.....	.....	0.008	0.2	.....	Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.95	760.6	30.37	771.4	53.6	12.0	53	n.	.....	.....	1	.....	0	.....	.....	0	0	.....	B. Leppig, Asst.
Magdeburg	30.17	766.3	30.36	771.2	56.7	13.7	52	se.	.....	.....	1	0	0	.....	.....	0	0	.....	Dr. Assmann.
Memel	30.30	769.7	30.35	770.9	33.6	0.9	51	n.	.....	.....	5	0	2k	.....	.....	.....	.....	.....	Issermann.
Munich	28.46	722.8	30.34	770.6	61.7	16.5	28	ne.	.....	.....	2	.....	0	.....	.....	0	0	.....	Central Station
Neufahrwasser	30.41	772.3	30.42	772.7	37.8	3.2	56	n.	.....	.....	2	.....	1	nw.	.....	0	0	.....	A. Lothes.
Neustadt, Palatinate	29.76	755.8	30.29	769.3	59.5	15.3	46	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	Dicknether.
Stuttgart	29.30	744.1	30.17	766.4	66.2	19.0	34	s.	.....	.....	1	.....	0	.....	.....	0	0	.....	Prof. Dr. Schoder.
Wustrow	30.39	771.8	30.41	772.4	40.1	4.5	90	n.	.....	.....	2	0	3 s	.....	.....	0	0	.....	Profs. Brandes & Reimer.
GREEK.																			
Athens	29.83	757.7	30.22	767.5	70.7	21.5	.....	sw.	.....	.....	1.0	.....	0	.....	.....	0	0	clear	Schmidt & Wourlisch.
INDIAN.																			
Bellary	28.38	720.8	.....	.....	93.5	34.2	16	se.	4.6	2.1	.....	0	0	.....	.....	0	0	blue sky	
Kurrachee	29.91	759 6	29.96	761.0	80.5	26.9	65	wsw.	19	8.5	.....	.....	7	w.	.....	0	0	d. clouds	
Deesa	29.40	746.7	29.86	758.3	94.4	34.7	35	wsw.	7.7	3.4	.....	.....	7	wnw.	wnw.	0	0	d. clouds	
Bombay	29.83	757.7	29.87	758.7	84.8	29.3	64	nw.	14	6.3	.....	.....	2	wnw.	.....	0	0	d. clouds	
Poona, Yarrowda	27.99	710.8	29.78	756.5	95.6	35.3	12	w.	22	9.8	.....	.....	3	wsw.	.....	0	0	d. clouds	
Belgaum	27.34	694.4	29.83	757.6	85.8	29.9	53	sw.	8	3.6	.....	.....	2	nw.	.....	0.48	12.2	misty	
Lahore	29.15	740.4	29.90	759.5	74.6	23.7	40	n.	2.4	1.1	.....	.....	10	.....	.....	0	0	overcast	
Roorkee	28.97	735.9	29.87	758.8	80.8	27.1	35	calm	1.5	0.7	.....	.....	8	.....	.....	0	0	.....	
Agra	29.31	744.4	29.87	758.6	89.2	31.8	25	s.	3.0	1.3	.....	.....	8	.....	s.	0	0	.....	
Nagpur	28.77	730.8	29.79	756.6	94.9	34.9	19	wnw.	4.6	2.1	.....	.....	5	w.	.....	0	0	d. clouds	
Jubbulpore	28.48	723.5	29.80	757.0	93.5	34.2	15	nw.	2.4	1.1	.....	.....	2	.....	.....	0	0	d. clouds	
Lucknow	29.46	748.2	29.82	757.5	93.0	33.9	13	wnw.	4.7	2.1	.....	.....	3	wnw.	.....	0	0	misty	
Allahabad	29.50	749.4	29.81	757.1	91.2	32.9	21	nw.	2.1	0.9	.....	.....	0	.....	.....	0	0	blue sky	
Patna	29.61	752.1	29.79	756.7	87.6	30.9	27	nw.	3.0	1.3	.....	.....	4	nw.	nw.	0	0	d. clouds	
Hazaribagh	27.79	705.9	29.77	756.2	84.8	29.3	33	nw.	10.4	4.6	.....	.....	7	.....	nw.	0	0	.....	
Cuttack	29.74	755.3	29.82	757.3	91.3	32.9	31	ssw.	2.9	1.3	.....	.....	1	.....	.....	0	0	blue sky	
Calcutta, Alipore	29.76	755.8	29.78	756.3	87.8	31.0	34	wsw.	2.0	0.9	.....	.....	0	.....	.....	0	0	blue sky	
Dhubri	29.59	751.5	29.71	754.5	85.4	29.7	37	calm	1.4	0.6	.....	.....	0	.....	.....	0	0	blue sky	
Chittagong	29.76	755.9	29.85	758.2	78.9	26.1	87	sw	4.2	1.9	.....	.....	4	.....	.....	0	0	blue sky	
Sibsagar	29.50	749.4	29.85	758.2	69.8	21.1	85	ne.	3.9	1.7	.....	.....	10	w.	w.	0	0	d. clouds	
Jeypore	28.45	722.5	29.87	758.7	87.5	30.8	23	nw.	6.9	3.1	.....	.....	9	nw.	.....	0	0	d. clouds	
Zanzibar, Africa	29.89	759.2	.....	.....	82.6	28.1	80	ne.	3.7	1.7	.....	.....	9	.....	e.	.....	.....	raining	
Trichinopoly	29.61	752.1	.....	.....	93.3	34.1	31	e.	2	0.9	.....	.....	5	.....	.....	0	0	d. clouds	
ITALIAN.																			
Udine	29.89	759.3	30.30	769.7	71.6	22.0	16	s.	1.8	0.8	.....	.....	1	.....	.....	0	0	.....	Prof. Giovanni Clodig.
Milan	29.79	756.7	30.31	769.9	68.4	20.2	43	s.	1.8	0.8	.....	.....	0	.....	.....	0	0	.....	Prof. Schiaparelli.
Padua	30.19	766.7	30.30	769 5	68.0	20.0	41	ese.	1.3	0.6	.....	.....	0	.....	.....	0	0	.....	Prof. Dott. Lorenzoni.
Moncalieri	29.41	746.9	30.32	770.0	65.7	18.7	49	se.	2.5	1.1	.....	.....	0	.....	.....	0	0	.....	Prof. P. F. Denza.
Genoa	30.13	765.4	30.33	770 3	62.6	17.0	74	sw.	4.3	1.9	.....	.....	2	.....	.....	0	0	.....	Prof. G. M. Garibaldi.
Mondovi	28.39	721.2	30.32	770.0	62.4	16.9	43	nw.	.....	.....	2	.....	0	.....	.....	0	0	.....	Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
ITALIAN.—Continued.																			
Pesaro	30.25	768.3	30.30	769.5	61.9	16.6	40	ne.	8.7	3.9	.....	.....	0	.....	.....	0	0	.....	Prof. Luigi Guidi.
Florence	30.04	762.9	30.29	769.4	67.6	19.8	29	w.	.....	.....	2	.....	0	.....	.....	0	0	.....	Prof. Costantino Pitter.
Leghorn	30.15	765.9	30.24	768.1	64.2	17.9	69	wsw.	0	0	.....	.....	0	.....	.....	0	0	.....	Prof. P. Monte.
Rome	30.12	765.0	30.29	769.4	69.6	20.9	30	wsw.	7.4	3.3	.....	.....	0	.....	.....	0	0	.....	Prof. P. S. Ferrari.
Lecce	29.99	761.7	30.24	768.2	68.0	20.0	79	wnw.	15.0	6.7	.....	.....	0	.....	.....	0	0	.....	Prof. C. de Giorgi.
Cosenza	29.34	745.2	30.23	767.9	67.6	19.8	76	sse.	2.5	1.1	.....	.....	0	.....	.....	0	0	.....	Prof. D. Conti.
Cagliari	30.07	763.8	30.26	768.7	62.6	17.0	70	s.	.....	.....	4	.....	1	.....	.....	0	0	.....	Prof. A. Pacinotti.
Palermo	30.09	764.2	30.34	770.6	65.1	18.4	44	ne.	4.9	2.2	.....	.....	0	.....	.....	0	0	.....	Prof. G. Ciaccatore.
Syracuse	30.22	767.5	30.26	768.7	68.0	20.0	56	s.	6.3	2.8	.....	.....	0	.....	.....	0	0	.....	Prof. Vincenzo Guiliano.
Sub-series.																			
Naples, S. R	29.75	755.7	30.27	768.8	65.5	18.6	69	se.	2.5	1.1	.....	.....	0	.....	.....	0	0	.....	Prof. T. Brioschi.
Stelvio	22.43	569.7	.....	.....	37.9	3.3	49	sw.	.....	.....	4	.....	0	.....	.....	0	0	clear	Prof. P. F. Denza.
Valdobbia	22.47	570.7	.....	.....	41.0	5.0	53	n.	.....	.....	2	.....	0	.....	.....	0	0	clear	Prof. P. F. Denza.
JAPANESE.																			
Aomori	30.11	764.8	30.14	765.5	31.0	— 0.6	61	ese.	1.4	0.6	.....	0	0	.....	.....	0.012	0.3	clear	K. Ogawa.
Hakodate	30.11	764.8	30.12	765.0	28.0	— 2.2	55	calm	0	0	.....	.. ..	0	.....	.....	0	0	clear	
Hiroshima, I. M. Obs'y	29.90	759.4	29.92	759.9	57.0	13.9	76	sw.	1.5	0.7	.....	10 cs;ck	0	.....	.....	1.550	39.4	covered	K. Sasaki.
Kanazawa	29.90	759.4	30.00	762.0	46.4	8.0	77	se.	9.2	4.1	.....	6 cs	0	.....	.....	0.015	0.4	dull	S. Endo.
Kioto	29.80	756.9	29.98	761.5	53.3	11.8	69	se.	0.8	0.4	.....	.....	10 s	.....	.....	0.430	10.9	cloudy	M. Tojima.
Kochi	29.99	761.7	30.01	762.2	60.9	16.1	78	sw.	3.1	1.4	.....	.....	10 s	.....	.....	0.015	0.4	cloudy	
Nagasaki, I. M. Obs'y	29.75	755.6	29.95	760.7	62.9	17.2	66	s.	12.0	5.4	.....	0	6 s	.....	.....	0.650	16.5	gloomy	S. Takehayashi.
Nilgata	30.03	762.7	30.07	763.8	41.5	5.3	76	ne.	2.6	1.2	.....	0	3 s	.....	.....	0	0	clear	
Nobiru	30.08	764.0	30.09	764.3	39.1	3.9	64	n.	9.4	4.2	.....	0	0	.....	.....	0	0	clear	H. Midzushina.
Supporo	.....	.....	.....	.....	31.0	— 0.6	72	nw.	7.2	3.2	.....	.....	10	.....	.....	0.015	0.4	covered	
Tokei Obs'y, Yeddo	29.95	760.7	30.02	762.5	50.5	10.3	83	e.	5.8	2.6	.....	0	7 s	.....	.....	0.046	1.2	fair	The Staff.
Wakayama	29.92	760.0	29.98	761.5	60.9	16.1	72	calm	0	0	.....	10 ck	0	.....	.....	0.162	4.1	cloudy	Y. Kuwamuea.
MAURITIUS.																			
Mauritius Observatory	29.82	757.4	30.01	762.2	79.0	26.1	80	ssw.	4.3	1.9	.....	.....	10ks;n	.....	sw.	0.16	4.1	cloudy	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.74	603.0	29.96	761.0	66.2	19.0	39	ne.	.....	.....	.....	3	6	.....	.....	0	0	cloudy	Vicente Fernandez.
Leon	24.41	620.1	30.13	765.3	56.5	13.6	79	nnw.	.....	.. ..	1	7	0	s.	.....	0	0	covered	Prof. M. Leal.
Mazatlan	29.73	755.2	30.00	761.9	66.5	19.2	97	e.	0.9	0.4	.....	0	9 n	.....	se.	0	0	very cloudy	F. Quijano, C. E.
Mexico, Central Obs'y	23.18	588.7	30.30	769.5	50.4	10.2	37	n.	0.4	0.2	.....	2	2	.....	.....	0	0	fine	M. Tena, M. D.
Morelia	24.30	617.2	30.45	773.3	58.1	14.5	76	se.	.....	.....	3	3	3	se.	e.	0	0	½ clouded	The Staff.
Pabellon, Aguascalientes	24.00	609.5	30.05	763.2	57.0	13.9	57	.....	.....	.....	.....	5	0	.....	.....	0	0	½ clouded	M. V. de Leon, M. E.
Puebla, Catholic Institute	23.43	595.1	30.35	770.8	44.1	6.7	56	calm	0	0	.....	0	0	.....	.....	0	0	clear	Prof. P. Spina.
San Luis Potosi	24.20	614.7	30.14	765.6	57.4	14.1	61	ese.	.....	.....	1	.....	10	.....	w.	0	0	covered	G. Barroeta, M. D.
Vera Cruz	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Zacatecas	22.59	573.7	30.19	766.9	58.8	14.7	53	.....	.....	.....	.....	2	0	.....	.....	0	0	fine	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.34	770.5	30.34	770.5	57.0	13.9	.....	ssw.	.....	.....	2	.....	.....	.....	.....	0.012	0.3	.....	
Groningen	30.28	769.0	30.33	770.4	51.4	10.8	.....	s.	.....	.....	1	.....	.....	.....	.....	0	0	.....	
Helder	30.32	770.2	30.32	770.2	46.0	7.8	.....	e.	.....	.....	1	.....	.....	.....	.....	0	0	.....	
Hellevoetsluis	30.32	770.0	30.32	770.0	57.6	14.2	69	nw.	.....	.....	1	.....	.....	.....	.....	0	0	.....	
Utrecht	30.28	769.2	30.33	770.4	59.5	15.3	50	wsw.	.....	.....	1	.....	0	.....	.....	0	0	clear	H. van der Brink.
NORWEGIAN.																			
Bergen	30.07	763.7	30.13	765.3	41.4	5.2	87	sse.	18	8	.....	.....	10	.....	.....	0.661	16.8	raining	
Brono	29.98	761.6	30.02	762.6	29.8	— 1.2	84	se.	4	2	.....	.....	10	.....	.....	0.173	4.4	.....	
Christiania	30.06	763.6	30.21	767.4	42.3	5.7	67	ssw.	7	3	.....	.....	2	.....	.....	0	0	.....	
Gjesvær	29.80	757.0	29.83	757.6	22.6	— 5.2	.....	nnw.	.....	.....	7	.....	10	.....	.....	.....	.....	.....	
Lodingen	30.04	763.0	30.09	764.2	22.6	— 5.2	67	wnw.	.....	.....	2	.....	2	.....	.....	0	0	.....	
PORTUGUESE.																			
Angra, Azores	.....	.....	.....	.....	61.5	16.4	92	ssw.	7.4	3.3	.....	.....	6	.....	.....	0	0	.....	Dr. J. A. Sampaio.
Campo Major	29.28	743.6	30.26	768.5	72.9	22.7	30	ssw.	3.1	1.4	.....	.....	1	.....	.....	0	0	.....	Dr. A. M. R. dos Santos.
Funchal, Maderia	30.30	769.7	30.39	771.9	66.6	19.2	58	wsw.	1.3	0.6	.....	.....	3	.....	.....	0	0	.....	Capt. D. A. de Cunha.
Lisbon, Observatory	29.98	761.5	30.34	770.5	66.7	19.3	41	ssw.	4.9	2.2	.....	.....	1	.....	.....	0	0	.....	The Staff.
Ponta Delgada, Azores	30.37	771.3	30.44	773.1	66.6	19.2	76	s.	3.1	1.4	.....	.....	4	.....	.....	0	0	.....	
Saint Paul de Loando	29.73	755.1	29.93	760.2	80.2	26.8	87	w.	0.7	0.3	.....	.....	8	.....	.....	0	0	.....	
Serra da Estrella	25.54	648.7	30.24	768.1	55.4	13.0	30	se.	7.4	3.3	.....	.....	3	.....	.....	0	0	.....	
RUSSIAN.																			
Akmolinski	27.99	711.0	29.07	738.4	32.9	0.5	83	se.	13	6	.....	0	2 k;n	.....	.....	0.055	1.4	.....	Major K. Lasarew.
Archangel	29.21	741.9	29.23	742.4	19.0	— 7.2	93	nw.	22	10	.....	.....	10	.....	.....	0	0	.....	Capt. Sselliwerstow.
Astrakhan	29.49	749.1	29.41	747.0	31.8	— 0.1	49	nw.	36	16	.....	0	8 k	.....	.....	blank	blank	.....	Capt. Wisganow.
Barnaul	29.15	740.4	29.66	753.4	33.1	0.6	71	calm	0	0	.....	.....	0	.....	.....	0	0	.....	Meteorological Obs'y.
Dorpat	29.82	757.5	30.08	764.0	27.5	— 2.5	37	nw.	18	8	.....	0	1 k	.....	.....	0	0	.....	Observatory.
Ekaterinburg	27.39	695.7	28.34	719.7	33.3	0.7	70	sse.	22	10	.....	.....	7 n	.....	.....	0.079	2.0	heavy clouds	Meteorological Obs'y.
Kazan	28.31	719.1	28.58	726.0	20.7	— 6.3	70	nw.	31	14	.....	.....	10	.....	.....	0.004	0.1	.....	Observatory.
Kertch	29.85	758.2	29.87	758.7	35.1	1.7	75	nw.	18	8	.....	0	7 n	.....	.....	0.008	0.2	.....	Lagorio & Sastyrex.
Kieff	29.24	742.7	29.91	759.6	30.2	— 1.0	57	wnw.	31	14	.....	c	9 ks;n	.....	.....	0.008	0.2	.....	Observatory.
Lugan	29.37	746.0	29.58	751.4	29.7	— 1.3	59	wnw.	22	10	.....	.....	9	.....	.....	0.012	0.3	.....	Meteorological Obs'y
Moscow	28.80	731.5	29.30	744.1	23.4	— 4.8	60	nnw.	13	6	.....	.....	10 s	.....	.....	0	0	.....	Meteorological Obs'y.
Nikolaiev	30.01	762.2	30.08	764.0	36.7	2.6	51	nw.	45	20	.....	0	6 n	.....	.....	0	0	.....	Capt. Kurdakow.
Nikolaievsk, on the Amoor	29.87	758.7	29.96	760.9	5.0	—15.0	86	calm	0	0	.....	.....	4	.....	.....	0	0	.....	Lieut. Iwanow.
Pekin, China	29.80	756.9	29.94	760.5	48.4	9.1	34	se.	13	6	.....	0	5 k	.....	.....	0	0	.....	Physical Observatory
St. Petersburg	29.82	757.3	29.83	757.7	26.6	— 3.0	44	nw.	22	10	.....	c	1 ks	.....	.....	0	0	.....	Central Physical Obs
Tashkend, Laboratory	27.72	704.2	29.26	743.1	56.3	13.5	84	s.	13	6	.....	.....	10	.....	.....	0.472	12.0	.....	Telch, A. M.
Tiflis	28.14	714.8	29.57	751.1	42.3	5.7	25	nw.	45	20	.....	0	3 s	.....	.....	0.031	0.8	.....	Physical Observatory
Vladivostok	30.03	762.8	30.10	764.5	31.1	— 0.5	52	calm	0	0	.....	0	8 n	.....	.....	0	0	.....	
Warsaw	29.91	759.7	30.35	770.9	41.7	5.4	35	nw.	16	7	.....	cs	1 k	.....	.....	.....	.....	.....	Astronomical Obs'y
Wilna	29.77	756.2	30.22	767.5	30.2	— 1.0	50	nnw.	18	8	.....	.....	5	.....	.....	0	0	.....	Berg, Assistant.
Yeniseisk	29.63	752.5	29.92	760.0	34.7	1.5	84	ssw.	2	1	.....	.....	10	.....	.....	0	0	.....	M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	30.19	766.7	30.29	769.4	58.3	14.6	75	ce.	2.7	1.2	.....	.....	0	.....	.....	0	0	clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.32	770.2	30.38	771.7	62.1	16.7	68	w.	2.2	1.0	.....	0	0	.....	.....	0	0	clear	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.33	694.2	30.26	768.7	64.4	18.0	33	ne.	2.0	0.9	.....	0	1	.....	.....	0	0	almost clear	Domingo Martin.
Madrid, Royal Obs'y	28.06	712.7	30.27	768.9	64.4	18.0	30	n.	3.1	1.4	.....	0	0	.....	.....	0	0	clear	The Staff.
Murcia, Met. Obs'y	30.15	765.7	30.30	769.5	69.1	20.6	50	sse.	3.6	1.6	.....	3	4	nw.	.....	0	0	cloudy	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.39	746.4	30.27	768.8	69.6	20.9	29	ne.	11.2	5.0	.....	.....	1	.....	.....	0	0	almost clear	R. Gil Vallanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I	30.08	764.0	30.14	765.7	68.0	20.0	86	calm	0	0	.....	0	0	.....	.....	0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.93	760.3	29.99	761.7	77.5	25.3	74	ese.	7.5	3.4	.....	0	8	.....	.....	0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.22	767.5	30.32	770.0	68.4	20.2	55	e.	4.7	2.1	.....	0	0	.....	.....	0	0	.....	Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	30.02	762.6	30.11	764.9	73.0	22.8	77	calm	0	0	.....	4 cs	4 k	sw.	sw.	0.020	0.5	d. clouds	Manuel Maeu.
Tuguegarao, Philippine Id's	29.86	758.4	29.99	761.7	75.1	23.9	86	nnw.	6.7	3.0	.....	0	0	.....	.....	0	0	clear	José L. Yrastorza.
SWEDISH																			
Haparanda	29.98	761.6	30.02	762.6	23.4	— 4.8	53	nw.	.....	.....	4	.....	0	.....	.....	0	0	.....	
Umea	30.09	764.3	30.14	765.6	26.2	— 3.2	53	n.	.....	.....	4	.....	2	.....	.....	0.028	0.7	.....	
Hernosand	30.19	766.8	30.24	768.1	32.2	0.1	40	calm	.....	.....	0	.....	2	.....	.....	0	0	.....	
Stockholm	30.11	764.8	30.29	769.3	33.4	0.8	41	nw.	.....	.....	4	.....	0	.....	.....	0	0	.....	
Wisby	30.24	768.0	30.30	769.5	32.7	0.4	85	nnw.	.....	.....	4	.....	0	.....	.....	0	0	.....	
Sub-series.																			
Upsala	30.16	766.1	30.25	768.3	35.4	1.9	45	wnw.	8.5	3.8	.....	.....	2	.....	.....	0.039	1.0	.....	S. G. Finemau.
SWISS.																			
Geneva	28.88	733.6	30.31	769.9	54.5	12.3	57	n.	.....	.....	2	.....	.....	.....	.....	0	0	clear	The Observatory

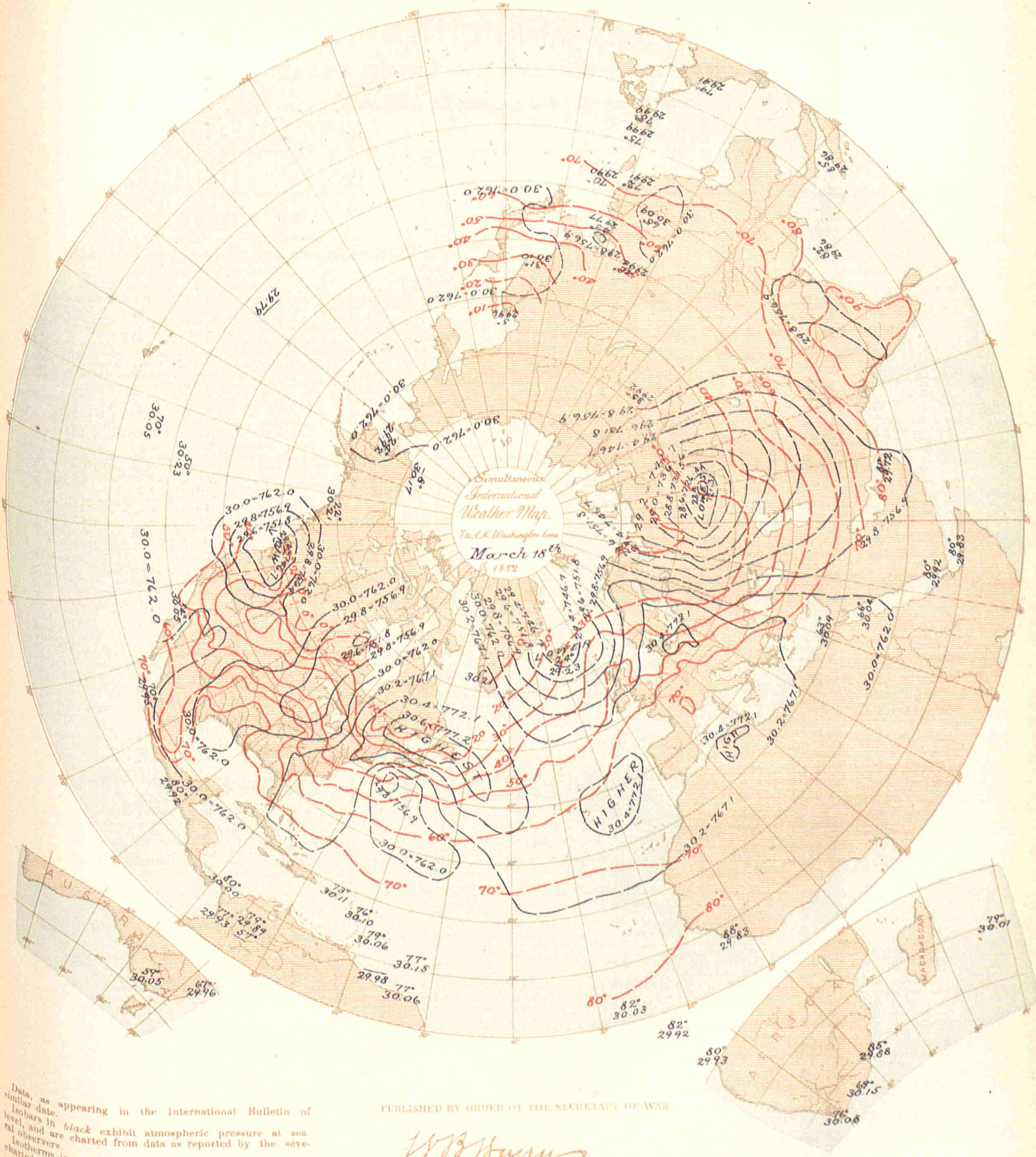
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	OBSERVERS.
TURKISH.																			
Constantinople	.....	.....	30.24	768.1	54.5	12.5	34	ene.	22	10.0	.....	.....	1	.....	nnw.	0	0	.....	The Observatory.
Valona	.....	.....	30.26	768.7	63.9	17.7	.....	nw.	.....	.....	1	.....	0	.....	.....	0	0	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	30.01	762.3	66.0	18.9	64	sw.	.....	.....	2	1 ck	0	.....	.....	0	0	.....	Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	30.36	771.1	30.45	773.4	31	— 0.6	68	n.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. O. Barnes.
Alpena, Michigan	29.22	742.2	29.92	760.0	32	0.0	88	se.	23	10.3	.....	.....	10 n	.....	se.	0.04	1.0	sleeting	Jas. J. Fitzgerald.
Atlanta, Georgia	29.00	736.6	30.21	767.3	52.5	11.4	93	e.	8	3.6	.....	.....	10 s	.....	calm	0	0	cloudy	H. Hall.
Atlantic City, New Jersey	30.35	770.9	30.36	771.1	34.4	1.3	72	ne.	18	8.0	.....	2 cs	0	.....	.....	0	0	clear	Jas. M. Watson.
Augusta, Georgia	30.04	763.0	30.24	768.1	57.0	13.9	69	se.	3	1.3	.....	.....	10 s	.....	.....	0	0	cloudy	John Healy.
Baltimore, Maryland	30.34	770.6	30.39	771.9	38	3.3	62	e.	7	3.1	.....	.....	10 s	.....	se.	0	0	cloudy	Robert Seyboth.
Barnegat, New Jersey	30.34	770.6	30.36	771.1	33.5	0.8	64	ne.	15	6.7	.....	4 cs	0	nw.	.....	0	0	fair	Chas. F. Merritt.
Bismarck, Dakota	26.12	714.2	30.04	763.0	10	—12.2	80	nw.	14	6.3	.....	.....	10 s	.....	.....	0	0	cloudy	Cyrus Cramer.
Boise City, Idaho	26.74	679.2	29.66	753.4	28.5	— 1.9	94	se.	12	5.5	.....	.....	10 s	.....	w.	0.08	2.0	cloudy	B. E. Light.
Boston, Massachusetts	30.27	768.8	30.43	772.9	24.0	— 4.4	73	n.	16	7.2	.....	0	7 s	.....	n.	0	0	fair	O. B. Cole.
Brownsville, Texas	29.88	758.9	29.93	760.2	74	23.3	90	s.	16	7.2	.....	0	9 ks	.....	s.	0	0	cloudy	J. C. Galloway.
Buffalo, New York	29.31	744.5	30.10	764.5	38.5	3.6	50	e.	8	3.6	.....	.....	10 s	.....	e.	0	0	cloudy	Wm Finn.
Burlington, Vermont	30.15	765.8	30.46	773.7	13.3	—10.4	79	ne.	1	0.4	.....	0	0	.....	.....	0	0	clear	G. C. Schaeffer.
Cairo, Illinois	29.45	748.0	29.87	758.7	65.6	18.7	80	sw.	16	7.2	.....	.....	10 s	.....	sw.	0	0	cloudy	W. H. Ray.
Campo, California	27.44	697.0	30.05	763.3	29.8	— 1.2	88	nw.	2	0.9	.....	.....	fg.	.....	.....	0	0	dense fog	W. H. Clendenon.
Camp Thomas, Arizona	27.19	690.6	29.97	761.2	46.5	8.1	95	w.	.....	.....	1	.....	10 n	.....	.....	0.26	6.6	heavy rain	J. T. Fitzgerald.
Cape Henry, Virginia	30.33	770.4	30.35	770.9	41	5.0	73	ne.	12	5.4	.....	3 k	7 s	.....	ne.	0	0	cloudy	J. E. Lanouette.
Cape May, New Jersey	30.34	770.6	30.37	771.4	32	0.0	68	calm	0	0	.....	0	9 ks	.....	w.	0	0	cloudy	W. Bolton.
Castroville, Texas	29.11	739.4	29.94	760.5	69	20.6	87	se.	8	3.6	.....	.....	10 s	.....	s.	0	0	cloudy	T. Jones.
Cedar Keys, Florida	30.17	766.3	30.19	766.8	68	20.0	90	se.	11	4.9	.....	4 cs	3 s	.....	se.	0	0	fair	F. W. Mixer.
Champaign, Illinois	28.84	732.5	29.70	754.4	53.8	12.1	86	s.	13	5.8	.....	.....	10 s	.....	s.	1.36	34.5	cloudy	L. A. Welsh.
Charleston, S. Carolina	30.17	766.3	30.23	767.8	59	15.0	87	e.	7	3.1	.....	3 ck	0	w.	.....	0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.38	746.2	30.26	768.6	45.0	7.2	76	ne.	3	1.3	.....	.....	10 s	.....	ne.	0.08	2.0	cloudy	D. O. Donoghue.
Chattanooga, Tennessee	29.30	744.2	30.15	765.8	57.5	14.2	82	s.	8	3.6	.....	.....	10 s	.....	s.	inap.	inap.	cloudy	B. L. Goulding.
Cheyenne, Wyoming	23.89	666.8	30.07	763.8	23.1	— 4.9	56	w	12	5.4	.....	0	0	.....	.....	0	0	clear	E. McGovern.
Chicago, Illinois	28.90	734.0	29.64	752.8	48.2	9.0	95	s.	5	2.2	.....	.....	10 s	.....	.....	0.12	3.0	cloudy	J. Mitchell.
Chincoteague, Virginia	30.33	770.4	30.35	770.9	38	3.3	73	e.	10	4.5	.....	.....	10 s	.....	nw.	0	0	cloudy	F. C. Pratz.
Cincinnati, Ohio	29.20	741.7	29.89	759.2	59.1	15.1	75	sw.	5	2.2	.....	0	6 ks	.....	w.	0.63	16.0	fair	R. B. Watkins.
Cleveland, Ohio	29.17	740.9	29.95	760.7	39	3.9	89	se.	26	11.6	.....	.....	10 n	.....	s.	0.64	16.3	light rain	J. B. Newlin.
Coleman City, Texas	28.11	714.0	29.96	761.0	60	15.6	93	s.	3	1.3	.....	.....	10 s	.....	.....	0	0	cloudy	L. Dorman.
Columbus, Ohio	29.00	736.6	29.89	759.2	49	9.4	80	se.	6	2.7	.....	.....	10 s	.....	sw.	0.20	5.1	cloudy	D. Cuthbertson.
Concho, Texas	27.95	709.9	29.92	760.0	61	16.1	93	calm	0	0	.....	0	0	.....	.....	0	0	clear	W. W. McConihe.
Davenport, Iowa	28.96	735.6	29.65	753.1	45	7.2	83	nw.	10	4.5	.....	.....	10 n	.....	nw.	0.63	16.0	light rain	R. R. Martin.
Dayton, Washington T'y	27.76	705.1	29.57	751.1	33.2	0.7	88	sw.	6	2.7	.....	.....	10 n	.....	sw.	0.22	5.6	light snow	H. Clifford.
Deadwood, Dakota	25.22	640.6	30.06	763.5	20	— 6.7	87	calm	0	0	.....	0	0	.....	.....	0.02	0.5	clear	G. W. Scott.
Decatur, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	D. J. Carr.
Delaware Breakwater, Del.	30.35	770.9	30.37	771.4	36	2.2	79	ne.	20	8.9	.....	8ck;cs	0	w.	.....	0	0	cloudy	A. Schneider.
Denison, Texas	29.05	737.9	29.88	758 9	69.3	20.7	90	sw.	16	7.2	.....	0	6 s	.....	.....	0	0	fair	J. McGlone.
Denver, Colorado	24.64	625.8	30.08	764.0	34.0	1.1	55	s.	6	2.7	.....	0	6 s	.....	calm	0	0	fair	F. M. Neal.
Des Moines, Iowa	28.87	733.3	29.83	757.7	40	4.4	82	n.	8	3.6	.....	.....	10 s	.....	n.	0.06	1.5	cloudy	F. W. Conrad.
Detroit, Michigan	29.14	740.1	29.90	759.4	45.0	7.2	76	se.	18	8.0	.....	.....	10 n	.....	se.	0.30	7.6	light rain	C. F. R. Wappenhans.
Dodge City, Kansas	27.24	691.9	29.97	761.2	40	4.4	59	n.	28	12.5	.....	.....	10 s	.....	.....	0	0	cloudy	E. A. Thomas.
Dubuque, Iowa	28.94	735.1	29.69	754.1	39.5	4.2	89	nw.	4	1.8	.....	.....	10 s	.....	calm	0.34	8.6	cloudy	J. Harvey Smith.
Duluth, Minnesota	28.94	735 1	29.68	753.9	36	2.2	89	sw.	6	2.7	.....	.....	10 s	.....	sw.	0.28	7.1	cloudy	N. B. Conger.
Eagle Pass, Texas	29.10	739.1	29.92	760.0	70.1	21.2	93	se.	2	0.9	.....	.....	10 s	.....	se.	0	0	cloudy	F. Belford.
Eagle Rock, Idaho	25.10	637.5	29.97	761.2	22	— 5.6	88	sw.	16	7.2	.....	0	0	.....	.....	0	0	clear	J. M. Clifford.
Eastport, Maine	30.42	772.7	30.49	774.4	21	— 6.1	84	ne.	31	13.9	.....	.....	10 n	.....	ne.	0.01	0.3	light snow	J. H. Melton.
El Paso, Texas	26.20	665.5	30.00	762.0	52	11.1	61	nw.	6	2.7	.....	.....	10 s	.....	sw.	0	0	cloudy	J. F. Marshall.
Erie, Pennsylvania	29.22	742.2	29.99	761.7	38	3.3	89	s.	31	13.9	.....	.....	10 n	.....	.....	0.15	3.8	light rain	R. H. Paxton.
Escanaba, Michigan	29.07	738.4	29.78	756.4	34	1.1	88	e.	9	4.0	.....	.....	10 s	.....	.....	0.10	2.5	cloudy	C. Dill.
Florence, Arizona	28.47	723.1	30.04	763.0	51.8	11.0	81	e.	3	1.3	.....	.....	10 s	.....	sw.	inap.	inap.	cloudy	R. R. Herman.
Fort Apache, Arizona	24.97	634.2	29.99	761.7	42	5.6	92	se.	3	1.3	.....	.....	10 s	.....	calm	0.23	5.8	cloudy	W. C. Barnes.
Fort Assinnaboine, Montana	27.10	688.3	30.11	764.8	5	—15.0	54	ne.	15	6.7	.....	.....	10 n	.....	ne.	0.04	1.0	light snow	B. O. Lenoir.
Fort Bennett, Dakota	28.35	720.1	30.05	763.3	25	— 3.9	76	nw.	4	1.8	.....	0	0	.....	.....	0	0	clear	T. Gibson.
Fort Benton, Montana	27.11	688.6	30.09	764.3	6	—14.4	100	ne.	3	1.3	.....	.....	10 n	.....	ne.	0.13	3.3	light snow	S. Wheaton.
Fort Buford, Dakota	28.02	711.7	30.16	766.1	— 2	—18.9	68	w.	7	3.1	.....	.....	10 s	.....	calm	0.07	1.8	c oudy	A. H. Bell.
Fort Custer, Montana	26.68	677.7	30.01	762.2	20	— 6.7	87	calm	0	0	.....	0	0	.....	.....	0	0	clear	V. Verge.
Fort Davis, Texas	25.12	638 0	30.00	762.0	50	10.0	77	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. Williams.
Fort Elliott, Texas	27.04	686.8	29.87	758.7	63	17.2	73	sw.	24	10.7	.....	8 k	0	sw.	.....	0	0	cloudy	W. J. Cundall.
Fort Gibson, Indian T'y	29.23	742.4	29.82	757.4	69.5	20.8	90	s.	12	5.4	.....	10 cs	0	s.	.....	inap.	inap.	cloudy	J. B. Campbell.
Fort Grant, Arizona	25.21	640.3	30.04	763.0	44	6.7	86	ne.	2	0.9	.....	.....	10 n	.....	.....	0.95	24.1	light rain	T. J. Mackowan.
Fort Griffin, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	G. H. Hayne.
Fort Keogh, Montana	27.45	697.2	30.10	764.5	18	— 7.8	58	n.	4	1.8	.....	0	0	.....	.....	0	0	clear	W. B. Stockman.
Fort Macon, North Carolina	30.32	770.1	30.33	770.4	44	6.7	83	ne.	15	6.7	.....	10 cs	0	ne.	.....	0	0	cloudy	L. Leonardy.
Fort McKavett, Texas	27.73	704.3	30.05	763.3	68.2	20.1	90	s.	8	3.6	.....	.....	8 ks	.....	.....	0	0	cloudy	J. E. Thatcher.
Fort Missoula, Montana	26.31	668.3	29.69	754.1	33	0.6	81	se.	12	5.4	.....	.....	10 s	.....	.....	0.01	0.3	cloudy	J. H. Jones.
Fort St. Michaels, Alaska	29.88	758.9	29.92	760.0	24	— 4.4	87	sw.	5	2.2	.....	0	8 s	.....	w.	0.06	1.5	fair	A. P. Leavitt.
Fort Shaw, Montana	26.22	666.0	30.02	762.5	3	—16.1	76	ne.	2	0.9	.....	0	8 s	.....	.....	0.03	0.8	cloudy	A. L. Mathews.
Fort Sill, Indian Territory	28.57	725.7	29.86	758.4	60.5	15.8	88	s.	5	2.2	.....	8 c	2 s	w.	.....	0	0	cloudy	T. Cleary.
Fort Stevenson, Dakota	28.08	713.2	30.06	763.5	2	—16.7	75	nw.	26	11.6	.....	0	2 s	.....	nw.	0.13	3.3	clear	W. Burrows.
Fort Verde, Arizona	.....	.....	.....	.....	48.3	9.1	71	sw.	.....	.....	1	0	8 s	.....	sw.	0	0	cloudy	D. Brooks.
Fort Washakie, Wyoming	24.31	617.5	.....	.....	13.8	—10.1	70	se.	3	1.3	.....	0	0	.....	.....	0	0	clear	T. M. Ambler.
Fredericksburg, Texas	28.17	715.5	29.93	760.2	68	20.0	84	s.	11	4.9	.....	5 cs	0	.....	.....	0	0	fair	H. S. Miles.
Galveston, Texas	29.94	760.5	29.98	761.5	72	22.2	90	s.	12	5.4	.....	0	3 ks	.....	s.	0	0	clear	E. O'C. MacInerney.
Grand Haven, Michigan	29.03	737.3	29.73	755.1	38.5	3.6	89	e.	8	3.6	.....	.....	10 n	.....	.....	0.09	2.3	light rain	W. A. Reid.
Hatteras, North Carolina	30.30	769.6	30.32	770.1	43	6.1	83	ne.	12	5.4	.....	0	9 s	.....	n.	0	0	cloudy	R. M. Crawford.
Helena, Montana	25.52	648.2	29.90	759.4	20	— 6.7	46	ne.	2	0.9	.....	0	0	.....	.....	0.02	0.5	clear	N. C. Smith.
Henrietta, Texas	28.92	734.6	29.96	761.0	66	18.9	84	sw.	9	4.0	.....	0	5 s	.....	.....	0	0	fair	J. W. Byram
Huron, Dakota	28.53	724.6	30.01	762.2	28	— 2.2	64	nw.	17	7.6	.....	0	6 k	.....	nw.	0	0	fair	S. W. Glenn.
Indianapolis, Indiana	28.94	735.1	29.78	756.4	52	11.1	86	s.	6	2.7	.....	5 cs	5 s;fg	sw.	sw;c	1.35	34.3	cloudy	O. Schutze
Indianola, Texas	29.91	759.7	29.94	760.5	72.0	22.2	84	s.	15	6.7	.....	0	5 k	.....	s.	0	0	fair	I. A. Reed.
Jacksboro, Texas	28.73	729.7	29.94	760.5	68	20.0	84	sw.	12	5.4	.....	.....	10 ks	.....	s.	0	0	cloudy	J. P. Sherry.
Jacksonville, Florida	30.18	766.6	30.23	767.8	59	15.0	93	ne.	2	0.9	.....	4 cs	fg	.....	.....	0	0	fair	J. W. Smith.
Keokuk, Iowa	28.95	735.3	29.64	752.8	50.0	10.0	93	nw.	8	3.6	.....	.....	10 s	.....	nw.	0.32	8.1	cloudy	F. Z. Gosewisch
Key West, Florida	30.16	766.1	30.18	766.6	72.8	22.7	71	e.	7	3.1	.....	0	4 k	.....	e.	0	0	fair	L. M. Melbourne.
Kittyhawk, North Carolina	30.33	770.4	30.35	770.9	42	5.6	69	e.	13	5.8	.....	5 ck	4 s	n.	e.	0	0	cloudy	E. A. Beals.
Knoxville, Tennessee	29.07	738.4	30.13	765.3	48.2	9.0	100	n.	1	0.4	.....	.....	10s;fg	.....	.....	0.64	16.3	cloudy	J. A. Cody.
La Crosse, Wisconsin	28.90	734.0	29.72	754.9	36	2.2	89	n.	5	2.2	.....	.....	fg.	.....	.....	0.23	5.8	dense fog	S. C. Emery.
La Mesilla, New Mexico	26.05	661.7	30.00	762.0	46.8	8.2	68	calm	0	0	.....	0	5 s	.....	.....	0	0	fair	N. D. Lane.
Leavenworth, Kansas	28.93	734.8	29.87	758.7	44	6.7	68	n.	20	8.9	.....	6 cs	0	w.	.....	0	0	fair	A. W. Browne.
Lewiston, Idaho	28.69	728.7	29.55	750.6	36	2.2	66	e.	2	0.9	.....	.....	10 s	.....	.....	0.05	1.3	cloudy	W. Blake.
Little Rock, Arkansas	29.54	750.3	29.87	758.7	70	21.1	84	s.	14	6.3	.....	.....	10 s	.....	s.	0	0	cloudy	M. F. Burrows.
Los Angeles, California	29.74	755.4	30.14	765.5	45.1	7.3	76	nw.	5	2.2	.....	0	0	.....	.....	0	0	clear	E. F. Kubel.
Louisville, Kentucky	29.26	743.2	29.85	758.2	61	16.1	84	s.	9	4.0	.....	.....	10 s	.....	.....	0.63	16.0	cloudy	H. C. Smith.
Lynchburg, Virginia	29.60	751.8	30.32	770.1	37.5	3.1	85	ne.	1	0.4	.....	.....	10 n	.....	.....	0.37	9.4	light rain	T. H. Breen.
Madison, Wisconsin	28.61	726.7	29.68	753.9	35	1.7	89	n.	7	3.1	.....	.....	fg.	.....	calm	0.40	10.2	dense fog	O. A. Shaw.
Marquette, Michigan	29.00	736.6	29.77	756.1	34	1.1	89	se.	8	3.6	.....	.....	10 s	.....	se.	0.02	0.5	cloudy	I. Gilligan.
Mason, Texas	28.38	720.8	30.07	763.8	71	21.7	84	calm	0	0	.....	.....	10 s	.....	s.	0	0	cloudy	A. M. Wilson.
Memphis, Tennessee	29.58	751.3	29.93	760.2	70	21.1	76	s.	8	3.6	.....	.....	10 s	.....	s.	inap.	inap.	cloudy	D. T. Flannery.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–01	0–10	0–10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Milwaukee, Wisconsin	28.86	733.0	29.65	753.1	42	5.6	100	se.	6	2.7			fg.			0.27	6.9	dense fog	W. Line.
Mobile, Alabama	30.07	763.8	30.11	764.8	68.8	20.4	90	sw.	5	2.2		2 k	4 ks	sw.	sw.	0	0	fair	J. D. Paxton.
Montgomery, Alabama	29.89	759.2	30.13	765.3	64.4	18.0	86	se.	8	3.6			10 s	w.	0	0		threatening.	J. B. McLaughlin.
Moorhead, Minnesota	28.80	731.5	29.88	758.9	15	— 9.4	83	nw.	28	12.5		0	0			0.11	2.8	clear	H. Bessant.
Morgantown, W. Virginia	28.99	736.3	30.05	763.3	41.0	5.0	92	se.	18	8.0			10 n			0.48	12.2	light rain	J. Sprigg, jr.
Mt. Washington, N. H.	23.87	606.3	30.39	771.9	9.0	—12.8	83	ne.	25	11.2		0	4 s		ne.	0	0	fair	J. G. Linsley.
Nashville, Tennessee	29.41	747.0	29.97	761.2	65.5	18.6	84	s.	8	3.6			10 ks		sw.	1.08	27.4	cloudy	L. A. Jesunofsky.
New Haven, Connecticut	30.28	769.1	30.40	772.1	26	— 3.3	64	ne.	21	9.4		5 c	0	w.		0	0	fair	J. H. Sherman.
New London, Connecticut	30.35	770.9	30.40	772.1	29	— 1.7	56	n.	15	6.7		3 ck	0	w.		0	0	fair	J. G. Lynch.
New Orleans, Louisiana	30.00	762.0	30.06	763.5	68.8	20.4	91	se.	3	1.3		0	9 s		se.	0	0	cloudy	A. J. Armstrong.
Newport, Rhode Island	30.31	769.9	30.36	771.1	27.8	— 2.3	68	n.	16	7.2		0	0			0	0	clear	W. McGillivray.
New River, N. Carolina					40	4.4	100	ne.			1		10 n		e.	0.05	1.3	light rain	C. C. Corbin.
New Shoreham, Rhode I'd.	30.26	768.6	30.29	769.4	29.0	— 1.7	77	ne.	32	14.3		3 ck	0	ne.		0	0	clear	W. Davis.
New York, New York	30.22	767.6	30.40	772.1	30	— 1.1	56	ne.	12	5.4		0	4 s			0	0	fair	E. B. Garriott.
Norfolk, Virginia	30.33	770.4	30.36	771.1	42	5.6	65	e.	2	0.9			10 s			0	0	cloudy	J. T. Elker.
North Platte, Nebraska	27.00	685.8	30.06	763.5	38.6	3.7	68	nw.	5	2.2			10 s			0	0	cloudy	E. F. Brady.
Olympia, Washington T'y	29.43	747.5	29.47	748.5	30.5	— 0.8	94	s.	1	0.4		0	8 s		calm	0.63	16.0	cloudy	J. Dascomb.
Omaha, Nebraska	28.69	728.7	29.94	760.5	37.0	2.8	82	n.	12	5.4		10 cs	0	w.		0	0	cloudy	A. Pollak.
Ooglaamie, Pt. Barrow, Alas.	30.15	765.8	30.17	766.3	— 8.2	—22.3	87	ese.	26	11.6			10 s			0	0	cloudy	P. H. Ray.
Oswego, New York	29.93	760.2	30.27	768.8	31.0	— 0.6	62	se.	16	7.2		4 cs	0			0	0	fair	S. W. Beall.
Palestine, Texas	29.42	747.3	29.99	761.7	71	21.7	82	s.	12	5.4			10 s			0	0	cloudy	L. M. Pindell.
Pensacola, Florida	30.10	764.5	30.13	765.3	68.4	20.2	95	s.	5	2.2		0	4 s		sw.	0	0	fair	M. McGauran.
Philadelphia, Pa	30.30	769.6	30.40	772.1	33	0.6	60	ne.	12	5.4		6 ck	0	nw.		0	0	fair	T. F. Townsend.
Pike's Peak, Colorado	17.46	443.5	30.05	763.3	6.5	—14.2	100	sw.	8	3.6			10 n		sw.	inap.	inap.	light snow	L. M. Dey.
Pioche, Nevada	23.93	607.8	30.07	763.8	21	— 6.1	61	s.	5	2.2		0	0			0.07	1.8	clear	C. K. Kitchel.
Pittsburg, Pennsylvania	29.22	742.2	30.07	763.8	39.0	3.9	86	e.	8	3.6			10 n		e.	0.24	6.1	light rain	J. H. Bryce.
Port Eads, Louisiana	30.09	764.3	30.10	764.5	69.0	20.6	92	s.	12	5.4		0	hz.			inap.	inap.	clear	H. G. Christian.
Port Huron, Michigan	29.19	741.4	29.91	759.7	34.8	1.6	83	se.	9	4.0			10 s			0.31	7.9	cloudy	W. O. Bailey.
Portland, Maine	30.42	772.7	30.47	773.9	23.5	— 4.7	67	ne.	22	9.8			10 s		n.	0	0	cloudy	D. C. Murphy.
Portland, Oregon	29.45	748.0	29.52	749.8	35.0	1.7	79	s.	10	4.5		5 cs	1 s	sw.	s.	0.66	16.8	fair	M. L. Hearne.
Portsmouth, N. Carolina					41	5.0	73	ne.	11	4.9			10 ks		ne.	0	0	cloudy	F. P. Chaffee.
Prescott, Arizona	24.67	626.6	30.01	762.2	35	1.7	61	s.	2	0.9		0	4 s		s.	0	0	fair	J. McN. Wright.
Provincetown, Mass	30.33	770.4	30.36	771.1	28	— 2.2	88	n.	28	12.5			10 s			0.03	0.8	light snow	P. T. Jenkins.
Punta Rassa, Florida	30.18	766.6	30.19	766.8	65	18.3	90	e.	5	2.2		1 c	hz.	calm		0	0	clear	W. J. Evans.
Red Bluff, California	29.46	748.3	29.84	757.9	43.2	6.2	89	se.	14	6.3			10 s			0.03	0.8	cloudy	J. M. Frantz.
Rio Grande City, Texas	29.64	752.8	29.88	758.9	73	22.8	84	se.	10	4.5		0	5 s		se.	0	0	fair	W. H. Taylor.
Rochester, New York	29.49	749.0	30.19	766.8	34	1.1	72	se.	26	11.6		10 cs	0	w.		0	0	cloudy	A. T. Sherwood.
Roseburg, Oregon	29.09	738.9	29.65	753.1	35	1.7	89	sw.	2	0.9			10 n			0.82	20.8	light snow	J. J. Nanry.
Sacramento, California	29.94	760.5	30.02	762.5	44.4	6.9	83	se.	12	5.4			10 n			0.09	2.3	light rain	J. A. Barwick.
St. Louis, Missouri	29.08	738.6	29.71	754.6	63.9	17.7	78	s.	21	9.4			10 s		sw.	0.04	1.0	cloudy	J. H. Webber.
St. Paul, Minnesota	28.86	733.0	29.78	756.4	37.0	2.8	82	w.	4	1.8			10 s		w.	0.07	1.8	cloudy	O. S. M. Cone.
St. Vincent, Minnesota	28.85	732.8	29.79	756.7	8	—13.3	100	nw.	36	16.1			10 s		calm	0.23	5.8	cloudy	G. Kingsbury.
Salt Lake City, Utah	25.56	649.2	30.08	764.0	21	— 6.1	48	se.	2	0.9		0	0			0.09	2.3	clear	J. Craig.
San Antonio, Texas	29.23	742.4	29.94	760.5	65.5	18.6	84	calm	0	0			10 ks		s.	0	0	cloudy	E. Lane.
San Diego, California	30.01	762.2	30.09	764.3	42.5	5.8	88	ne.	7	3.1		0	0			0.03	0.8	clear	A. C. Dobbins.
Sandusky, Ohio	29.17	740.9	29.89	759.2	44	6.7	93	s.	12	5.4			10 n			0.29	7.4	light rain	M. H. Perry.
Sandy Hook, New Jersey	30.36	771.1	30.40	772.1	33.0	0.6	68	ne.	21	9.4		0	0			0	0	clear	B. A. Blundon.
San Francisco, California	29.96	761.0	30.04	763.0	48	8.9	86	s.	8	3.6			10 n		s.	0.12	3.0	light rain	N. Gorom.
Santa Fé, New Mexico	23.11	587.0	30.09	764.3	37.2	2.9	66	sw.	5	2.2			10 s			0	0	threatening	H. N. Jones.
Savannah, Georgia	30.13	765.3	30.22	767.6	60	15.6	81	se.	4	1.8		8 ck	hz.	w.		0	0	cloudy	H. M. Ford.
Shreveport, Louisiana	29.71	754.6	29.96	761.0	70	21.1	78	sw.	4	1.8			10 s			0	0	cloudy	E. N. Meekins.
Silver City, New Mexico	24.20	614.7	29.98	761.5	40	4.4	92	nw.	3	1.3			10 n		calm	0.31	7.9	light rain	J. B. Wallace.
Sitka, Alaska	30.15	765.8	30.21	767.3	21.5	— 5.8	62	ne.	10	4.5		0	0			0	0	clear	J. J. McLean.
Smithville, North Carolina	30.26	768.6	30.30	769.6	51	10.6	80	e.	11	4.9			10 s			0	0	cloudy	J. C. Rickli.
Spokane Falls, Wash. Ter.	27.46	697.5	29.58	751.3	33	0.6	88	se.	11	4.9			10 n			0.13	3.3	light snow	D. Moore.
Springfield, Illinois	28.96	735.6	29.68	753.9	57	13.9	86	s.	7	3.1		1 ck	8 s	w.	sw.	0.83	21.1	cloudy	T. B. Jennings.
Springfield, Massachusetts	30.30	769.6	30.44	773.2	29.0	— 1.7	61	ne.	10	4.5		2 c	0			0	0	clear	T. S. Outram.
Springfield, Mo.	28.31	719.1	29.87	758.7	66	18.9	84	sw.	14	6.3			10 s		sw.	inap.	inap.	cloudy	J. B. Marbury.
Stockton, Texas	26.92	683.8	30.00	762.0	50.0	10.0	86	sw.	4	1.8		0	2 s		sw.	0	0	clear	J. O'Dowd.
Thatcher's Island, Mass.	30.34	770.6	30.40	772.1	26.0	— 3.3	88	ne.	35	15.6			10 s		ne.	0	0	cloudy	G. Liebmann.
Toledo, Ohio	29.13	739.9	29.86	758.4	39.8	4.3	89	n.	10	4.5			10s;fg			0.14	3.6	threatening	A. Buell.
Tucson, Arizona	27.55	699.8	30.01	762.2	52	11.1	93	calm	0	0			10 n			0.57	14.5	light rain	J. L. Whiteside.
Umatilla, Oregon	29.20	741.7	29.58	751.3	34.5	1.4	83	s.	2	0.9			10 s		sw.	0.01	0.3	cloudy	R. P. Sibley.
Uvalde, Texas	28.92	734.6	29.90	759.4	70	21 1	90	se.	4	1.8			10 s		se.	0	0	cloudy	E. C. Imlay.
Vicksburg, Mississippi	29.77	756.1	30.03	762.7	70	21.1	79	s.	6	2.7			10s		s.	0	0	cloudy	T. J. Kenan.
Visalia, California	29.71	754 6	30.09	764.3	39.8	4.3	80	se.	4	1.8		0	0			0	0	clear	J. T. Cochran.
Washington, D. C.	30.27	768.8	30.39	771.9	38	3.3	82	calm	0	0			10 s		se.	0	0	cloudy	B. M. Pursell.
West Las Animas, Colorado	25.96	659.4	30.04	763.0	35	1.7	72	ne.	2	0.9		0	3 s		calm	0	0	clear	J. Grover.
Wickenburg, Arizona					36	2.2	79	nw.			1	2 c	0	w.		0	0	clear	H. A. Kremp.
Williamsport, Pa	29.68	753.9	30.31	769.9	37.1	2.8	61	s.	8	3.6			10 ks		s.	0	0	cloudy	B. F. Hough.
Wilmington, N. Carolina	30.25	768.3	30.31	769.9	47	8.3	77	e.	6	2.7			10 s		se.	0	0	cloudy	S. A. Haney.
Winnemucca, Nevada	25.34	643 6	29.84	757.9	31	— 0.6	51	se.	30	13.4		0	0			0	0	clear	J. R. Williams.
Yankton, Dakota	28.61	726.7	30.00	762.0	34	1.1	71	nw.	11	4.9		10 ck	0			0	0	cloudy	J. H. Atfield.
Yuma, Arizona	29.82	757.4	29.97	761.2	50.8	10.4	61	calm	0	0		0	2 s			0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.01	559.0			56.5	13.6	77	se.	1	0.4			8 n;s		nw	0	0	cloudy	Joaquin Gomez.
Bridgetown, Barbados, W.I.	30.05	763.3	30.06	763.5	79	26.1	82	e.				5 k	5 ks	e.	e.	0	0	fair	J. A. Racker.
Buenaventura, U. S. C.	29.91	759.7	29.93	760.2	77	25.0	90	n.	3	1.3			10 ks			0.01	0.3	cloudy	J. I. Plume.
Guadeloupe, W. I.	29.98	761.5	30.00	762.0	76	24.4	87	e.				9 c	0			0.197	5.0		B. Bigar.
Havana, Cuba, W. I.	30.14	765.5	30.19	766.8	74	23.3	76	calm	0	0		0	2 ks		calm	0	0	fair	A. Van Caneghem.
Kingston, Jamaica, W. I.	30.06	763.5	30.07	763.8	69.0	20.6	88	calm	0	0		0	0			0	0	fine	Robert Johnston.
Navassa	30.08	764.0	30.16	766.1	75	23.9	76	ne.	23	10.3		5 ck	2 s	e.	ne.	0	0		F. M. Everett.
Paramaribo, S. A.	30.06	763.5	30.06	763.5	77	25.0	86	e.			3	5 k	7 ps	e.		0	0		Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.43	747.5	29.89	759.2	79	26.1	82	ne.			1	2 ck	5 ks	calm	calm	0	0	fair	Miss Flora A. Nichols.
Rivas							94	ne.			6	c	0	sw.		0	0	clear	Robert Mason.
Santiago de Cuba, W. I.	30.01	762.2	30.04	763.0	74	23.3	67	n.	6	2.7		0	2 s		ne.	0	0	fair	
York Factory, B. A.	29.50	749.3	29.55	750.6	10.0	—12.2	100	n.	26	11.6			10 n		n.	0.10	2.5	snowing	W. Wood.

STATIONS AND VESSELS.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.			Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Amount and kind.		Direction.						
								Force.	Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
BRITISH NAVAL.																		
H. M. S. Agincourt, N. 39° 50′, E. 4° 28′	30.43	772.9	62	16.7	88	calm			0		0							blue sky.
H. M. S. Albatross, Canton, China	29.99	761.7	72	22.2		se.			3		9	s.						d. clouds.
H. M. S. Alert, S. 5° 06′ E. 53° 19′	29.92	760.0	88	31.1	69	e.			1–2		3							d. clouds.
H. M. S. Alexandra, Malta, Mediterranean	30.34	770.6	66	18.9	73	nne.			1		1							blue sk
H. M. S. Bacchante, Alexandria, Egypt	30.09	764.3	63	17.2	72	w.			2		3	wnw.						d. clouds.
H. M. S. Boadicea, S. 34° 14′, E. 18° 28′	30.04	763.0	68	20.0	64	e.			4–5		2	ese.				5	e.	d. clouds.
H. M. S. S. S. Champion, S. 33° 40′ W. 78° 00′	30.02	762.5	65	18.3	?	sw.			2		10	calm				4	sw.	d. clouds.
H. M. S. Cleopatra, N. 15° 41′ E. 41° 31′	29.92	760.0	80	26.7	86	nw.			3–4		2	nnw.				1	nnw.	d. clouds.
H. M. S. Comus, Labuan Island, Borneo	29.91	759.7	79	26.1	100	wnw.			1		3							d. clouds.
H. M. S. Diamond, S 35° 36′, E. 103° 15′	30.10	764.5	63	17.2	88	e.			3–4		10					1	e.	overcast.
H. M. S. Dido, N. 15° 20′, W. 61° 20′	30.11	764.8	75	23.9		var.			1		0							blue sky.
H. M. Dock-Yard, Bermuda, W. I.	29.92	760.0	60	15.6	66	wnw.			4–5		5	wnw.						squally.
H. M. S. Dwarf, S. 34° 54′, W. 56° 10′	29.95	760.7	71	21.7	80	ne.			1		0					1	ne.	blue sky.
H. M. S. Eclipse, S. 16° 00′, E. 45° 28′	29.93	760.2	82	27.8		wnw.			1–2		3							d. clouds.
H. M. S. Fawn, N. 15° 04′, E. 42° 14	29.85	758.2	79.5	26.4	74	nnw.			3		2	ne.					nnw.	misty.
H. M. S. Flying Fish, N. 34° 41′, E. 135° 12′	29.97	761.2	58	14.4	87	calm			0		8	n.						misty
H. M. S. Gannet, S. 33° 37′, W. 78° 49′	30.02	762.5	70	21.1	75	sw.			1–6		10					2	sw.	squally.
H. M. S. Garnet, S. 43° 37′ W. 62° 15′						ne.			8		10					8	n.	misty.
H. M. S. Inconstant, S. 19° 40′ E. 84° 00′	29.91	759.7	75	23.9	86	ese.			3–4		7	e.				2	e.	showery.
H. M. S. Iron Duke, N. 22° 16′, E. 114° 10′	29.95	760.7	72	22.2	100	e.			1		3	e.						d. clouds.
H. M. S. Lark. S. 35° 36′, E. 174° 59′	30.03	762.7	69.3	20.7		nne.			2		4					3	ne.	d. clouds.
H. M. S. Liffey, Coquimbo, Chili	29.93	760.2	61	16.1		calm			0		10							overcast.
H. M. S. Magpie, N. 25° 59′, E. 119° 27′	29.91	759.7	72.1	22.3	73	n.			1–2		6							misty.
H. M. S. Malabar, N. 25° 30′, E. 35° 16′	30.04	763.0	66	18.9	90	n.			2–3		3	nnw.				3	nw.	d. clouds.
H. M. S. Oronte , N. 12° 08′, E. 45° 55′	29.83	757.7	79.5	26.4	87	ene.			2		0					1	ne.	blue sky.
H. M. S. Rambler, Cabinda, Lower Guinea	29.92	760.0	82	27.8		sw.			1		9	ssw.						d. clouds.
H. M. S. Ready, Muscat, Arabia	29.72	754.9	81.1	27.3		se.			2		5							d. clouds.
H. M. S. Rocket, Vancouver Island, British Columbia	29.37	746.0	33	0.6	89	calm			0		9							raining.
H. M. S. Serapis, N. 49° 50′ W. 4° 08′	30.36	771.1	56	13.3	87	wnw.			1		0					1	wsw.	blue sky.
H. M. S. Tamar, N. 37° 12′ E. 7° 40′	30.35	770.9	66.5	19.2	100	e.			1		1					1	ese.	blue sky.
H. M. S. Tenedos, N. 21° 05′ W. 71° 26′	30.16	766.1	74	23.3	76	ne.			1		1					sm'h		blue sky.
H. M. S. Thalia, S. 16° 22′, W. 30° 11′	30.12	765.0	79	26.1		e.			3		2					2	e.	squally.
H. M. S. Triumph, Juan Fernandez Island, S. A	30.02	762.5	70	21.1	79	ssw.			1–3		6	ssw.						squally.
H. M. S. Woodlark, Bombay, India	29.89	759.2	85.5	29.7	61	nw.			2–3		0							misty.
PORTUGUESE NAVAL.																		
Quanza, Santiago, Cape Verd Islands	30.04	763.1	80.6	27.0	56	ne.			3		8		sw.			2	ne.	foggy.
UNITED STATES NAVAL.																		
Navy Yard, Pensacola, Fla	30.08	764.0	69	20.6	95	sw.	8	3.6			2		sw.	0	0			fair.
Naval Hospital, Portsmouth, N. H.	30.43	772.9	23	— 5.0	?	ne.	19	8.5			9		ne.	0	0			cloudy.
Naval Hospital, Yokohama, Japan	29.87	758.7	53	11.7	67	calm			0		0			0	0			clear.
Adams, Callao, Peru	29.69	754.1	69	20.6	95	sse.			1		10					gr'd		cloudy.
Alaska, Valparaiso, Chili	29.90	759.4	61	16.1	82	calm			0		0			0	0	sm'h		clear.
Alert, Manila, Philippine Islands*	29.83	757.7	79	26.1	78	ese.			4		2		calm			sm'h		clear.
Alliance, N. 16° 50′, W. 70° 30′	29.96	761.0	75	23.9	81	ne.			4		5			0	0	sm'h		fair.
Ashuelot, Chefoo, China	29.77	756.1	43	6.1	100	e.			2		2		calm			sm'h		fair.
Brooklyn, S. 39° 45′ W. 55° 36′	30.01	762.2	54	12.2	93	n.	2	0.9			8		calm	0.05	1.3	mod.	v	hazy.
Colorado, New York, N. Y.			31	— 0.6		ne.	14	6.3			2		ne.	0	0			clear.?
Enterprise, Santa Lucia, W. I*	30.03	762.7	76	24.4	86	se.			1–2		5?							clear.
Essex, N. 19° 36′, W. 19° 04′	29.96	761 0	79	26.1	95	ne.			1		0					sm'h	ne.	cloudy.
Franklin, Norfolk, Va	30.37	771.4	45	7.2	76	ne.	2	0.9			10		ne.	0	0			hazy.
Galena, Palermo, Sicily	30.36	771.1	64	17.8	78	ne.			1		0					sm'h		cloudy.
Independence, Mare Island, Cal	29.88	758.9	45	7.2	92	sse.			5		8		se.	0.16	4.1			clear.
Kearsage, N. 24° 08′, W. 85° 40′	30.14	765.5	27	— 2.8	73	ese.			4		0					sm'h		clear.
Lackawanna, Valparaiso, Chili†	30.03	762.7	62	16.7	100	calm			0		0							misty.
Lancaster, Piraeus, Greece*	30.15	765.8	69	20.6	52	ssw.			2		0			0	0			clear.
Marion, S. 33° 54′, E. 180 24′ *†	30.13	765.3	69	20.6	85	nw.			1		2		e.			sm'h		raining.
Michigan, Erie, Pa	29.96	761.0	40	4.4	91	sw.			6		10		n.					clear.
Minnesota, Newport, R. I.	30.37	771.4	30	— 1.1		nne.	20	8.9			2		n.					clear.
Monocacy, N. 35° —′, E. 139° 50′	30.04	763.0	61	16.1	77	w.			1		0							squally.
New Hampshire, Newport, R. I.	30.33	770.4	30	— 1.1	78	nne.			6		2					mod.	nne.	clear.
Nipsic, N. 35° 54′, W. 5° 52′	30.32	770.1	64	17.8	73	ene.			4		0					sm'h		cloudy.
Onward. Callao, Peru†	30.05	763.3	67	19.4	95	sse.			2		10		n.			long	w.	overcast.
Palos, Nagasaki, Japan	29.98	761.5	62	16.7	83	s.			2		10		calm					cloudy.
Passaic, Washington, D. C.	30.40	772.1	36	2.2	90	ne.			1		10		calm					fair.
Pensacola, S. 12° 55′ W. 77° 06′	29.92	760.0	68	20.0	84	se.			2		8		nw.	0	0	mod.	sse.	cloudy.
Powhatan, St. Lucia, W. I.	30.07	763.8	80	26.7	74	ese.			1		8		ese.					clear.
Quinnebaug, N. 37° 20′, E. 24° 57′	30.18	766.6	69	20.6	38	ene.			2		0					sm'h		hazy.
Ranger, N. 18° 03′, W. 102° 48′*	29.89	759.2	72	22.2	85	ne.			0–1		2		calm	0	0	long	w.	fair.
Richmond, Yokohama, Japan *	29.94	760.5	56	13.3	81	calm			0		5			0	0			fair.
Shenandoah, N. 11° 57′, W. 53° 39′ *	30.15	765.8	77	25.0	77	ene.			3		5		ene.			sm'h		clear.
St. Louis, League Island, Pa	30.60	777.2	32	0.0	100	ne.	7	3.1			0			0	0			misty.
Swatara, Kobe, Japan*	29.84	757.9	61	16.1	66	calm			0		10		calm			sm'h		foggy.
Tennessee, New Orleans, La*†	30.12	765.0	70	21.1	100		2	0.9			8			0	0			fair.
Vandalia, Key West, Florida†	30.26	768.6	74	23.3	81	e.			1		2		e.					cloudy.
Wabash, Boston, Mass.	30.44	773.2	27	— 2.8		n.	9	4.0			8		n.	0	0			squally.
Wachusetts, Sitka, Alaska	30.14	765.5	20	— 6.7		n.			4		0					sm'h		overcast.
Wyoming, Port Royal, S. C.	30.21	767.3	60	15.6	88	calm	0	0			10		sw.	0	0			fair
Yantic, N 26° 35′ W. 90° 49′*	30.01	762.2	73	22.8	85	sse.			4		8		sse.			sm'h		

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
										Upper.	Lower.	Upper.	Lower.					
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ALLEN LINE.																		
S. S. Peruvian, N. 50° 10′, W. 21° 55′*	30.02	762.5	41	5.0	.....	n.	.....	.....	4	.....	8	.....	n.	0	0	mod.	nw.	cloudy.
S. S. Polynesian, 43° 16′, W. 57° 51′*	30.18	766.6	34	1.1	.....	ene.	.....	.....	7	.....	3	.....	ene.	0	0	long	e.	clear.
S. S. Prussian, N. 51° 17′, W. 24°, 18′*	30.29	769.4	44	6.7	.....	nnw.	.....	.....	3	.....	10	.....	nw.	.....	.....	mod.	nw.	cloudy.
S. S. Scandinavian, N. 42° 57′, W. 55° 01′*.....	30.36	771 1	36	2.2	.....	ne.	.....	.....	6	.....	9	.....	ne.	0	0	.....	ne.	d. clouds.
S. S. Waldensian, Glasgow, Scotland*.....	30.21	767.3	50	10.0	.....	w.	.....	.....	3	.....	5?	.....	ssw.	0	0	.....	.....	overcast.†
AMERICAN STEAMSHIP COMPANY.																		
S. S. British Crown, N. 49° 44′, W. 23° 49′†.....	30.47	773 9	47	8.3	.....	ne.	.....	.....	4	.....	9	.....	ene.	2 h'r	2 h'r	mod.	nw.	showery.
S. S. Indiana, N. 39° 18′, W. 61° 02′†.....	29.90	759.4	60	15.6	76	ese.	.....	.....	4	.. ..	10	.....	.....	mod.	mod.	h'vy	e.	overcast.
ANCHOR LINE.																		
S. S. Utopia, N. 34° 25′, W. 24° 48′*†.....	30.32	770.1	67	19.4	89	se.	.....	.....	2	.....	8	.....	sw.	0	0	slight	nw.	cloudy.
ATLAS LINE.																		
S. S. Ailsa, Savanilla, U. S. C.†.....	29.92	760.0	76	24.4	90	ne.	.....	.....	3–4	.....	0	.....	.....	0	0	.....	.....	fine.
S. S. Alvo, N. 29° 55, W. 74° 10′.....	30.30	769.6	62	16.7	.....	n.	.....	.....	1	.....	5	.....	n.	½ h'r	½ hr	high	n.	fine.
S. S. Arden, N. 29° 45′, W. 69° 20′.....	.....	.....	68	20.0	.....	nne.	.....	.....	2	.....	2	.....	nne.	.....	.....	mod.	nne.	clear.
S. S. Athos, N. 24° —′, W. 74° 30′.....	30.05	763.3	.....	.....	.....	e.	.....	.....	1	.....	2	.....	e.	0	0	.....	e.	clear.
BOSTON AND HALIFAX LINE.																		
S. S. Carroll, Halifax, N. S.†.....	30.48	774.2	36	2.2	?	ene.	.....	.....	.....	.....	.....	.....	.....	snow	snow	.....	.....	snowing.
BRITISH METEOROLOGICAL OFFICE.																		
S. Auckland, N. 13° 32′, W. 40° 19′	30.13	765.3	75	23.9	.....	ene.	.....	.....	5	.....	5	.....	.....	.....	.....	.....	.....	blue sky.
S. Baroda, S. 41° 24′, E. 73° 31′.....	30.24	768.1	51.5	10.8	86	sw;s.	.....	.....	6	.....	9	.....	.....	.....	.....	.....	.....	d. clouds.
British Merchant, N. 17° 02′, E. 90° 18′.....	29.88	758.9	82.8	28.2	75	s.	.....	.....	1	.....	0	.....	.....	.....	.....	.....	.....	misty.
Caldew, N. 10° 10′, W. 36° 20′.....	30.09	764.3	77	25.0	.....	nne.	.....	.....	6	.....	4	.....	.....	... .	.....	.....	.....	d. clouds.
Bk. Commewyne, N. 25° 26′, W. 63° 10′.....	30.07	763.8	69.3	20.7	59	nw.	.....	.....	4	.....	4	.....	.....	.....	.....	.....	.....	d. clouds.
Bk. Coppename. N. 46° 26′, W. 22° 38′.....	30.16?	766.1?	58	14.4	82	wsw.	.....	.....	4	.....	8	.....	.....	.....	.....	.....	.....	d. clouds.
S. S. Gordon Castle, N. 5° 08′, E. 97° 52′.....	29.86	758.4	84.5	29.2	81	ese.	.....	.....	2	.....	2	.....	.....	.....	.....	.....	.....	d. clouds.
S. S. Humboldt, N. 50° 46′, W. 16° 43′.....	30.21	767.3	50	10.0	93	w.	.....	.....	2	.....	9	.....	.....	.....	.....	.....	.....	misty.
S. Lochee, N. 30° 50′, W. 42° 17′.....	30.27	768.8	67	19.4	89	ne.	.....	.....	3	.....	7	.....	.....	.....	.....	.....	.....	misty.
S. S. Minho, N. 31° 24′, W. 14° 12′	30.38	771.6	66.4	19.1	74	ne.	.....	.....	3	.....	7	.....	.....	.....	.....	.....	.....	d. clouds.
S. S. Queen of Cambria, N. 18° 20′, E. 90° 19′.....	29.86	758.4	82.2	27.9	75	s.	.....	.....	2	.....	1	.....	.....	.....	.....	.....	.....	blue sky.
CROMWELL LINE.																		
S. S. New Orleans, N. 27° 15′, W. 79° 45*†.....	30.25	768.3	68	20.0	.....	e.	.....	.....	.....	.....	2	.....	e.	.....	.....	r'gh	ne.	clear.
CUNARD LINE.																		
S. S. Gallia, N. 42° 58′ W. 51° 44′	30.57	776.5	32	0.0	?	ne.	.....	.....	5–6	.....	5	.....	e.	0	0	mod.	.....	fair.
S. S. Scythia, N. 40° 34′, W. 60° 44′†.....	29.93	760.2	57	13.9	93	ese.	.....	.....	7	.....	10	.....	ese.	24 h'r	24h'r	h'vy	ese.	heavy rain.
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. Canada, N. 49° 45′, W. 3° 30′.....	30.39	771.9	53.6	12.0	.....	n.	.....	.....	1	.....	0	.....	.....	0	0	.....	.....	clear.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Bohemia, N. 41° 15′, W. 59° 03′*†.....	29.95	760.7	.....	.....	.....	ene.	.....	.....	7	.....	8	.....	e.	light	light	r'gh	ne.	stormy.
S. S. Gellert, N. 40° 20′, W. 66° 40′.....	29.75	755.6	34	1.1	.....	n.	.....	.....	7–8	.....	10	.....	ne.	1 h'r	1 h'r	hv'y	n.	foggy.
S. S. Lessing, Hamburg, Germany.....	.....	.....	60	15.6	.....	wnw.	.....	.....	4	.....	2?	.....	nw.	0	0	.....	.....	cloudy.†
S. S. Silesia, N. 49° 35′, W. 17° 09′*†.....	30.30	769.6	51.8	11.0	.....	var.	.....	.....	3	.....	10	.....	n.	2 h'r	2 h'r	3	sw.	rainy.
S. S. Wieland, N. 42° 59′, W. 46° 54′.....	30.07	779.0	47	8.3	.....	nne.	.....	.....	3	.....	8	.....	nne.	0	0	2	n.	
JOHNSTON LINE.																		
S. S. Thanemore, N. 50° 22′, W. 23° 12′.....	30.16	766.1	.....	.....	.....	nnw.	.....	.....	4	.....	10	.....	w.	sh'rs	sh'rs	.....[w	to nw	overcast.
MALLORY LINE.																		
S. S. Colorado, N. 27° 55′, W. 89° 55′†	30.07	763.8	71	21.7	.....	sse.	.....	.....	6	.....	2	.....	sse.	0	0	mod.	sse	clear.
MERCHANTS' EXPRESS LINE.																		
S. S. Freja, N. 40° 30′, W. 49° 10′†.....	30.46	773.7	53	11.7	80	e.	.....	.....	6	.....	10	.....	e.	4 h'r	4 h'r	mod.	ene.	overcast.
S. S. Hermod, N. 49° 21′, W. 10° 05′*†.....	30.06	763.5	60.8	16.0	.....	s.	.....	.....	1	.....	1	.....	s.	0	0	sm'h	nw	fair.
NATIONAL LINE.																		
S. S. Erin, N. 40° 29′ W. 72° 57′.....	30.29	769.4	32	0.0	.....	ne.	.....	.....	3	.....	0	.....	....	0	0	sm'h	.....	fine.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S Niagara, Havana, Cuba*†.....	30.25	768 3	70	21.1	.....	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	.....	clear.
NEW YORK HERALD WEATHER SERVICE.																		
S. S. City of Amsterdam, N. 41° 49′ W. 56° 42′*†.....	30.32	770.1	52	11.1	.....	e.	.....	.....	6	.....	.. ..	.....	.....	.....	.....	.....	ese.	stormy.
S. S. Alvena, N. 18° 13′, W. 67° 12′*†.....	29.99	761.7	70	21.1	.....	n.	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	nnw.	cloudy.
S. S. Atlas, N. 37° 37′, W. 74° 08′*†.....	30.43	772.9	52	11.1	.....	ne.	.....	.....	1	.....	.....	.....	.....	.....	.....	h'vy	ne.	fine.
S. S. City of Washington, N. 33° 00′, W. 76° 34′*†	30.40	772.1	60	15.6	.....	ne.	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	sw.	light rain.
S. S. Maas, N. 45° 26′, W. 33° 50′*.....	30.30	769.6	54	12.2	.....	nw.	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	nw.	fine.
S. S. Olbers, N. 12° 00′, W. 26° 00′†*.....	30.09	764.3	74	23.3	.....	ne.	.....	.....	4–5	.....	.....	.....	.....	.....	.....	.....	ne.	fine.
NORTH GERMAN LLOYD.																		
S. S. Elbe, N. 49° 30′, W. 16° 54′.....	30.25	768.3	50.9	10.5	.....	w.	.....	.....	4	....	5	.....	w.	rain	rain	.....	nw.	
S. S. Hermann, N. 37° 37′, W. 71° 08′*†.....	30.23	767.8	44.6	7.0	.....	n.	.....	.....	6	.....	8	.....	nw.	0	0	high	e.	cloudy.
S. S. Kronprinz F. Wilhelm, N. 40° 41′ W 66° 24′.....	29.72	754 9	40.1	4.5	.....	ene.	.....	.....	6–7	.....	10	.....	.....	16 h'r	16 h'r	8	se.	overcast.
S. S. Leipzig, N. 49° 39′, W. 7° 48′	30.35	770.9	63.0	17.2	72	wsw.	.....	.....	2	.....	2	.....	wsw.	0	0	mod.	wsw.	clear.
S. S. Main, N. 48° 14′, W. 26° 27′*	30.29	769.4	46.4	8.0	.....	e.	.....	.....	2–3	.....	10	.....	e.	0	0	high	wnw.	
S. S. Mosel, N. 41° 22′, W. 64° 44′.....	29.79	756 7	42.1	5.6	.....	ne.	.....	.....	8	.....	10	.....	ne.	16 h'r	16 h'r	high	ne.	hazy.
S. S. Nurnburg, S. 1° 58′ W. 26° 14′*	30.01	762.2	84.2	29.0	79	se.	.....	.....	4	.....	3	.....	e.	2 h'r	2 h'r	4	se.	fair.
S. S. Oder, New York, N. Y.....	30.42	772.7	36.5	2.5	.....	ne.	.....	.....	3	.....	2	.....	ne.	0	0	.....	.....	fair.
S. S. Ohio, Bremerhaven, Germany.....	30.38	771.6	.....	.....	.....	s.	.....	.....	3	.....	0	.....	.....	0	0	.....	.....	clear.
S. S. Saller, N. 43° 12′, W. 52° 02′	30.63	778.0	32.0	0.0	.....	ene.	.....	.....	6	.....	10	.....	ese.	0	0	mod.	ene.	fair.
S. S. Strassburg, N. 47° 03′, W. 33° 10′.....	30.33	770.4	52.0	11.1	86	var.	.....	.....	2	.....	5?	.....	nnw.	0	0	r'gh	n.	clear.†
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Belgic, Yokohama, Japan†.....	29.80	756.9	58	14.4	76	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	.....	clear.
S. S. Gaelic, N. 27° 23′, E. 123° 41′†..... ...	29.90	759.4	70	21.1	85	ssw.	.....	.....	4	.....	3	.....	w.	.....	.....	sm'h	ssw.	clear.
S. S. Oceanic, N. 36° 43′, W. 128° 35′*.....	30.03	762.7	54	12.2	87	w.	.....	.....	5	.....	2	.....	w.	.....	.....	2	nw.	clear.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, Savannah, Ga.†.....	30.27	768.8	.....	.....	.....	calm	.....	.....	0	.....	2	.....	ssw.	0	0	.....	.....	smoky.
S. S. Seminole, N. 34° 15′. W. 76° 25′†.....	30.37	771.4	52	11.1	73	ne.	.....	.....	3	.....	8	.....	ne.	0	0	mod.	ne.	cloudy.
OREGON IMPROVEMENT COMPANY.																		
S. S. Mississippi, Seattle, Wash. Ter†.....	29.49	749.0	34	1.1	79	e.	.....	.....	1	.....	10	.....	s.	.....	.....	.....	.....	cloudy.
S. S. Willamette, N. 48° 16′, W. 124° 56′*†.....	29.47	748.5	35	1.7	63	w.	.....	.....	2	.....	5	.....	nw.	0.25	6.3	long	nnw.	d. clouds.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Oregon, San Francisco, Cal†.....	29.99	761.7	46	7.8	92	se.	.....	.....	1	.....	5	.....	se.	.....	.....	.....	.....	raining.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, San Pedro, Cal†.....	30.06	763.5	45	7.2	84	n.	.....	.....	1	.....	5	.....	nw.	.....	.....	mod.	sw.	fair.
S. S. Idaho, Seattle, Wash. Ter†.....	29.39	746.5	35	1.7	90	se.	.....	.....	2	.....	5	.....	sse.	.....	.....	.....	.....	fair.
S. S. State of California, N. 42° 50′, W. 124° 40′†.....	29.50	751.6	38	3.3	90	wsw.	.....	.....	5	.....	5	.....	w.	0	0	.....	.....	
S. S. Victoria, N. 38° 14′, W. 123° 49′†.....	29.94	760.5	50	10.0	89	sw.	.....	.....	4	.....	10	....	.....	.....	.....	light	w.	raining.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, Sydney, N. S. W	29.96	761.0	67	19.4	89	calm	.....	.....	0	.....	2	.....	.....	0	0	.....	.....	clear.
S. S. City of New York, N. 25° 50′ W. 147° 10′†.....	30.05	763.3	70	21.1	75	e.	.....	.....	2–4	.....	8	.....	.....	0	0	mod.	ne.	fair.
S. S. City of Pekin, N. 19° 53′, W. 105° 28′†.....	29.95	760.7	70	21.1	85	se.	.....	.....	2	.....	.....	.....	.....	0	0	sm'h	.....	hazy.
S. S. City of Rio de Janeiro, N. 15° 00′, W. 93° 40′†.....	30.12	765.0	80	26.7	78	nw.	.....	.....	2	.....	5	.....	n.	0	0	long	nw.	fair.
S. S. City of Sydney, Sydney, N. S. W.†.....	29.88	758.9	70	21.1	66	s.	.....	.....	5	.....	2	.....	sw.	0	0	sm'h	.....	clear.
S. S. City of Tokio, N. 33° 22′ W. 171° 50′†.....	29.79	756.7	.....	.....	.....	nw.	.....	.....	9	.....	10	.....	wnw.	2 h'r	2 h'r	high	nw.	cloudy.
S. S. Colima, N. 29° 47′, W. 116° 52′†.....	30.05	763.3	54	12.2	61	nw.	.....	.....	6	.....	10	.....	nw.	0	0	r'gh	nw.	misty.
S. S. Colon, N. 15° 09′, W. 75° 34′†.....	30.06	763.5	81	27.2	.....	ne.	.....	.....	3	.....	2	.....	nne.	.....	.....	mod.	ne.	clear.
S. S. South Carolina, Panama, Panama†.....	30.01	762.2	80	26.7	74	nnw.	.....	.....	3	.....	2	.....	n.	0	0	sm'h	.....	fine.
S. S. Zelandia, N. 31° 35′. W 141° 30′.....	30.23	767.8	50	10.0	100	ne.	.....	.....	4	.....	8	.....	e.	.....	.....	long	ne.	dull.
QUEBEC STEAMSHIP COMPANY.																		
S. S. Muriel, N. 37° 00′, W. 72° 15′.....	.....	.....	.....	.....	.....	n.	.....	.....	4	.....	8	.....	.....	0	0	long	ne.	threatening
S. S. Bermuda, N. 31 °20′, W. 70° 20′†	30.15	765.8	58	14.4	.....	nnw.	.....	.....	4	.....	10	.....	n.	3 h'r	3 h'r	long	n.	

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
										Upper.	Lower.	Upper.	Lower.					
	Inch.	Mill.	Fah.	Cent	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
RED STAR LINE.																		
S. S. Nederland, N. 44° 32′, W. 35° 05′*†	30.80	782.3	51	10.6	.....	n.	.....	.....	1	.....	1	.....	n.	0	0	mod.	nne.	clear.
S. S. Rhynland, N. 40° 16′, W. 69° 13′	30.13	765.3	35	1.7	80	nnw.	.....	.....	6	.....	10	.....	nnw.	0.02	0.5	high	nnw.	snowy.
S. S. Vaderland, N. 45° 33′, W. 35° 41′	30.30	769.6	48	8.9	.....	nnw.	.....	.....	4	.....	2	.....	nne.	0	0	long	wnw.	cloudy.
S. S. Waesland, Antwerp, Belgium	30.46	773.7	51	10.6	.....	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	.....	clear.
ROTTERDAM LINE.																		
S. S. W A Scholten, Rotterdam, Netherlands*	30.19	766.8	60.4	15.8	88	nw.	.....	.....	3	.....	2	.....	nw.	0	0	.....	.....	
THINGVALLA LINE.																		
S. S. Thingvalla, N. 58° 02′, E. 7° 03′†	30.35	770.9	43.7	6.5	.....	se.	.....	.....	2	.....	10	.....	se.	0	0	sm'h	se.	covered
WHITE STAR LINE.																		
S. S. Brittannic, N. 51° 18′, W. 15° 22′*†	30.02	762.5	50	10.0	.....	s.	.....	.....	4	.....	5	.....	w.	2 h'r	2 h'r	mod.	sw.	d. clouds.
S. S. Celtic, N. 41° 08′, W. 61° 29′*†	29.70	754.4	50	10.0	93	ese.	.....	.....	7	.....	10	.....	se.	12 h'r	12 h'r	high	se.	cloudy.
S. S. Germanic, N. 50° 03′, W. 21° 24′*†	30.41	772.4	49	9.4	.....	ne.	.....	.....	3	.....	8	.....	ne.	0	0	sm'h	nnw.	d. clouds.
WILSON LINE.																		
S. S. Romano, N. 47° 14′, W. 18° 46′*†	30.28	769.1	57	13.9	.....	ssw.	.....	.....	3	.....	2	.....	ssw.	0	0	mod.	ssw.	clear.
S. S. Salerno, N. 40° 02 W. 67° 58′†	30.01	762.2	36	2.2	.....	nne.	.....	.....	10	.....	10	.....	nne.	.....	.....	hv'y	nne.	sleeting
WINSOR LINE.																		
S. S. Catherine Whiting, Providence, R. I.†	30.41	772.4	.....	.....	.....	n.	.....	.....	3	.....	.....	.....	.....	.....	.....	.....	.....	clear.
MISCELLANEOUS.																		
Sch. Addie Fuller, Cedar Keys, Florida†	30.27	768.8	68.5	20.3	90	se.	.....	.....	3	4 cs	3s	.....	s.	0	0	.....	.....	fair.
Bk. Adelaide, S. 20° 58′, W. 39° 08′*†	30.15	765.8	81	27.2	.....	ne.	.....	.....	4	.....	1	.....	n.	0	0	light	ne.	clear.
Schr. Annie M. Smull, S. 17° 56′, W. 33° 40′*†	30.05	763.3	82	27.8	.....	e.	.....	.....	.....	.....	.....	.....	ese.	0	0	.....	ese.	clear.
Bk. Bergenseren, N. 35° 08′, W. 32° 24′†	30.29	769.4	.....	.....	.....	s.	.....	.....	3	.....	.....	.....	sw.	0	0	1	wnw.	overcast.
Bk. Celestina, N. 21° 33′, W. 38° 13′*†	30.20	767.1	.....	.....	.....	ese.	.....	.....	3	.....	2	.....	ese.	0	0	mod.	se.	
S. S. Compton, N 36° 31′, W. 74° 41′†	30.31	769.9	.....	.....	.....	ne.	.....	.....	3	.....	9	.....	nne.	0	0	long	ne.	clearing.
Bk. E. L. Pettengill, S. 25° 18′ W. 93° 39′†	30.20	767.1	.....	.....	.....	ne.	.....	.....	3	.....	10	.....	e.	0	0	sm'h	.....	overcast.
S. Enoch Train, Off Bremerhaven, Germany*	30.21	767.3	.....	.....	.....	se.	.....	.....	1	.....	0	.....	.....	0	0	.....	.....	clear.
Festina Lente, Weser river, Germany*	30.33	770.4	.....	.....	.....	ese.	.....	.....	3	.....	0	.....	.....	0	0	.....	.....	hazy.
U. S. F. C. S. FishHawk, Annapolis, Md †	30.42	772.7	38	3.3	81	e.	.....	.....	4	.....	8	.....	e.	.....	.....	.....	.....	cloudy.
Bk. Freya, Baltimore, Md	.....	.....	42	5.6	.....	ene.	.....	.....	2	.....	10	.....	sw.	.....	.....	.....	.....	raining.
S. Grecian, N. 3° 04′, W. 26° 40′*†	30.03	762.7	82	27.8	.....	calm	.....	.....	0	.....	7	.....	ne.	1 h'r	1 h'r	sm'h	.....	threatening
Bk. Geo. Booth, S. 36° 24′, E. 2° 40′*†	30.10	764 5	.....	.....	.....	sw.	.....	.....	3	.....	10	.....	.....	0	0	long	wsw.	
Bk. Granville, S. 16° 04′, W. 33° 02′*†	30.25	768.3	.....	.....	.....	e.	.....	.....	1	.....	.....	.....	se.	rain	rain	mod.	se.	clear.
S. Hedwig, N. 53° 43′, E. 8° 15′	30.37	771.3	45.5	7.5	92	e.	.....	.....	3	.....	1	.....	e.	0	0	1	w.	foggy.
Schr. Henry Denison, Georgetown, Brit. Guiana S.A†	29.98	761.5	.....	.....	.....	ne.	.....	.....	4	.....	2	.....	ne.	0	0	.....	.....	fair.
Bk. Johanne Auguste, S 8° 45′, E. 86° 54′*†	29.73	755.1	.....	.....	.....	wsw.	.....	.....	4	.....	7	.....	nw.	3 h'r	3 h'r	mod.	wsw.	thnd'rstorm.
Bg. John Wesley, N. 34° 09′, W. 72° 45′†	30.22	767.6	61	16.1	.....	w.	.....	.....	1	.....	10	.....	.....	2 h'r	2 h'r	mod.	ne.	overcast.
Bk. Josephine, N. 31° 52′, W. 70° 24′*†	30.29	769.4	61	16.1	71	nw.	.....	.....	5	.....	8	.....	.....	1 h'r	1 h'r	long	nnw.	fair.
Bk. Kate Cann, N. 49° 15′, W. 8° 12′	.....	.....	.....	.....	.....	sw.	.....	.....	5	.....	5	.....	ssw.	0	0	sm'h	wnw.	fine.
Bkt. Kryolith, N. 42° 26′, W. 20° 40′*†	30.40	772.1	.....	.....	.....	s.	.....	.....	4	.....	2	.....	s.	0	0	sm'h	.....	clear.
S. S. Lamperts, N. 50° 37′, W. 0° 25′*	30.32	770.1	51.5	10.8	86	ne.	.....	.....	0–1	.....	0	.....	.....	.....	.....	sm'h	.....	
Schr. Maggie Abbot, Baracoa, Cuba, W. I*†	30.12	765.0	.....	.....	.....	ene.	.....	.....	4	.....	.....	.....	ene.	0	0	.....	.....	clear.
S. S. Malabar, N. 43° 31′ W. 12° 15′*†	30.52	775.2	.....	.....	.....	n.	.....	.....	1	.....	1	.....	n.	0	0	sm'h	.....	clear.
Bk. Peppina, N. 39° 08′, E. 6° 48′†	30.29	769.4	68	20.0	70	ene.	.....	.....	1	.....	0	.....	.....	.....	.....	sm'h	.....	clear.
Bk. Pilgrim, S. 45° 25′. E. 80° 00′*†	29.60	751.8	.....	.....	.....	s.	.....	.....	6	.....	.....	.....	s.	light	light	cross	var.	cloudy.
Bkt. Spotless, N. 31° 24′ W. 52° 50′*†	29.90	759.4	.....	.....	.....	sse	.....	.....	.....	.....	.....	.....	s.	.....	.....	hv'y	sse.	rainy.
Bk. Stella, S. 50° 50′, W. 64° 32′*	29.64	752.8	46.8	8.2	92	e.	.....	.....	5	.....	5	.....	e.	0	0	sm'h	nw.	d. clouds.
Bk. Sunbeam, N. 33° 09′, W. 73° 59′*†	30.26	768.6	59	15.0	76	n.	.....	.....	2	.....	10	.....	w.	0	0	h gh	n.	cloudy.
Bg. Wauburn, S. 15° 28′, W. 7° 20′*†	30.10	764.5	.....	.....	.....	ese.	.....	.....	6	.....	5	.....	ene.	.....	.....	sm'h	.....	
S. Wm. Woodbury, Bremerhaven, Germany*†	30.20	767.1	54	12.2	43	w.	.....	.....	6	.....	.....	.....	w.	.....	.....	.....	.....	



Data, as appearing in the International Bulletin of similar date.

Isobars in *black* exhibit atmospheric pressure at sea-level, and are charted from data as reported by the several observers.

Isotherms in *red* exhibit temperature of air, similarly charted.

Broken or dotted lines indicate that the lines so broken are doubtful.

Arrows, when charted, fly with the wind and exhibit wind-direction and force.

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W. B. Hazen

Brig. & Bvt. Maj. Gen'l,
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INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON MARCH 19, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours	.....	.....	30.10	764.4	66.2	19.0	81	w.	.....	.....	2	.....	0	.....	.....	0	0	clear	Moiroud.
Algiers	.....	.....	30.11	764.9	64.4	18.0	63	nw.	.....	.....	1	.....	0	.....	.....	0	0	clear	Nicolas.
La Calle	.....	.....	30.14	765.5	69.4	20.8	75	e.	.....	.....	1	.....	2	.....	.....	0	0	fair	Fonfréde.
Tunis	.....	.....	30.16	766.0															Jacques.
Saida	.....	.....	30.18	766.6	65.1	18.4	59	wnw.	.....	.....	3	.....	4	.....	.....	0.260	6.6	cloudy	Dumas.
Tebessa	.....	.....	30.24	768.2	66.2	19.0	48	sse.	.....	.....	1	.....	0	.....	.....	0	0	clear	Derché.
Geriville	.....	.....	.....	.....	63.7	17.6	16	sw.	.....	.....	4	.....	6	.....	.....	inap.	inap.	cloudy	Lonchamp.
Laghouat	.....	.....	30.27	768.8	67.3	19.6	30	se.	.....	.....	4	.....	4	.....	.....	0	0	cloudy	Herbin.
Biskra	.....	.....	30.24	768.1	76.3	24.6	21	s.	.....	.....	2	.....	0	.....	.....	0	0	clear	Malau.
Australian.																			
Melbourne, Victoria	30.08	764.0	30.17	766.3	62.6	17.0	61	w.	5	2.2	.....	.....	6	.....	.....	0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.58	751.4	30.12	765.1	66.2	19.0	32	e.	.....	.....	1	.....	4	.....	.....	0	0	.....	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.41	746.9	30.18	766.5	52.9	11.6	42	ese.	3.8	1.7	.....	.....	7	.....	.....	0	0	.....	Dr. Wierzbiski.
Eperies	29.28	743.7	30.17	766.2	51.4	10.8	48	se.	.....	.....	2	6 cs	0	.....	.....	0	0	.....	Julius Mikolik.
Gratz	28.89	733.9	30.13	765.4	60.1	15.6	54	s.	.....	.....	2	.....	2	.....	.....	0	0	.....	Andreas Rospini.
Hermannstadt	28.74	729.9	30.17	766.2	58.6	14.8	47	nnw.	.....	.....	3	.....	0	.....	.....	0	0	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.76	730.6	30.10	764.6	55.8	13.2	61	s.	.....	.....	1	.....	0	.....	.....	0	0	clear	The Staff.
Lemberg	29.21	742.0	30.23	767.8	43.5	6.4	48	nw.	.....	.....	1	.....	0	.....	.....	0	0	.....	Dr. T. Stanecki.
Pola	30.01	762.3	30.12	765.1	67.6	19.8	79	se.	.....	.....	2	.....	7	.....	.....	0	0	.....	I. R. Hydrographic Office.
Szathmar	29.74	755.3	30.21	767.2	52.5	11.4	37	n.	.....	.....	1	.....	0	.....	.....	0	0	.....	Joseph Midlinszky, S. J.
Szegedin	.....	.....	.....	.....	62.2	16.8	46	.....	.....	.....	.....	.....	.....	.....	.....	0	0	.....	Karl Stancel.
Trieste	30.03	762.7	30.13	765.3	64.8	18.2	41	ne.	.....	.....	1	.....	3	.....	.....	0	0	.....	Rieder.
Vienna	29.47	748.5	30.19	766.8	55.9	13.3	42	se.	.....	.....	2	.....	1	.....	.....	0	0	.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.63	752.6	29.73	755.1	49.5	9.7	75	s.	9	4.0	.....	.....	9	.....	.....	0	0	overcast	W. Boswell.
Armagh, Observatory	29.51	749.5	29.75	755.6	52.8	11.6	76	ssw.	21	9.4	.....	.....	10	.....	.....	.....	.....	squally	S. Call.
Bidston, Liverpool Obs'y	.....	.....	29.91	759.7	56.4	13.6	62	sw.	21	9.4	.....	.....	7	.....	.....	.....	.....	d. clouds	John Hartnup.
Bolton, Sharples	29.39	746.5	29.92	760.0	51.7	10.9	64	ssw.	18	8.0	.....	.....	10	.....	.....	.....	.....	overcast	Thomas Mackereth. [A.S.
Bradford, Yorkshire	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0	0	.....	J. McLandsborough, F. R
Bridgetown, Barbadoes	29.99	761.7	30.02	762.5	82.0	27.8	67	ne.	.....	.....	2	.....	2	.....	.....	.....	.....	d. clouds	Pvt. J. Surgenor, A. H.C.
Cardington	.....	.....	30.01	762.2	55.0	12.8	68	w.	.....	.....	0.6	.....	3	.....	.....	.....	.....	blue sky	John McLaren.
Chatham, School M. E	29.95	760.7	30.08	764.0	60.0	15.6	70	calm	.....	.....	0	.....	4	.....	.....	.....	.....	d. clouds	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	29.83	757.7	30.06	763.5	53.0	11.7	77	s.	.....	.....	3	.....	9	.....	.....	.....	.....	misty	The Staff.
Fort Napier, Natal	27.63	701.8	29.85	758.2	81.0	27.2	49	ne.	.....	.....	1	.....	3	.....	.....	.....	.....	blue sky	Pvt. E. K. Annis, A. H.C.
Free Town, Sierra Leone	29.59	751.6	29.82	757.4	88.0	31.1	66	w.	.....	.....	1	.....	3	.....	.....	.....	.....	blue sky	Sergt. John Robinson.
Galway, Queen's College	.....	.....	.....	.....	.....	.....	.....	wsw.	.....	.....	4	.....	10	.....	.....	.....	.....	raining	J. O'Donaghue.
Gibraltar, Mediterranean	30.24	768.1	30.29	769.4	65.5	18.6	78	se.	.....	.....	1	.....	3	.....	.....	.....	.....	blue sky	Cpl. O. Baldwin.
Glasgow, Observatory	29.48	748.8	29.69	754.1	49.0	9.4	93	ssw.	.....	.....	4	.....	10	.....	.....	.....	.....	raining	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.90	759.4	30.07	763.8	54.8	12.7	65	sw.	.....	.....	1	.....	0	.....	.....	.....	.....	misty	The Staff.
Guernsey	29.82	757.4	30.12	765.0	51.0	10.6	93	nnw.	.....	.....	1	.....	10	.....	.....	.....	.....	foggy	A. Collenette, F. M. S.
Kew, Observatory	30.04	763.0	30.07	763.8	52.7	11.5	72	sw.	8	3.6	.....	.....	2	.....	.....	.....	.....	hazy	The Staff.
Leicester, Museum	29.75	755.6	30.00	762.0	53.8	12.1	93	sw.	.....	.....	1	.....	8	.....	.....	.....	.....	d. clouds	J. C. Smith.
Malta, Mediterranean	30.17	766.3	30.24	768.1	68.6	20.3	56	w.	.....	.....	2	.....	0	.....	.....	.....	.....	blue sky	I. H. Whysall.
Nassau, Bahamas	30.24	768.1	30.28	769.1	70.0	21.1	75	e.	.....	.....	1	.....	4	.....	.....	.....	.....	d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.47	748.5	30.00	762.0	53.0	11.7	66	ssw.	.....	.....	2	.....	8	.....	.....	.....	.....	d. clouds	John Mac Email.
Oxford, Radcliffe Obs'y	29.82	757.4	30.05	763.3	55.2	12.9	65	sw.	.....	.....	3	.....	3	.....	.....	.....	.....	d. clouds	The Staff.
Plymouth	29.99	761.7	30.06	763.5	53.0	11.7	77	s.	.....	.....	3	.....	10	.....	.....	.....	.....	overcast	John Merrifield.
Sandwick Manse, Orkneys	.....	.....	29.68	753.9	44.4	6.9	90	se.	10	4.5	.....	.....	10	.....	.....	.....	.....	drizzling	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	30.23	767.8	30.30	769.6	57.6	14.2	30	ne.	.....	.....	2	.....	0	.....	.....	.....	.....	blue sky	W. H. Lyne.
Sheffield	29.67	753.6	29.95	760.7	55.3	12.9	73	sw.	.....	.....	2	.....	9	.....	.....	0	0	overcast	W. F. Cooper.
Silloth Rectory	29.80	756.9	29.83	757.7	52.5	11.4	84	ssw.	.....	.....	4	.....	7	.....	.....	0.240	6.1	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	29.93	760.2	50.1	10.1	71	wsw.	12	5.4	.....	.....	6	.....	.....	.....	.....	d. clouds	R. S. J. Perry.
Strafield Turgiss	29.84	757.9	30.06	763.5	55.6	13.1	68	sw.	.....	.....	3	.....	0	.....	.....	.....	.....	blue sky	Rev. C. H. Griffiths, F. M. S.
Truro, Royal Institution	29.94	760.5	29.98	761.5	58	14.4	57	sw.	.....	.....	6	.....	5	.....	.....	.....	.....	d. clouds	W. Newcombe.
Valencia, Observatory	29.69	754.1	29.72	754.9	53.2	11.8	89	s.	48	21.5	.....	.....	10	.....	.....	.....	.....	misty	The Met'g'l Office.
Canadian.																			
Bathurst, N. B	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.08	764.0	30.12	765.0	33	0.6	94	se.	17	7.6	.....	.....	10 n	.....	.....	0.330	8.4	sprinkling	H. J. Cundall, C. E.
Chatham, N. B*	30.02	762.5	30.09	764.3	29	— 1.7	96	ne.	4	1.8	.....	.....	1c n	.....	ne.	0.33	8.4	light snow	G. A. Blair.
Cornwall, Ontario	29.66	753.4	29.85	758.2	35.1	1.7	96	w.	.....	.....	2	.....	10 s	.....	.....	0.050	1.3	cloudy	James Smith, M. A.
Dalhousie, N. B	29.84	757.9	30.01	762.2	26.0	— 3.3	.....	e.	.....	.....	1	.....	10 n	.....	.....	0	0	cloudy	H. A. Johnson.
Father Point, Quebec*	29.98	761.5	30.00	762.0	22	— 5.6	91	se.	18	8.0	.....	.....	10 n	.....	.....	0.10	2.5	heavy snow	J. McWilliams.
Fort Garry, Manitoba*	29.36	745.7	30.30	769.6	— 4	—20.0	100	n.	1	0.4	.....	0	0	.....	.....	0.110	2.8	clear	James Stewart.
Fredericton, N. B	29.96	761.0	30.02	762.5	28.1	— 2.2	99	w.	4	1.8	.....	.....	10 n	.....	.....	0.430	10.9	snowing	Prof. Harrison.
Granton, Ontario	28.94	735.1	30.09	764.3	32.1	0.1	97	calm	.....	.....	0	3 c	0	nw.	.....	0.86	21.8	fair	James Grant.
Halifax, N. S*	29.97	761.2	30.10	764.5	33	0.6	92	e.	16	7.2	.....	.....	10 n	.....	.....	0.372	9.4	light rain	A. Allison.
Hamilton, Ontario	29.70	754.4	30.10	764.5	37.7	3.2	84	sw.	.....	.....	2	3 c	0	.....	.....	0	0	fair	Geo. Dickson, B. A.
Kingston, Ontario*	29.64	752.8	29.99	761.7	36	2.2	89	w.	8	3.6	.....	.....	10 k	.....	nw.	0.14	3.6	cloudy	A. P. Knight, M. A.
Little Glace Bay, N. S	30.21	767.3	30.25	768.3	33.0	0.6	97	s.	.....	.....	6	.....	10 n	.....	.....	0	0	cloudy	C. H. Rigby.
Montreal, Quebec*	29.66	753.4	29.87	758.7	30	— 1.1	100	s.	16	7.2	.....	.....	10 n	.....	.....	0.45	11.4	light rain	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.29	744.0	30.01	762.2	33	0.6	81	w.	18	8.0	.....	5 k	2 ks	w.	w.	0.57	14.5	fair	Rev. R. Mosley.
Peterboro, Ontario	29.24	742.7	30.00	762.0	36.7	2.6	80	w.	.....	.....	2	4 k	0	.....	.....	0	0	fair	J. Dixon, B. A.
Port Dover, Ontario	29.37	746.0	30.09	764.3	34	1.1	100	sw.	4	1.8	.....	8 c	0	sw.	.....	0.41	10.4	fair	H. Morgan.
Port Stanley, Ontario	29.43	747.5	30.11	764.8	32	0.0	100	w.	2	0.9	.....	5 ck	0	w.	.....	0.30	7.6	fair	M. Payne.
Quebec, Quebec*	29.62	752.3	29.96	761.0	24	— 4.4	96	ne.	.....	.....	1	.....	10 n	.....	ne.	0.05	1.3	light snow	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.41	747.0	29.88	758.9	31	— 0.6	81	w.	4	1.8	.....	.....	10 s	.....	nw.	0.44	11.2	cloudy	W. H. McIntyre.
Saugeen, Ontario*	29.31	744.5	30.04	763.0	35	1.7	89	w.	2	0.9	.....	.....	10 n	.....	.....	0.19	4.8	cloudy	
St. Andrews, N. B	29.91	759.7	29.96	761.0	30	— 1.1	99	e.	1	0.4	.....	.....	fg.	.....	.....	0.44	12.2	rain & fog	
St. John, N. B	29.77	756.1	29.94	760.5	34.0	1.1	79	se.	9	4.0	.....	.....	10 n	.....	.....	0.350	8.9	raining	G. Murdock, C. E.
St. Pierre, N. F	.....	.....	30.43	772.9	23.7	— 4.6	.....	se.	.....	.....	3	.....	.....	.....	.....	0.48	11.2	.....	N. F. Land, Com't.
Stratford, Ontario	28.74	730.0	30.07	763.8	33.2	0.7	92	nw.	6	2.7	.....	.....	10 s	.....	.....	0.293	7.4	cloudy	O. I. Macgregor, M. A.
Sydney, C. B*	30.27	768.8	30.33	770.4	31	— 0.6	92	e.	12	5.4	.....	.....	10 n	.....	.....	0.02	0.5	cloudy	T. C. Hill, C. E.
Toronto, Ontario*	29.69	754.1	30.09	764.3	35	1.7	89	w.	9	4.0	.....	.....	10 ks	.....	sw.	0.21	5.3	cloudy	Magnetic Observatory.
Windsor, N. S	29.88	758.9	29.98	761.5	36.5	2.5	95	e.	32	14.3	.....	.....	10 n	.....	.....	inap.	inap.	raining	Prof. W. R. Butler.
Woodstock, Ontario	28.97	735.8	30.07	763.8	34.5	1.4	86	sw.	8	3.6	.....	3 c	5 ks	.....	.....	0.18	4.6	cloudy	Prof. Wolverton.
Yarmouth, N. S*	29.86	758.4	29.93	760.2	38	3.3	92	se.	3	1.3	.....	fg	fg	.....	.....	0.98	24.9	light rain	Lt. F. E. Wilmot, R. N.
Sub-series.																			
St. Johns, Newfoundland	30.48	774.2	30.75	781.0	20	— 6.7	.....	sw.	2	0.9	.....	.....	10	.....	.....	0	0	fair	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	29.98	761.5	30.01	762.2	67.0	19.4	88	w.	2.5	1.1	.....	.....	10 ks	.....	.....	0	0	hazy	John Duthie.
Cape Town, C. G. H. Obs'y	30.01	762.2	30.05	763.3	77.0	25.0	53	s.	32	14.3	.....	2	6	.....	.....	0	0	.....	The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
CHINESE (*Sub-series*).																			
Hankow	29.90	759.4	30.18	766.6	58.4	14.7	54	ne.			2		1c			0	0		N. Titoushkin.
Zi-Ka-Wei, near Shanghai.	30.11	764.9	30.14	765.6	41.9	5.5	78	nne.	2.9	1.3			7k		n.	0.106	2.7	very cloudy.	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	30.01	762.3	30.06	763.5	51.4	10.8	69	ssw.	16	7			1						Oversergent Fischer.
Faröe	29.97	761.2	29.99	761.7	44.8	7.1	83	w.			2		1						Overloerer Lauridsen.
Godthaab, Greenland	30.08	764.1	30.13	765.2	1.9	—16.7	100	s.			2		10					snowing	S. Kleinschmidt.
Stykkisholm, Iceland	29.19	741.4	29.23	742.5	11.8	—11.2	89	ne.			6		8						A. O. Thorlacius.
Thorshavn	29.57	751.1	29.61	752.0	41.4	5.2	71	sw.	9	4			5						Overloerer Bergh.
Vestervig	29.85	758.2	29.94	760.5	40.8	4.9	98	sw.			2		10					foggy	Loerer Oesterbol.
FRENCH.																			
Agen, Normal School	29.46	748.2	30.11	764.7	59.0	15	68	calm			0					0	0		M. Labroue, Director.
Alençon, Normal School	29.60	751.7	30.15	765.7	54.7	12.6	67	nw.			1					0	0		M. Nicot, Director.
Arras, Engineer School	29.84	757.8	30.09	764.3	60.6	15.9	78	n.			1					0	0		M. Klein, Commandant.
Avignon, Normal School	30.09	764.2	30.16	766.2	68.0	20	72	nw.			1		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.52	749.8	30.07	763.7	64.2	17.9	38	e.			1		0			0	0	clear	M. Saillard, Director.
Beauvais, Normal School	29.84	758.0	30.11	764.8	57.2	14	63	e.			1		0			0	0	clear	M. Frère Eugène Mari.
Besançon, Normal School	29.15	740.5	30.04	763.1	62.6	17	52	sw.			1		0			0	0	clear	M. Gobin, Director.
Bordeaux, Observatory	29.85	758.1	30.11	764.8	58.8	14.9	57	s.			1		0			0.016	0.4	clear	M. Rayet, Director.
Bourges, Normal School	29.56	750.7	30.10	764.4	66.2	19	38	ssw.							ssw.	0	0		M. Postel, Director.
Brest, Naval Observatory	29.86	758.5	30.11	764.7	66.6	19.2	61	calm			0		0			0	0		M. de Kermaree, Dir.
Caen, Normal School	30.04	762.9	30.11	764.8	54.3	12.4	61	nnw.			1		0			0	0	clear	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.73	755.2	30.05	763.3	62.1	16.7	57	n.			1		0			0	0	clear	M. Jadot, Director.
Charleville, Normal School	29.62	752.4	30.12	765.1	67.6	19.8	43	ne.			1		0			0	0	clear	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.71	729.2	30.02	762.5	70.5	21.4	28	e.			1	0	1k		s.	0	0	clear	M. Alluard, Director.
Cluny, Normal School	29.27	743.4	30.11	764.9	65.8	18.8	50	ne.			1		0			0	0	clear	M. de Villemontée, Dir.
Commercy, Normal School	29.25	743.0	30.13	765.3	66.4	19.1	31	n.			1		0			0	0	clear	Dr. Coulet, Director.
Gap, Normal School	27.56	700.0	30.06	763.6	62.6	17	34	sw.			2					0	0		M. Jeangirard, Director.
Gréasque, du. Rhone	29.00	736.5	30.10	764.6	65.7	18.7	26	s.			2		2		s.	0	0		M. Kina, Director.
Grenoble, Normal School	29.31	744.5	30.07	763.7	66.9	19.4	36	nw.			2		ck 8			0	0		M. Ablard, Director.
Guéret, Normal School	28.51	724.2	30.03	764.0	62.6	17	38	e.			1		2		sw.	0	0	slightly cl'dy	M. Rivoire, Director.
Lamballe, Normal School	29.85	758.3	30.13	765.3	57.9	14.4	63	nnw.			1		0			0	0	clear	M. Olliffrault, Director.
Lescar, Normal School	29.58	751.2	30.14	765.5	59.4	15.2	95	ese.			2		2			0	0	slightly cl'dy	M. Chauvin, Director.
Lorient, Naval Observatory	30.03	762.8	30.13	765.4	60.8	16.0	69	calm			0		0			0	0	clear	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.06	738.1	30.10	764.5	66.0	18.9	49	s.			1		2c 0			0	0	clear	M. André, Director.
Mans, Normal School	29.90	759.4	30.21	767.3	54.7	12.6	93	ne.			1		0			0	0	clear	M. Piboen, Director.
Marseille, Observatory	29.90	759.4	30.17	766.2	60.1	15.6	69	wnw.			1		0			0	0		M. Stephan, Director.
Montlouis l'Instituteur	24.89	632.1	29.73	755.1	50.0	10	39	e.	11.2	5.0			0			0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	30.01	762.3	30.14	765.5	58.6	14.8	78	s.			2		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.30	744.1	30.06	763.6	64.0	17.8	39	nw.			1		0			0	0	clear	M. Hasse, Director
Nantes, Observatory	29.99	761.8	30.15	765.9	59.2	15.1	61	nne.			0.1		0			0	0		M. Larocque, Director.
Perpignan, Observatory	30.04	763.0	30.15	765.8	59.9	15.5	58	se.	9.4	4.2			3		nnw;s	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.25	539.8			29.5	— 1.4		se.			1		10		nw. se.	0.110	2.8	snowy	Gen'l de Nansouty, Dir.
Privas, Normal School	29.07	738.2	30.14	765.5	54.5	12.5	39	s.			1					0	0		M. Tallieu.
Puy de Dôme Obs'y, Summit	25.24	641.2			47.3	8.5	68	se.			1		2			0	0	¼ covered	M. Alluard, Director.
Rochefort, Naval Obs'y	30.12	765.1	30.15	765.9	51.8	11.0	95	s.			1		mist			0	0	misty	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.89	759.1	30.11	764.7	55.2	12.9	81	n.			1		0			0	0	clear	M. Mouillot, Director.
Rodez, Normal School	28.06	712.8	30.21	767.2	59.9	15.5	58	se.			2		0			0	0	clear	M. Serger, Director.
Rouen, Normal School	30.07	763.8	30.12	765.0	55.8	13.2	72	nnw.			1		0			0	0	clear	M. Platrier, Director.
Saint Maur, Observatory	29.93	760.3	30.10	764.5	65.5	18.6	41	ne.			1		0			0	0	clear	M. Renou, Director.
Toulouse, Observatory	29.46	748 2	30.19	766.7	53.8	12.1	86	n.			1		10			0	0	covered	M. Baillaud, Director.
Versailles, Observatory	29.61	752.0	30.10	764.6	63.7	17.6	37	sw.			1					0	0		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.82	757.5	30.11	764.9	65.5	18.6	38	se.			1		0			0	0	hazy	M. Marié Davy, Director
GERMAN.																			
Bamberg	29.22	742.1	30.08	763.9	64.4	18.0	40	ne.			2	0	0			0	0		Prof. Dr. Hoh.
Berlin	29.86	758.5	30.04	762.9	60.4	15.8	37	s.			1		0			0	0		Prof. Dr. Arndt.
Breslau	29.63	752.5	30.16	766.0	55.4	13.0	45	se.			1		0			0	0		Royal University Obs'y.
Carlsruhe	29.64	752 9	30.08	763.9	62.2	16.8	57	sw.			1		0			0	0		Albert Senz.
Cassel	29.44	747.8	30.16	766.0	65.1	18.4	26	s.			1		0			0	0		Dr. H. Möhl.
Frankfort on the Main	30.11?	764.9?	30.48?	774.2?	60.6	15.9	47	n.			1		1			0	0		Physical Society.
Friedrichshafen	28 67	728.2	30.11	764.8	54.3	12.4	64	sw.			1		0			0	0		Wilhelm, Chief Tel.
Hamburg	29.98	761.4	30.07	763.8	56.8	13.8	69	sw.			2		0			0	0		E. Preller.
Kiel	30.04	762.9	30.05	763.3	52.5	11.4	56	w.			1		2			0	0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.66	753.4	30.08	764.0	61.5	16.4	36	ssw.			1		0			0	0		H. Leppig, Asst.
Magdeburg	29.87	758.7	30.05	763.2	65.8	18.8	42	s.			1	0	0			0	0		Dr. Assmann.
Memel	30.10	764.5	30.15	765.7	40.3	4.6	74	sw.			4		10 8						Issermann.
Munich	28.31	719.1	30.18	766.6	62.1	16.7	37	calm			0		0			0	0		Central Station
Neufahrwasser	30.12	765.0	30.13	765.4	52.7	11.5	42	s.			2		1			0	0		A. Lothos.
Neustadt, Palatinate	29.55	750.6	30.08	764.0	58.8	14.9	58	e.			1		1		e.	0	0		Dickmether.
Stuttgart	29.11	739.5	29.99	761.7	64.4	18.0	40	n.			1		0			0	0		Prof. Dr. Schoder.
Wustrow	30.02	762.4	30.04	763.0	49.8	9.9	73	w.			1	0	5 8			0	0		Profs. Brandes & Reimer.
GREEK.																			
Athens	29.84	758.0	30.22	767.7	71.4	21.9		s.			1.0		0			0	0	clear	Schmidt & Wourlisch.
INDIAN.																			
Bellary	28.36	720.3			98.0	36.7	17	nw.	2.8	1.3		2c	0			0	0		
Kurrachee	29.91	759.7	29.96	761.0	80.0	25.7	72	sw.	25	11.2			3			0	0	d. clouds	
Deesa	29.39	746.5	29.85	758.1	97.9	36.6	31	wnw.	8.7	3.9			1	nnw.		0	0	d. clouds	
Bombay	29.83	757.8	29.87	758.7	84.2	29.0	66	wnw.	13	5.8			0			0	0	blue sky	
Poona, Yarrowda	28.00	711.2	29.80	756.8	95.4	35.2	12	w.	21	9.4			2	w.		0	0	d. clouds	
Belgaum	27.34	694.4	29.86	758.4	80.0	26.7	74	w.	8	3.6			0			0	0	misty	
Lahore	29.12	739.7	29.87	758.7	78.6	25.9	58	ne.	3.2	1.4			10			0	0	overcast	
Roorkee	28.90	734.1	29.80	756.8	82.4	28.0	30	w.	3.3	1.5			8			0	0		
Agra	29.26	743.3	29.82	757.3	92.7	33.7	22	nw.	5.4	2.4			4		w.	0	0		
Nagpur	28.76	730.5	29.76	756.0	98.5	36.9	14	calm	3.3	1.5			0			0	0	blue sky	
Jubbulpore	28.49	723.7	29.82	757.5	90.4	32.4	19	nw.	1.8	0.8			4		w.	0	0	d. clouds	
Lucknow	29.43	747.6	29.80	757.0	90.1	32.3	19	w.	8.3	3.7			0			0	0	misty	
Allahabad	29.48	748.6	29.78	756.4	92.7	33.7	25	nw.	3.9	1.7			8			0	0	d. clouds	
Patna	29.58	751.3	29.76	755.9	90.4	32.4	20	wnw.	6.5	2.9			0			0	0	blue sky	
Hazaribagh	27.79	705.8	29.76	756.0	85.8	29.9	37	n.	11.1	5.0			0			0	0	blue sky	
Cuttack	29.70	754.5	29.78	756.5	89.1	31.7	54	ssw.	1.5	0.7			1			0	0	blue sky	
Calcutta, Alipore	29.74	755.3	29.76	755.9	88.0	31.1	35	wsw.	2.0	0.9			0			0	0	blue sky	
Dhubri	29.66	753.4	29.78	756.4	83.1	28.4	54	calm	3.0	1.3			0			0	0	blue sky	
Chittagong	29.76	755.9	29.85	758.2	79.7	26.5	85	ssw.	6.0	2.7			3			0	0	blue sky	
Sibsagar	29.56	750 9	29.91	759.6	69.4	20.8	78	ne.	3.7	1.6			0			0.05	1.3	blue sky	
Jeypore	28.44	722.3	29.86	758.5	88.0	31.1	20	nw.	6.1	2.7			6		nw.	0	0	d. clouds	
Zanzibar, Africa	29.83	757.7			84.7	29.3	74	n.	2.9	1.3			7		nne.	0.11	2.8	raining	
Trichinopoly	29.63	752.6			93.8	34.3	31	ese.	2	0.9			0			0	0	blue sky	
ITALIAN.																			
Udine	29.73	755.2	30.14	765.6	68.9	20.5	23	s.	1.3	0.6			4			0	0		Prof. Giovanni Clodig.
Milan	29.61	752.0	30.13	765.2	67.5	19.7	41	se.	3.1	1.4			1			0	0		Prof. Schiaparelli.
Padua	30.00	762.1	30.11	764.9	66.4	19.1	34	ene.	4.3	1.9			1	sw.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.21	741.9	30.12	765.0	64.9	18.3	52	se.	3.1	1.4			1			0	0		Prof. P. F. Denza.
Genoa	30.00	761.9	30.19	766.8	58.5	14.7	72	s.	3.1	1.4			10	se.		0	0		Prof. G. M. Garibaldi.
Mondovi	28.20	716.3	30.12	765.1	63.0	17.2	47	w.			4		1	s.		0	0		Prof. D. C. Bruno.

STATIONS.	BAROMETER. Corrected for instrumental error and for temperature.		BAROMETER. Reduced to sea-level.		Temperature of the air.		Relative humidity.	WIND. Direction.	WIND. Velocity.		WIND. Force.	CLOUDS. Amount and kind. Upper.	CLOUDS. Amount and kind. Lower.	CLOUDS. Direction. Upper.	CLOUDS. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
ITALIAN.—Continued.																			
Pesaro	30.06	763.4	30.10	764.6	58.8	14.9	69	ene.	9.4	4.2	.....	.....	9	.....	.....	0	0	.....	Prof. Luigi Guidi.
Florence	29.92	760.0	30.18	766.5	65.3	18.5	53	nw.	.....	.....	2	.....	1	.....	.....	0	0	.....	Prof. Costantino Pitter.
Leghorn	30.02	762.6	30.11	764.8	61.2	16.2	66	w.	0.7	0.3	.....	.....	1	.....	.....	0	0	.....	Prof. Monte.
Rome	30.00	761.9	30.17	766.3	63.0	17.2	63	w.	3.8	1.7	.....	.....	6	.....	.....	0	0	.....	Prof. P. S. Ferrari.
Lecce	29.89	759.3	30.15	765.8	72.7	22.6	47	ssw.	7.4	3.3	.....	.....	5	.....	.....	0	0	.....	Prof. C. de Giorgi.
Cosenza	29.25	742.9	30.14	765.6	70.2	21.2	77	sse.	3.8	1.7	.....	.....	0	.....	.....	0	0	.....	Prof. D. Conti.
Cagliari	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Prof. A. Pacinotti.
Palermo	29.94	760.5	30.19	766.9	62.1	16.7	66	ne.	4.3	1.9	.....	.....	1	.....	.....	0	0	.....	Prof. G. Cacciatore.
Syracuse	30.06	763.6	30.11	764.8	67.6	19.8	63	sse.	8.7	3.9	.....	.....	1	ssw.	.....	0	0	.....	Prof. Vincenzo Guiliano.
Sub-series.																			
Naples, S. R	29.64	752.8	30.16	766.1	61.0	16.1	75	s.	1.8	0.8	.....	.....	2	ssw.	.....	0	0	.....	Prof. T. Brioschi.
Stelvio	22.25	565.2	.....	.....	36.7	2.6	54	sw.	.....	.....	6	.....	4	.....	.....	0	0	misty	Prof. P. F. Denza.
Valdobbia	22.30	566.4	.....	.....	40.5	4.7	65	n.	.....	.....	2	.....	5	.....	.....	0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Aomori	29.62	752.3	29.66	753.3	38.0	3.3	75	e.	7.2	3.2	.....	.....	10 n	.....	.....	0.032	0.8	raining	K. Ogawa.
Hakodate	29.75	755.6	29.76	755.9	33.5	0.8	85	ese.	30.0	13.4	.....	.....	10	.....	.....	0.350	8.9	snowing	
Hiroshima, I. M. Obs'y	29.66	753.3	29.68	753.9	54.1	12.3	82	wnw.	4.1	1.8	.....	4 ck	0	.....	.....	0.138	3.5	fair	K. Sasaki.
Kanazawa	29.49	749.0	29.60	751.8	53.6	12.0	89	w.	12.9	5.8	.....	.....	10 s	.....	.....	0.390	9.9	covered	S. Endo.
Kioto	29.41	747.0	29.59	751.6	56.1	13.4	98	wnw.	4.5	2.0	.....	.....	10 n	.....	.....	0.878	22.3	light rain	M. Tojima.
Kochi	29.63	752.6	29.65	753.1	58.5	14.7	91	w.	17.9	8.0	.....	0	4 s	.....	.....	0.465	11.8	fair	
Nagasaki, I. M. Obs'y	29.65	753.1	29.86	758.4	51.1	10.6	72	nw.	4.8	2.1	.....	0	4 s	.....	.....	0.050	1.3	gloomy	S. Takehayashi.
Niigata	29.46	748.3	29.50	749.3	46.5	8.1	83	sse.	15.5	6.9	.....	.....	10 n	.....	.....	0.380	9.6	raining	
Nobiru	29.65	753.1	29.66	753.3	34.6	1.4	98	nnw.	16.2	7.2	.....	.....	10 n	.....	.....	0.355	9.0	light rain	H. Midzushina.
Sapporo	.....	.....	.....	.....	32.0	0.0	92	se.	16.8	7.5	.....	.....	10	.....	.....	0.082	2.1	covered	
Tokei Obs'y, Yeddo	29.62	752.3	29.69	754.1	42.6	5.9	98	n.	3.3	1.5	.....	.....	10 n	.....	.....	0.174	4.4	raining	The Staff.
Wakayama	29.57	751.1	29.62	752.3	59.8	15.4	91	nw.	4.7	2.1	.....	.....	10 ckn	.....	w.	0.220	5.6	light rain	Y. Kuwamuea.
MAURITIUS.																			
Mauritius Observatory	29.75	755.6	29.93	760.2	78.9	26.1	68	ese.	12.0	5.4	.....	2 cs	7 k;ks	.....	sse.	0.27	6.9	cloudy	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.73	602.7	29.95	760.7	66.4	19.1	47	se.	.....	.....	.....	0	0	.....	.....	0	0	clear	Vicente Fernandez.
Leon	24.40	620.1	30.13	765.4	56.1	13.4	75	n.	.....	.....	2	5	0	se.	.....	0	0	foggy	Prof. M. Leal.
Mazatlan	29.74	755.4	30.00	762.0	65.5	18.6	97	e.	.....	.....	.....	.....	10 n	.....	se.	0	0	covered	F. Quijano, C. E.
Mexico, Central Obs'y	23.16	588.1	30.28	769.1	49.1	9.5	47	sw.	1.1	0.5	.....	0	0	.....	.....	0	0	foggy	M. Tena, M. D.
Morelia	24.14	613.1	30.25	768.2	58.5	14.7	68	se.	.....	.....	2	1	2	s.	s.	0	0	clear	The Staff.
Pabellon, Aguascallientes	23.95	608.6	30.00	761.9	54.3	12.4	51	.....	.....	.....	.....	7	1	s.	.....	0	0	cloudy	M. V. de Leon, M. E.
Puebla, Catholic Institute	23.44	595.5	30.39	771.9	43.5	6.4	51	calm	0	0	.....	0	0	.....	.....	0	0	clear	Prof. P. Spina.
San Luis Potosi	24.22	615.0	30.19	766.7	64.4	18.0	57	e.	.....	.....	1	3	3	w.	w.	0	0	½ clouded	G. Barroeta, M. D.
Vera Cruz	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Zacatecas	22.62	574.3	30.30	768.9	52.7	11.7	44	nnw.	6.0	2.6	.....	0	4	.....	.....	0	0	½ clouded	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.10	764.6	30.10	764.6	52.9	11.6	.....	wnw.	.....	.....	2	.....	.....	.....	.....	0.008	0.2	.....	
Groningen	30.00	761.9	30.05	763.3	54.1	12.3	.....	sw.	.....	.....	1	.....	.....	.....	.....	0	0	.....	
Helder	30.05	763.3	30.05	763.3	49.3	9.6	.....	ssw.	.....	.....	1	.....	.....	.....	.....	0	0	.....	
Hellevoetsluis	30.08	764.1	30.08	764.1	58.5	14.7	70	w.	.....	.....	2	.....	.....	.....	.....	0	0	lightly cl'y	H. van der Brink.
Utrecht	30.04	763.0	30.09	764.2	57.9	14.4	51	wsw.	.....	.....	1	.....	2	.....	.....	.....	.....	.....	
NORWEGIAN.																			
Bergen	29.73	755.1	29.79	756.7	45.3	7.4	94	s.	11	5	.....	.....	10	.....	.....	0.953	24.2	.....	
Brono	29.67	753.6	29.71	754.6	37.0	2.8	66	nw.	9	4	.....	.....	10	.....	.....	0.083	2.1	raining	
Christiania	29.64	752.9	29.79	756.6	49.5	9.7	69	calm	0	0	.....	.....	7	.....	.....	0.091	2.3	.....	
Gjæsvær	29.54	750.4	29.57	751.0	25.9	— 3.4	.....	se.	.....	.....	2	.....	0	.....	.....	.....	.....	.....	
Lodingen	29.45	748.1	29.50	749.3	30.0	— 1.1	92	wsw.	.....	.....	4	.....	10	.....	.....	0.240	6.1	snowing	
PORTUGUESE.																			
Angra, Azores	.....	.....	.....	.....	58.6	14.8	66	n.	12.5	5.6	.....	.....	6	.....	.....	0.236	6.0	.....	Dr. J. A. Sampaio.
Campo Major	29.10	739.0	30.08	763.9	70.9	21.6	37	sw.	4.9	2.2	.....	.....	5	.....	.....	0	0	.....	Dr. A. M. R. dos Santos.
Funchal, Maderia	30.18	766.6	30.27	768.9	63.5	17.5	63	sw.	3.1	1.4	.....	.....	10	.....	.....	0	0	.....	Capt. D. A. de Cunha.
Lisbon, Observatory	29.78	756.5	30.14	765.6	63.0	17.2	65	sw.	8.7	3.9	.....	.....	3	wnw.	.....	0	0	.....	The Staff.
Ponta Delgada, Azores	30.24	768.1	30.31	769.9	61.5	16.4	79	nnw.	1.3	0.6	.....	.....	3	.....	.....	0.362	9.2	.....	
Saint Paul de Loando	29.67	753.7	29.87	758.7	84.4	29.1	83	wnw.	0.7	0.3	.....	.....	7	e.	.....	0	0	.....	
Serra da Estrella	25.34	643.6	30.04	763.1	51.8	11.0	34	sse.	13.6	6.1	.....	.....	7	.....	.....	0	0	.....	
RUSSIAN.																			
Akmolinski	28.47	723.1	29.60	751.8	21.2	— 6.0	87	sw.	18	8	.....	0	8 k	.....	.....	0	0	.....	Major K. Lasarew.
Archangel	29.45	748.0	29.47	748.5	22.3	— 5.4	87	nw.	22	10	.....	.....	8 ks	.....	.....	0	0	.....	Capt. Sseliwerstow.
Astrakhan	29.91	759.6	29.82	757.5	27.5	— 2.5	72	nw.	29	13	.....	.....	10 k	.....	.....	0.067	1.7	.....	Capt. Wisganow.
Barnaul	29.15	740.5	29.66	753.4	35.4	1.9	78	sw.	13	6	.....	.....	7	.....	.....	0	0	.....	Meteorological Obs'y.
Dorpat	29.74	755.4	29.99	761.8	33.3	0.7	63	s.	9	4	.....	.....	10 n	.....	.....	0.031	0.8	.....	Observatory.
Ekaterinburg	27.74	704.6	28.73	729.7	18.1	— 7.7	69	wsw.	27	12	.....	.....	10	.....	.....	0.008	0.2	light snow	Meteorological Obs'y.
Kasan	28.88	733.5	29.16	740.6	20.8	— 6.2	59	nw.	18	8	.....	.....	10	.....	.....	0	0	.....	Observatory.
Kertch	30.17	766.3	30.19	766.8	34.7	1.5	59	nw.	11	5	.....	0	5 ks	.....	.....	0	0	.....	Lagorio & Sastyrez.
Kieff	29.47	748.4	30.13	765.3	32.7	0.4	30	wnw.	13	6	.....	0	0	.....	.....	0	0	.....	Observatory.
Lugan	29.74	755.4	29.95	760.8	29.8	— 1.2	42	w.	31	14	.....	.....	5	.....	.....	0	0	.....	Meteorological Obs'y
Moscow	29.19	741.5	29.70	754.3	24.4	— 4.2	52	ne.	13	6	.....	0	3 ks	.....	.....	0	0	.....	Meteorological Obs'y.
Nikolaiev	30.22	767.7	30.30	769.5	38.5	3.6	51	nw.	9	4	.....	0	0	.....	.....	0	0	.....	Capt. Kurdakow.
Nikolaievsk, on the Amoor	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Lieut. Iwanow.
Pekin, China	29.92	760.0	30.06	763 6	45.1	7.3	32	calm	0	0	.....	0	5 ks	.....	.....	0	0	.....	Physical Observatory
St. Petersburg	29.92	759.9	29.93	760.3	25.7	— 3.5	50	wnw.	16	7	.....	c;cs	3 s	.....	.....	0	0	.....	Central Physical Obs
Tashkend, Laboratory	28.08	713.1	29.03	752.6	54.5	12.5	65	calm	0	0	.....	.....	10	.....	.....	0.449	11.4	light clouds	Teich, A. M.
Tiflis	28.57	725.7	30.05	763.2	35.1	1.7	33	nw.	22	10	.....	0	6 k	.....	.....	0	0	.....	Physical Observatory
Vladivostok	29.84	758.0	29.91	759.7	30.9	— 0.6	89	n.	13	6	.....	.....	10 k	.....	.....	0.134	3.4	.....	
Warsaw	29.80	757.0	30.24	768.0	45.1	7.3	42	ssw.	4	2	.....	5 c	0	.....	.....	.....	.....	.....	Astronomical Obs'y
Wilna	29.75	755.7	30.19	766.8	36.7	2.6	57	wnw.	7	3	.....	.....	10	.....	.....	0.012	0.3	heavy cl'ds.	Berg, Assistant.
Yeniseisk	29.36	745.8	29.65	753.2	39.4	4.1	64	e.	9	4	.....	.....	4	.....	.....	0	0	.....	M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	30.04	763.0	30.15	765.7	59.9	15.5	74	s.	3.4	1.5	.....	.....	1 k	.....	.....	0	0	clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.05	763.3	30.11	764.8	66.4	19.1	49	se.	2.5	1.1	.....	0	0	.....	.....	0	0	clear	Prof. Manuel de Naveran:
Burgos, Met. Obs'y	27.16	689.8	30.06	763 5	64.2	17.9	32	ne.	4.3	1.9	.....	0	0	.....	.....	0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	27.85	707.3	30.04	762.9	65.5	18.6	37	s.	6.3	2.8	.....	0	1	.....	.....	0	0	almost clear	The Staff.
Murcia, Met. Obs'y	29.99	761.7	30.14	765.6	64.9	18.3	67	se.	2.2	1.0	.....	5	3	ne.	.....	0	0	cloudy	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.14	740.1	30.02	762.6	63.5	17.5	45	calm	0	0	.....	.....	0	.....	.....	0	0	clear	R. Gil Vallanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I	30.12	765.0	30.19	766.7	67.1	19.5	87	ese.	2.2	1.0	.....	0	1 k	.....	e.	0	0	fair	Benito Vines, S. J.
Manilla, Philippine Islands	29.89	759.2	29.95	760.6	78.4	25.8	67	se.	4.4	2.0	.....	0	s	.....	.....	0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.10	764.5	30.20	767.0	62.8	17.1	65	s.	6.3	2.8	.....	0	9	.....	s.	.....	.....	.....	Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	30.02	762.5	30.11	764.8	72.0	22.2	92	calm	0	0	.....	1 c	2 k	se.	se.	0.217	5.5	clear	Manuel Maeu.
Tuguegarao, Philippine Id's	29.81	757.2	29.94	760.5	76.8	24.9	79	nnw.	4.5	2.0	.....	0	1 s	.....	n.	0	0	clear	José L. Yrastorza.
SWEDISH.																			
Haparanda	29.66	753.3	29.70	754.3	21.9	— 5.6	85	se.	.....	.....	4	.....	10	.....	.....	0.165	4.2	snowing	
Umea	29.65	753.2	29.71	754.5	34.2	1.2	85	sw.	.....	.....	2	.....	10	.....	.....	0.012	0.3	.....	
Hernosand	29.68	753.8	29.73	755.1	41.5	5.3	53	calm	.....	.....	0	.....	2	.....	.....	0	0	.....	
Stockholm	29.67	753.7	29.85	758.2	40.3	4.6	87	ssw.	.....	.....	2	.....	10	.....	.....	0.043	1.1	.....	
Wisby	29.89	759 2	29.95	760.7	41.7	5.4	82	w.	.....	.....	2	.....	10	.....	.....	0.043	1.1	.....	
Sub-series.																			
Upsala	29.71	754.5	29.79	756.7	41.0	5.0	82	wnw.	10.1	4.5	.....	.....	10	.....	wnw.	0.004	0.1	.....	S. G. Fineman.
SWISS.																			
Geneva	28.69	728.8	30.10	764.6	58.3	14.6	40	nne.	.....	.....	1	.....	.....	.....	.....	0	0	clear	The Observatory

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
TURKISH.																			
Constantinople	.....	.....	30.39	771.9	52.9	11.6	32	n.	19	8.5	.....	.....	0	.....	.....	0	0	.....	The Observatory.
Valona	.....	.....	30.22	767.6	66.7	19.3	.....	sw.	.....	.....	1	.....	2	.....	.....	0	0	slightly cld'y	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	30.12	765.1	64.0	17.8	62	w.	.....	.....	2	0	1 k	.....	w.	0	0	.....	Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	29.97	761.2	30.06	763.5	40.3	4.6	73	s.	8	3.6	.....	.....	10 s	.....	.....	0.13	3.3	cloudy	J. O. Barnes.
Alpena, Michigan	29.39	746.5	30.09	764.3	29.5	— 1.4	88	w.	6	2.7	.....	0	0	.....	.....	0.38	9.7	clear	Jas. J. Fitzgerald.
Atlanta, Georgia	28.95	735.3	30.17	766.3	61.5	16.4	95	sw.	15	6.7	.....	.....	10 s	.....	calm	0	0	cloudy	H. Hall.
Atlantic City, New Jersey	30.10	764.5	30.11	764.8	38.3	3.5	86	sw.	5	2.2	.....	.....	10 s	.....	.....	0.08	2.0	cloudy	Jas. M. Watson.
Augusta, Georgia	29.99	761.7	30.19	766.8	57.4	14.1	86	nw.	1	0.4	.....	0	0	.....	.....	0	0	clear	John Healy.
Baltimore, Maryland	30.08	764.0	30.13	765.3	40	4.4	100	calm	0	0	.....	.....	10s;fg	.....	.....	0.50	12.7	cloudy	Robert Seyboth.
Barnegat, New Jersey	30.10	764.5	30.12	765.0	36.7	2.6	91	w.	2	0.9	.....	.....	10 s	.....	.....	0.03	0.8	cloudy	Chas. F. Merritt.
Bismarck, Dakota	28.15	715.0	30.07	763.8	9	—12.8	80	e.	12	5.4	.....	.....	10 s	.....	se.	0	0	cloudy	Cyrus Cramer.
Boise City, Idaho	26.90	683.2	29.82	757.4	21	— 6.1	87	calm	0	0	.....	.....	10 s	.....	calm	0.25	6.3	cloudy	B. E. Light.
Boston, Massachusetts	29.90	759.4	30.06	763.5	31.0	— 0.6	96	w.	5	2.2	.....	.....	10 s	.....	.....	0.08	2.0	cloudy	O. B. Cole.
Brownsville, Texas	29.95	760.7	30.00	762.0	74	23.3	90	s.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. C. Galloway.
Buffalo, New York	29.32	744.7	30.12	765.0	36	2.2	89	sw.	9	4.0	.....	5c;cs	1 ks	w.	sw.	0.29	7.4	fair	Wm. Finn.
Burlington, Vermont	29.63	752.6	29.94	760.5	32.3	0.2	80	s.	23	10.3	.....	.....	10 s	.....	s.	0.06	1.5	cloudy	G. O. Schaeffer.
Cairo, Illinois	29.76	755.9	30.18	766.6	49.7	9.8	95	n.	8	3.6	.....	.....	10 n	.....	n.	0.48	12.2	light rain	W. H. Ray.
Campo, California	27.46	697.5	30.07	763.8	37.4	3.0	92	sw.	3	1.3	.....	.....	10 s	.....	sw.	0.04	1.0	cloudy	W. H. Clendenon.
Camp Thomas, Arizona	27.19	690.6	29.97	761.2	46	7.8	93	sw.	.....	.....	1	0	3 ks	.....	.....	0.05	1.3	clear	J. T. Fitzgerald.
Cape Henry, Virginia	30.10	764.5	30.12	765.0	42	5.6	92	s.	8	3.6	.....	.....	fg.	.....	.....	0.19	4.8	dense fog	J. E. Lanouette.
Cape May, New Jersey	30.10	764.5	30.12	765.0	46	7.8	71	s.	9	4.0	.....	.....	10 s	.....	.....	0.13	3.3	cloudy	W. Bolten.
Castroville, Texas	29.11	739.4	29.94	760.5	68	20.0	93	se.	8	3.6	.....	2 ck	0	.....	.....	0	0	fair	T. Jones.
Cedar Keys, Florida	30.20	767.1	30.22	767.6	68	20.0	90	calm	0	0	.....	0	3 ks	w.	0	0	0	clear	F. W. Mixer.
Champaign, Illinois	29.31	744.5	30.17	766.3	40.2	4.6	73	ne.	14	6.3	.....	.....	10 s	.....	ne.	0	0	cloudy	L. A. Welsh.
Charleston, S. Carolina	30.08	764.0	30.14	765.5	65	18.3	84	sw.	6	2.7	.....	9 ck	0	sw	.....	0	0	cloudy	J. H. Smith.
Charlotte, N. Carolina	29 23	742.4	30.11	764.8	45.0	7.2	100	ne.	1	0.4	.....	.....	fg.	.....	.....	0.03	0.8	dense fog	D. O. Donoghue.
Chattanooga, Tennessee	29.28	743.7	30.13	765.3	57.5	14.2	88	calm	0	0	.....	10 cs	fg.	w.	.....	0.01	0.3	cloudy	B. L. Goulding.
Cheyenne, Wyoming	23.75	603.2	29.93	760.2	17.3	— 8.2	57	nw.	4	1.8	.....	0	0	.....	.....	0	0	clear	E. McGovern.
Chicago, Illinois	29.45	748.0	30.19	766.8	36.0	2.2	79	n.	4	1.8	.....	5 c	0	.....	.....	inap.	inap.	fair	J. Mitchell.
Chincoteague, Virginia	30.06	763.5	30.08	764.0	41	5.0	92	s.	5	2.2	.....	.....	10 s	...	...	0.12	3.0	cloudy	F. C. Pratz.
Cincinnati, Ohio	29.49	749.0	30.18	766.6	49	9.4	61	n.	4	1.8	.....	.....	10 ks	...	w.	0.39	9.9	cloudy	R. B. Watkins.
Cleveland, Ohio	29.41	747.0	30.19	766.8	37.7	3.2	86	w.	3	1.3	.....	7 ck	0	w.	.....	0.44	11.2	fair	J. B. Newlin.
Coleman City, Texas	28.11	714.0	29.96	761.0	65	18.3	90	w.	1	0.4	.....	.....	10 s	.....	w.	0	0	cloudy	L. Dorman.
Columbus, Ohio	29.27	743.4	30.16	766.1	43	6.1	74	n.	6	2.7	.....	.....	10 s	.....	w.	0.13	3.3	cloudy	D. Cuthbertson.
Concho, Texas	27.98	710.7	29.95	760.7	65	18.3	90	calm	0	0	.....	.....	10 s	.....	e.	0	0	cloudy	W. W. McConihe.
Davenport, Iowa	29.51	749.5	30.20	767.1	36	2.2	69	nw.	3	1.3	.....	2 ck	4 s	w.	w.	inap.	inap.	fair	R. R. Martin.
Dayton, Washington T'y	27.90	708.6	29.71	754.6	25.2	— 3.8	88	sw.	8	3.6	.....	0	c	.....	.....	0.09	2.3	clear	H. Clifford.
Deadwood, Dakota	25 08	637.0	29.92	760.0	25	— 3.9	76	calm	0	0	.....	4 cs	0	.....	.....	0	0	fair	G. W. Scott.
Decatur, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	D. J. Carr.
Delaware Breakwater, Del.	30.10	764.5	30.12	765.0	38	3.3	100	s.	7	3.1	.....	.....	10 s	.....	.....	0.07	1.8	cloudy	A. Schneider.
Denison, Texas	29.13	739.9	29.96	761.0	65.0	18.3	84	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	J. McGlone.
Denver, Colorado	24.47	621.5	29.91	759.7	31.0	— 0.6	81	n.	5	2.2	.....	0	4 s	.....	calm	0	0	fair	F. M. Neal.
Des Moines, Iowa	29.25	742.9	30.21	767.3	33	0.6	68	e.	2	0.9	.....	7 cs	0	nw.	.....	0	0	fair	F. W. Conrad.
Detroit, Michigan	29.42	747.3	30.17	766.3	38.0	3.3	89	w.	7	3.1	.....	0	0	.....	.....	0.63	16.0	clear	C. F. R. Wappenhans.
Dodge City, Kansas	27.27	692.6	30.00	762.0	41	5.0	82	se.	9	4.0	.....	.....	10 s	.....	.....	0	0	cloudy	E. A. Thomas.
Dubuque, Iowa	29.44	747.8	30.19	766.8	32.2	0.1	68	nw.	1	0.4	.....	1 cs	0	nw.	.....	0	0	clear	J. Harvey Smith.
Duluth, Minnesota	29.59	751.6	30.33	770.4	16	— 8.9	67	sw.	5	2.2	.....	0	0	.....	.....	0	0	clear	N. B. Conger.
Eagle Pass, Texas	29.09	738.9	29.91	759.7	67.0	19.4	93	calm	0	0	.....	1 ck	0	sw.	.....	0	0	clear	F. Belford.
Eagle Rock, Idaho	24.84	630.9	29.72	754.9	22	— 5.6	88	sw.	20	8.9	.....	.....	10 s	.....	sw.	0	0	cloudy	J. M. Clifford.
Eastport, Maine	29.89	759.2	29.96	761.0	32.5	0.3	94	ne.	13	5.8	.....	.....	10 n	.....	ne.	0.26	6.6	light sleet	J. H. Melton.
El Paso, Texas	26.20	665.5	30.00	762.0	53	11.7	80	w.	5	2.2	.....	.....	10 s	.....	sw.	0	0	cloudy	J. F. Marshall.
Erie, Pennsylvania	29.40	746.7	30.17	766.3	38	3.3	89	w.	3	1.3	.....	0	2 s	.....	.....	0.26	6.6	clear	R. H. Paxton.
Escanaba, Michigan	29.43	747.5	30.14	765.5	28	— 2.2	77	w.	6	2.7	.....	0	0	.....	.....	0	0	clear	C. Dill.
Florence, Arizona	28.51	724.1	30.08	764.0	43.9	6.6	86	s.	2	0.9	.....	9 cs	0	sw.	.....	0	0	cloudy	R. R. Herman.
Fort Apache, Arizona	24.97	634.2	29.99	761.7	35	1.7	72	ne.	6	2.7	.....	0	6 s	.....	calm	0.06	1.5	fair	W. O. Barnes.
Fort Assinnaboine, Montana	27.01	686.0	30.02	762.5	1	—17.2	46	nw.	8	3.6	.....	.....	10 n	.....	n.	0.08	2.0	light snow	B. O. Lenoir.
Fort Bennett, Dakota	28.29	718.6	29.99	761.7	35	1.7	72	se.	9	4.0	.....	0	8 s	.....	.....	0	0	cloudy	T. Gibson.
Fort Benton, Montana	27.10	688.3	30.08	764.0	1	—17.2	100	ne.	7	3.1	.....	.....	10 n	.....	ne.	0.13	3.3	light snow	S. Wheaton.
Fort Buford, Dakota	27.90	708.6	30.04	763.0	1	—17.2	65	e.	20	8.9	.....	.....	10 s	.....	calm	0	0	cloudy	A. H. Bell.
Fort Custer, Montana	26.43	671.3	29.76	755.9	20	— 6.7	87	n.	12	5.4	.....	0	8 s	.....	n.	0	0	cloudy	V. Verge.
Fort Davis, Texas	25.11	637.8	29.99	761.7	51	10.6	74	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. Williams.
Fort Elliott, Texas	27.11	688.6	29.94	760.5	50	10.0	55	se.	8	3.6	.....	10 k	0	se.	.....	0.02	0.5	cloudy	W. J. Cundall.
Fort Gibson, Indian T'y	29.37	746.0	29.96	761.0	57.8	14.3	86	e.	4	1.8	.....	.....	10 s	.....	w.	0.25	6.3	cloudy	J. B. Campbell.
Fort Grant, Arizona	25.19	639.8	30.02	762.5	47	8.3	80	n.	5	2.2	.....	0	0	.....	.....	0.81	20.6	clear	T. J. Macgowan.
Fort Griffin, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	G. H. Hayne.
Fort Keogh, Montana	27.17	690.1	29.82	757.4	24	— 4.4	64	e.	5	2.2	.....	1 c	0	.....	.....	0	0	clear	W. B. Stockman.
Fort Macon, North Carolina	30.12	765.0	30.13	765.3	49	9.4	100	n.	8	3.6	.....	.....	10 s	.....	calm	0.08	2.0	cloudy	L. Leonardy.
Fort McKavett, Texas	27.80	706.1	30.12	765.0	68.8	20.4	81	se.	5	2.2	.....	.....	10 ks	.....	.....	0	0	cloudy	J. E. Thatcher.
Fort Missoula, Montana	26.27	667.2	29.65	753.1	18	— 7.8	87	nw	6	2.7	.....	0	0	.....	.....	0.05	1.3	clear	J. H. Jones.
Fort St. Michaels, Alaska	30.20	767.1	30.24	768.1	15	— 9.4	100	n.	10	4.5	.....	0	0	.....	.....	0	0	clear	A. P. Leavitt.
Fort Shaw, Montana	26.19	665.2	29.99	761.7	— 4	—20.0	100	n.	12	5.4	.....	.....	10 s	.....	.....	0.09	2.3	cloudy	A. L. Mathews.
Fort Sill, Indian Territory	28.71	729.2	30.00	762.0	53.5	11.9	91	n.	3	1.3	.....	.....	10 s	.....	s.	0.35	8.9	cloudy	T. Cleary.
Fort Stevenson, Dakota	28.14	714.7	30.12	765.0	— 3	—19.4	68	e.	10	4.5	.....	0	0	.....	.....	0	0	clear	W. Burrows.
Fort Verde, Arizona	.....	.....	.....	.....	37	2.8	56	w.	.....	.....	1	0	0	.....	.....	0	0	clear	D. Brooks.
Fort Washakie, Wyoming	24.04	610.6	.....	.....	23.2	— 4.9	80	n.	2	0.9	.....	0	4 s	.....	.....	0	0	fair	T. M. Ambler.
Fredericksburg, Texas	28.18	715.8	29.94	760.5	68	20.0	90	sw.	6	2.7	.....	.....	10 ks	.....	sw.	0	0	cloudy	H. S. Miles.
Galveston, Texas	29.98	761.5	30.02	762.5	72	22.2	85	s.	12	5.4	.....	10 k	0	w.	.....	0	0	cloudy	E. O'C. MacInerney.
Grand Haven, Michigan	29.48	748.8	30.18	766.6	36.0	2.2	79	nw.	7	3.1	.....	0	0	.....	.....	0.05	1.3	clear	W. A. Reid.
Hatteras, North Carolina	30.11	764.8	30.13	765.3	46	7.8	100	n.	4	1.8	.....	.....	10 s	.....	.....	0.24	6.1	cloudy	R. M. Crawford.
Helena, Montana	25.49	647.4	29.86	758.4	0	—17.8	72	nw.	12	5.4	.....	.....	10 s	.....	nw.	0.02	0.5	cloudy	N. C. Smith.
Henrietta, Texas	28.96	735.6	30.00	762.0	58	14.4	100	sw.	5	2.2	.....	.....	10 s	.....	sw.	0.17	4.3	cloudy	J. W. Byram.
Huron, Dakota	28.64	727.4	30.12	765.0	30.3	— 0.9	78	se.	12	5.4	.....	0	7 s	.....	w.	0	0	fair	S. W. Glenn.
Indianapolis, Indiana	29.31	744.5	30.15	765.8	46	7.8	77	n.	3	1.3	.....	.....	10 s	.....	nw.	0.13	3.3	cloudy	O. Schutze
Indianola, Texas	29.96	761.0	29.99	761.7	72.0	22.2	84	s.	18	8.0	.....	5 k	5 ks	s.	s.	0	0	cloudy	I. A. Reed.
Jacksboro, Texas	28.78	731.0	29.99	761.7	60	15.6	81	calm	0	0	.....	0	10 s	.....	.....	0	0	cloudy	J. P. Sherry.
Jacksonville, Florida	30.16	766.1	30.20	767.1	67	19.4	87	sw.	4	1.8	.....	0	9 s	.....	sw.	0	0	cloudy	J. W. Smith.
Keokuk, Iowa	29.46	748.3	30.15	765.8	37.0	2.8	82	ne.	4	1.8	.....	9 k	0	w.	.....	0	0	cloudy	F. Z. Gosewisch
Key West, Florida	30.18	766.6	30.20	767.1	71.0	21.1	73	e.	8	3.6	.....	0	0	.....	.....	0	0	clear	L. M. Melbourne.
Kittyhawk, North Carolina	30.12	765.0	30.14	765.5	45	7.2	68	e.	2	0.9	.....	.....	10 s	.....	.....	0.44	11.2	cloudy	E. A. Beals.
Knoxville, Tennessee	29.05	737.9	30.11	764.8	55.3	12.9	96	calm	0	0	.....	.....	9 s;fg	w.	0	0	0	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.38	746.2	30.20	767.1	32	0.0	68	nw.	2	0.9	.....	0	6 s	.....	.....	0	0	fair	S. C. Emery.
La Mesilla, New Mexico	26.06	661.9	30.01	762.2	50.7	10.4	86	calm	0	0	.....	.....	10 s	.....	.....	0.08	2.0	cloudy	N. D. Lane.
Leavenworth, Kansas	29.19	741.4	30.13	765.3	45	7.2	68	e.	7	3.1	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	A. W. Browne.
Lewiston, Idaho	28.85	732.8	29.71	754.6	30	— 1.1	71	se.	1	0.4	.....	0	2 s	.....	.....	0.21	5.3	clear	W. Blake.
Little Rock, Arkansas	29.66	753.4	29.99	761.7	71	21.7	82	ne.	3	1.3	.....	.....	10 s	.....	w.	0	0	cloudy	M. F. Burrows.
Los Angeles, California	29.75	755.6	30.15	765.8	49.2	9.6	86	se.	2	0.9	.....	.....	10 s	.....	calm	0.01	0.3	cloudy	E. F. Kubel.
Louisville, Kentucky	29.54	750.3	30.13	765.3	49	9.4	77	n.	8	3.6	.....	.....	10 n	.....	.....	0.22	5.6	light rain	H. C. Smith.
Lynchburg, Virginia	29.35	745.5	30.07	763.8	41.5	5.3	92	nw.	1	0.4	.....	.....	10n;fog	.....	.....	0.53	13.5	light rain	T. H. Breen.
Madison, Wisconsin	29.14	740.1	30.21	767.3	32	0.0	78	n.	4	1.8	.....	4 c	0	nw.	.....	0	0	fair	C. A. Shaw.
Marquette, Michigan	29.35	745.5	30.12	765.0	28	— 2.2	77	w.	2	0.9	.....	0	0	.....	.....	0	0	clear	I. Gilligan.
Mason, Texas	28.26	717.8	29.95	760.7	69.7	20.9	84	s.	1	0.4	.....	0	1 s	.....	calm	0	0	clear	A. M. Wilson.
Memphis, Tennessee	29.68	753.9	30.03	762.7	69	20.9	78	sw.	3	1.3	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	D. T. Flannery.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force: 0–01	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
UNITED STATES.—Cont'd.																			
Milwaukee, Wisconsin	29.40	746.7	30.19	766.8	35	1.7	69	w.	4	1.8	.....	6 c	0	nw.	.....	0	0	fair	W. Line.
Mobile, Alabama	30.12	765.0	30.16	766.1	69	20.6	93	sw.	1	0.4	.....	.....	10 s	.....	sw.	0	0	cloudy	J. D. Paxton.
Montgomery, Alabama	29.92	760.0	30.16	766.1	67	19.4	90	sw.	6	2.7	.....	0	8 k	.....	w.	0	0	cloudy	J. B. McLaughlin.
Moorhead, Minnesota	29.16	740.7	30.24	768.1	— 6	—21.1	63	n.	2	0.9	.....	0	0	.....	.....	0	0	clear	H. Bessant.
Morgantown, W. Virginia	29.10	739.1	30.16	766.1	49.0	9.4	77	ne.	12	5.4	.....	2 cs	4 s	.....	n.	0.51	13.0	fair	J. Sprigg, jr.
Mt. Washington, N. H.	23.48	596.4	30.00	762.0	18.0	— 7.8	96	w.	56	25.0	.....	.....	fg.	.....	w.	0.17	4.3	dense fog.	J. G. Linsley.
Nashville, Tennessee	29.50	749.3	30.06	763.5	63.0	17.2	92	w.	2	0.9	.....	.....	10 s	.....	.....	0	0	cloudy	L. A. Jesunofsky.
New Haven, Connecticut	29.97	761.2	30.09	764.3	32	0.0	78	w.	5	2.2	.....	.....	10 s	.....	sw.	inap.	inap.	cloudy	J. H. Sherman.
New London, Connecticut	30.05	763.3	30.10	764.5	34	1.1	71	nw.	3	1.3	.....	.....	10 s	.....	calm	0	0	cloudy	J. G. Lynch.
New Orleans, Louisiana	30.06	763.5	30.12	765.0	70.0	21.1	90	s.	3	1.3	.....	.....	10 s	.....	s.	0	0	cloudy	A. J. Armstrong.
Newport, Rhode Island	30.02	762.5	30.07	763.8	34.4	1.3	84	nw.	6	2.7	.....	.....	10 s	.....	nw.	0.04	1.0	cloudy	W. McGillivray.
New River, N. Carolina	.....	.....	.....	.....	48	8.9	93	n.	.....	.....	I	.....	10 s	.....	.....	0.05	1.3	cloudy	C. C. Corbin.
New Shoreham, Rhode I'd	30.05	763.3	30.08	764.0	34.0	1.1	79	nw.	5	2.2	.....	10 cs	0	nw.	.....	0	0	cloudy	W. Davis.
New York, New York	30.02	762.5	30.20	767.1	34	1.1	89	w.	5	2.2	.....	.....	10 s	.....	.....	0.08	2.0	cloudy	E. B. Garriott.
Norfolk, Virginia	30.09	764.3	30.12	765.0	43	6.1	93	se.	5	2.2	.....	.....	10 s	.....	.....	0.21	5.3	cloudy	J. T. Elker.
North Platte, Nebraska	26.99	685.5	30.05	763.3	36.6	2.6	69	e.	10	4.5	.....	.....	10 s	.....	.....	0	0	cloudy	E. F. Brady.
Olympia, Washington T'y	29.60	751.8	29.64	752.8	28.0	— 2.2	88	s.	2	0.9	.....	0	3 n	.....	calm	0.08	2.0	light snow	J. Dascomb.
Omaha, Nebraska	28.93	734.8	30.18	766.6	38.0	3.3	72	se.	8	3.6	.....	.....	10 s	.....	se.	0	0	cloudy	A. Pollak.
Ooglaamie, Pt. Barrow, Alas.	30.14	765.5	30.16	766.1	0.4	—17.6	94	sw.	4	1.8	.....	.....	10 n	.....	.....	0.07	1.8	light snow	P. H. Ray.
Oswego, New York	29.69	754.1	30.03	762.7	39.8	4.3	84	w.	11	4.9	.....	4 c	0	w.	.....	0.26	6.6	fair	S. W. Beall.
Palestine, Texas	29.47	748.5	30.04	763.0	70	21.1	78	s.	8	3.6	.....	0	8 ks	.....	.....	0	0	cloudy	L. M. Pindell.
Pensacola, Florida	30.14	765.5	30.17	766.3	69.7	20.9	97	sw.	7	3.1	.....	0	0	.....	.....	0	0	clear	M. McGauran.
Philadelphia, Pa	30.03	762.7	30.13	765.3	38	3.3	82	sw.	4	1.8	.....	.....	10 s	.....	sw.	0.13	3.3	cloudy	T. F. Townsend.
Pike's Peak, Colorado	17.41	442.2	30.00	762.0	5	—15.0	100	sw.	12	5.4	.....	.....	10 s	.....	sw.	0.20	5.1	cloudy	L. M. Dey.
Ploche, Nevada	23.74	603.0	29.88	758.9	26	— 3.3	70	s.	26	11.6	.....	0	0	.....	.....	0	0	clear	C. K. Kitchel.
Pittsburg, Pennsylvania	29.31	744.5	30.16	766.1	44.0	6.7	80	nw.	8	3.6	.....	.....	10 s	.....	nw.	0.50	12.7	cloudy	J. H. Bryce.
Port Eads, Louisiana	30.16	766.1	30.17	766.3	67.5	19.7	99	s.	6	2.7	.....	0	7s; fg	.....	s.	0.01	0.3	fair	H. G. Christian.
Port Huron, Michigan	29.43	747.5	30.15	765.8	35.6	2.0	66	w.	1	0.4	.....	3 c	0	.....	.....	0.40	10.2	clear	W. O. Bailey.
Portland, Maine	29.96	761.0	30.01	762.2	31.0	— 0.6	88	n.	6	2.7	.....	.....	10 n	.....	n.	0.03	0.8	light snow	D. C. Murphy.
Portland, Oregon	29.63	752.6	29.70	754.4	31.0	— 0.6	88	s.	12	5.4	.....	.....	10 n	.....	s.	0.12	3.0	light snow	M. L. Hearne.
Portsmouth, N. Carolina	.....	.....	.....	.....	50	10.0	71	n.	8	3.6	.....	hz.	hz.	calm	calm	0.03	0.8	dense haze	F. P. Chaffee.
Prescott, Arizona	24.68	626.9	30.02	762.5	33	0.6	57	s.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. Mc N. Wright.
Provincetown, Mass	29.99	761.7	30.02	762.5	33	0.6	88	n.	4	1.8	.....	.....	10 s	.....	.....	0.08	2.0	cloudy	P. T. Jenkins.
Punta Rassa, Florida	30.20	767.1	30.21	767.3	63.5	17.5	87	e.	5	2.2	.....	0	hz.	.....	.....	0	0	clear	W. J. Evans.
Red Bluff, California	29.52	749.8	29.90	759.4	35.0	1.7	79	se.	3	1.3	.....	0	1 s	.....	.....	0.09	2.3	clear	J. M. Frantz.
Rio Grande City, Texas	29.70	754.4	29.94	760.5	73	22.8	82	se.	10	4.5	.....	0	0	.....	.....	0	0	clear	W. H. Taylor.
Rochester, New York	29.38	746.2	30.08	764.0	37	2.8	89	w.	12	5.4	.....	0	5 s	.....	nw.	0.15	3.8	fair	A. T. Sherwood.
Roseburg, Oregon	29.25	742.9	29.81	757.2	30	— 1.1	84	s.	4	1.8	.....	0	8 s	.....	sw.	0.32	8.1	cloudy	J. J. Nanry.
Sacramento, California	29.90	759.4	29.98	761.5	40.3	4.6	89	sw.	9	4.0	.....	0	2 s	.....	sw.	0.28	7.1	clear	J. A. Barwick.
St. Louis, Missouri	29.52	749.8	30.15	765.8	45.7	7.6	87	n.	7	3.1	.....	.....	10 s	.....	sw.	0	0	cloudy	J. H. Webber.
St. Paul, Minnesota	29.28	743.7	30.20	767.1	22.0	— 5.6	88	nw.	8	3.6	.....	0	0	.....	.....	0	0	clear	O. S. M. Cone.
St. Vincent, Minnesota	29.34	745.2	30.28	769.1	— 8	—22.2	100	nw.	6	2.7	.....	0	0	.....	.....	0.04	1.0	clear	G. Kingsbury.
Salt Lake City, Utah	25.23	640.8	29.75	755.6	37	2.8	51	se.	27	12.1	.....	.....	10 s	.....	.....	0	0	cloudy	J. Craig.
San Antonio, Texas	29.23	742.4	29.94	760.5	66.5	19.2	100	e.	3	1.3	.....	1 cs	7 s	.....	se.	0	0	cloudy	E. Lane.
San Diego, California	30.05	763.3	30.12	765.0	46.8	8.2	86	n.	3	1.3	.....	2 k	0	.....	.....	0	0	clear	A. C. Dobbins.
Sandusky, Ohio	29.45	748.0	30.17	766.3	40	4.4	73	nw.	4	1.8	.....	2 ck	3 s	w.	.....	0.11	2.8	fair	M. H. Perry.
Sandy Hook, New Jersey	30.09	764.3	30.13	765.3	35.0	1.7	72	sw.	5	2.2	.....	.....	10 s	.....	sw.	0.06	1.5	cloudy	B. A. Blundon.
San Francisco, California	29.94	760.5	30.01	762.2	45	7.2	68	w.	8	3.6	.....	0	8 s	.....	w.	0.07	1.8	cloudy	N. Gorom.
Santa Fé, New Mexico	23.08	586.2	30.05	763.5	40.4	4.7	64	s.	4	1.8	.....	.....	10 s	.....	s.	inap.	inap.	cloudy	H. N. Jones.
Savannah, Georgia	30.08	764.0	30.17	766.3	66	18.9	78	w.	6	2.7	.....	0	0	.....	.....	0	0	clear	H. M. Ford.
Shreveport, Louisiana	29.78	756.4	30.03	762.7	70	21.1	90	s.	5	2.2	.....	1 c	4 k	.....	s.	0	0	fair	E. N. Meekins.
Silver City, New Mexico	24.21	614.9	29.99	761.7	39	3.9	67	calm	0	0	.....	0	6 s	.....	calm	0.38	9.7	fair	J. B. Wallace.
Sitka, Alaska	29.91	759.7	29.97	761.2	17.5	— 8.1	56	ne.	12	5.4	.....	0	2 s	.....	calm	0	0	clear	J. J. McLean.
Smithville, North Carolina	30.09	764.3	30.13	765.3	53	11.7	93	ne.	1	0.4	.....	.....	10 s	.....	nw.	0	0	cloudy	J. C. Rickli.
Spokane Falls, Wash. Ter.	27.58	700.5	29.71	754.6	27	— 2.8	88	s.	4	1.8	.....	.....	10 s	.....	.....	0.02	0.5	cloudy	D. Moore.
Springfield, Illinois	29.47	748.5	30.19	766.8	43	6.1	71	ne.	5	2.2	.....	.....	10 s	.....	w.	0	0	cloudy	T. B. Jennings.
Springfield, Massachusetts	29.93	760.2	30.07	763.8	33.0	0.6	88	s.	3	1.3	.....	.....	10 s	.....	sw.	0.06	1.5	cloudy	T. S. Outram.
Springfield, Mo	28.58	725.9	30.14	765.5	50.6	10.3	86	se.	7	3.1	.....	.....	10s; ks	.....	.....	0.05	1.3	cloudy	J. B. Marbury.
Stockton, Texas	26.94	684.3	30.02	762.5	52.0	11.1	69	sw.	8	3.6	.....	0	1 s	.....	sw.	0	0	clear	J. O'Dowd.
Thatcher's Island, Mass	30.01	762.2	30.07	763.8	35.3	1.8	79	sw.	9	4.0	.....	10 k	0	sw.	.....	inap.	inap.	cloudy	G. Liebmann.
Toledo, Ohio	29.43	747.5	30.16	766.1	40.2	4.6	89	w.	3	1.3	.....	5 ck	0	w.	.....	0.18	4.6	fair	A. Buell.
Tucson, Arizona	27.56	700.0	30.02	762.5	47	8.3	86	s.	2	0.9	.....	0	3 s	.....	.....	0.11	2.8	clear	J. L. Whiteside.
Umatilla, Oregon	29.38	746.2	29.76	755.9	28.7	— 1.8	85	n.	2	0.9	.....	0	3 s	.....	.....	0.02	0.5	clear	R. P. Sibley.
Uvalde, Texas	28.92	734.6	29.90	759.4	68	20.0	93	se.	4	1.8	.....	.....	10 s	.....	se.	0	0	cloudy	E. C. Imlay.
Vicksburg, Mississippi	29.84	757.9	30.10	764.5	68	20.0	90	se.	4	1.8	.....	2 cs	fg.	calm	calm	0	0	clear	T. J. Kenan.
Visalia, California	29.65	753.1	30.03	762.7	47	8.3	86	s.	5	2.2	.....	.....	10 n	.....	s.	0.08	2.0	light rain	J. T. Cochran.
Washington, D. C.	29.99	761.7	30.11	764.8	40	4.4	100	calm	0	0	.....	.....	fg.	.....	.....	0.43	10.9	dense fog	B. M. Pursell.
West Las Animas, Colorado	25.84	656.3	29.92	760.0	32	0.0	62	calm	0	0	.....	0	6 s	.....	w.	0	0	fair	J. Grover.
Wickenburg, Arizona	.....	.....	.....	.....	27.5	— 2.5	77	calm	.....	.....	0	0	0	.....	.....	0	0	clear	H. A. Kremp.
Williamsport, Pa	29.49	749.0	30.12	765.0	36	2.2	89	s.	1	0.4	.....	.....	10 s	.....	.....	0.37	9.4	threatening	B. F. Hough.
Wilmington, N. Carolina	30.08	764.0	30.14	765.5	51	10.6	80	n.	1	0.4	.....	.....	10s; sk	.....	calm	0.02	0.5	cloudy	S. A. Haney.
Winnemucca, Nevada	25.30	642.6	29.80	756.9	22	— 5.6	73	nw.	12	5.4	.....	.....	10 ks	.....	sw.	0.09	2.3	cloudy	J. R. Williams.
Yankton, Dakota	28.76	730.5	30.15	765.8	31	— 0.6	78	e.	3	1.3	.....	10 ck	0	s.	.....	0	0	cloudy	J. H. Atfield.
Yuma, Arizona	29.87	758.7	30.02	762.5	47.3	8.5	62	sw.	1	0.4	.....	0	0	.....	.....	0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.04	559.8	.....	.....	57.0	13.9	75	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	Joaquin Gomez.
Bridgetown, Barbados, W.I.	30.06	763.5	30.07	763.8	77	25.0	90	e.	.....	.....	.....	5 k	5 ks	e.	e.	0	0	fair	J. A. Racker.
Buenaventura, U. S. C.	30.01	762.2	30.03	762.7	77	25.0	90	s.	8	3.6	.....	.....	10 ks	.....	.....	0	0	cloudy	J. I. Plume.
Guadeloupe, W. I.	30.00	762.0	30.02	762.5	75	23.9	87	e.	.....	.....	.....	2 k	2 ks	.....	.....	0	0	.....	B. Bigar.
Havana, Cuba, W. I.	30.17	766.3	30.22	767.6	73	22.8	68	se.	12	0.5	.....	0	2 ks	.....	e.	0	0	fair	A. Van Caneghem.
Kingston, Jamaica, W. I.	30.08	764.0	30.09	764.3	71.2	21.8	78	n.	2	0.9	.....	0	0	.....	.....	0	0	fine	Robert Johnston.
Navassa	30.14	765.5	30.22	767.6	76	24.4	72	ne.	10	4.5	.....	5 ck	2 s	e.	ne.	0	0	.....	F. M. Everett.
Paramaribo, S. A.	30.04	763.0	30.05	763.3	79	26.1	87	e.	.....	.....	2	5 k	8 k	e.	e.	2.000	50.8	.....	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.42	747.3	29.87	758.7	86	30.0	87	n.	.....	.....	1	0	6 ks	.....	calm	0	0	fair	Miss Flora A. Nichols.
Rivas	.....	.....	.....	.....	.....	.....	95	ne.	.....	.....	5	0	4 ks	.....	ne.	0	0	fair	Robert Mason.
Santiago de Cuba, W. I.	30.08	764.0	30.10	764.5	71	21.7	71	calm	0	0	.....	2 ks	0	.....	.....	0	0	fair	
York Factory, B. A.	29.94	760.5	29.99	761.7	—10.0	—23.3	100	n.	42	18.8	.....	.....	10 n	.....	n.	0.15	3.8	snowing	W. Wood.

STATIONS AND VESSELS.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	Upper. 0-10	Lower. 0-10	Upper. From.	Lower. From.	Inch.	Mill.			
BRITISH NAVAL.																		
H. M. S. Agincourt, N. 39° 12′, E. 6° 54′	30.23	767.8	59	15.0	87	ene.			1		3	ene.						d. clouds.
H. M. S. Albatross, N. 23° 08′, E. 114° 08′	29.96	761.0	72	22.2		calm			0		4							d. clouds.
H. M. S. Alert, S. 5° 06′ E. 53° 19′	29.86	758.4	86.8	30.4	74	e.			2-3		3							d. clouds.
H. M. S. Alexandra, Malta, Mediterranean	30.23	767.8	65.5	18.6	56	wsw.			1									blue sky.
H. M. S. Bacchante, Alexandria, Egypt	30.18	766.6	63	17.2	78	w.			1		1	wnw.						blue sky.
H. M. S. Boadicea, S. 34° 11′, E. 18° 26′	30.01	762.2	71	21.7	57	ese.			3-5		2	se.						squally.
H. M. S. Cleopatra, N. 13° 36′, E. 42° 55′	29.88	758.9	78	25.6	82	nw.			3-4		3	nnw.				1	nnw.	d. clouds.
H. M. S. Comus, Labuan Island, Borneo	29.91	759.7	81	27.2	95	nw.			1-2		2							d. clouds.
H. M. S. Diamond, S. 35° 00′, E. 104° 50′	29.89	759.2	64	17.8	89	s			2-5		3					2-3	se.	d. clouds.
H. M. S. Dido, N. 16° 00′, W. 61° 45′	30.11	764.8	75	23.9		ne.			1		2	ne.						raining.
H. M. Dock Yard, Bermuda, W. I.	29.81	757.2	61	16.1	82	wnw.			6		9	wnw.						squally.
H. M. S. Dwarf, S. 34° 54′, W. 56° 10′	29.80	756.9	69	20.6	95	nw.			2-3		8					2	nnw.	d. clouds.
H. M. S. Eclipse, S 16° 00′, E. 45° 28′	29.86	758.4	82	27.8		nne.			1		5							blue sky.
H. M. S. Euryalus, N. 22° 45′ E. 37° 10′	30.10	764.5	67	19.4	84	nnw.			3-4		0							d. clouds.
H. M. S. Fawn, N. 15° 04′ E. 42° 14′	29.87	758.7	77.5	25.3	65	nnw.			3		6	ne.				2	nw.	misty.
H. M. S. Flying Fish, N. 34° 41′, E. 135° 12′	29.98	761.5	58.5	14.7	100	w.			4		8	w.				3	w.	squally.
H. M. S. Gannet, S. 33° 37′, W. 78° 49′	30.14	765.5	66	18.9	68	wsw.			0-6		3					2	wsw.	squally.
H. M. S. Garnet, S. 45° 20′ W. 62° 30′	29.87	758.7	51	10.6	78	sse.			6		0					8	se.	d. clouds.
H. M. S. Inconstant, S. 20° 00′, E. 82° 00′	29.96	761.0	78	25.6	73	e.			2-3		2	ese.				2	e.	d. clouds.
H. M. S. Iron Duke, N. 22° 16′ E. 114° 10′	29.92	760.0	69	20.6	95	calm			0		6	e.						d. clouds.
H. M. S. Lark, S. 35° 03′, E. 174° 55′	29.99	761.7	70.3	21.3		nnw.			2		5					5	nne.	d. clouds.
H. M. S. Liffey, Coquimbo, Chili	29.95	760.7	60	15.6		calm			0		10							overcast.
H. M. S. Magpie, N. 25° 59′, E. 119° 27′	30.01	762.2	60.5	15.8	88	ne.			3-4		10					1	ne.	raining.
H. M. S. Malabar, N. 21° 35′, E. 37° 50′	29.97	761.2	72	22.2	90	nw.			5		2	nw.				2	nw.	d. clouds.
H. M. S. Orontes, N. 13° 39′ E. 42° 56′	29.93	760.2	78.5	25.8	79	nnw.			5		0					1	n.	d. clouds.
H. M. S. Rambler, Congo River, Lower Guinea, Africa.	29.85	758.2	82	27.8		sw.			1		5	ssw.				2	ssw.	blue sky.
H. M. S. Ready, Muscat, Arabia	30.02	762.5	68.1	20.1		nw.			6		7							d. clouds.
H. M. S. Rocket, Vancouver Id., Brit. Col.	29.67	753.6	26	— 3.3	88	nne.			4		2							squally.
H. M. S. Serapis, N. 45° 55′ W. 7° 30	30.21	767.3	58	14.4	76	ssw.			1		0					1	wsw.	squally.
H. M. S. Tamar, N. 36° 49′ E. 11° 58′	30.21	767.3	61.5	16.4	?	sse			3		0					1	ese.	blue sky.
H. M. S. Tenedos, N. 21° 27′ W. 71° 09′	30.17	766.3	72.5	22.5	71	ne.			2		2					1	nnw.	d. clouds.
H. M. S. Thalia, S. 18° 25′, W. 30° 55′	30.06	763.5	75.5	24.2		ene.			4		9					2	e.	showery.
H. M. S. Triumph, Juan Fernandez Island, S. A.	30.15	765.8	66	18.9	64	var.			1-6		5	ssw.						squally.
H. M. S. Woodlark, Bombay, India	29.87	758.7	84.5	29.2	68	wsw.			3-4		0							misty.
PORTUGUESE NAVAL.																		
Quanza, Santiago, Cape Verd Is.	30.03	762.7	80.6	27.0	53	ne.			3		0					3	ne.	foggy.
UNITED STATES NAVAL.																		
Navy Yard, Pensacola, Fla.	30.13	765.3	71	21.7	85	sw.	4	1.8			0			0	0			clear.
N. Yard, Portsmouth, N. H.	30.08	764.0	29	— 1.7	?	nw.	4	1.8			10	n.		0	0			cloudy.
Naval Hospital, Yokohama, Japan	29.61	752.1	43	6.1	96	n.			2		10	n.		0.20	5.1			raining.
Adams, Callao, Peru	29.68	753.9	68	20.0	90	sse.			1		0					gr'd		clear.
Alaska, Valparaiso, Chili	29.90	759.4	60	15 6	88	calm			0		0			0	0	sm'h		clear.
Alert, N. 14° 33′, E. 120° 15′*	29.78	756.4	82	27.8	75	nw.			3		0			0	0	sm'h		hazy.
Alliance, N. 17° 12′ W. 73° 28′	30.02	762.5	77	25.0	82	ene.			3		2			0	0	sm'h		clear.
Ashuelot, Chefoo, China	30.10	764.5	37	2.8	62	n.			4		2		calm			sm'h		fair.
Brooklyn, S. 37° 28′ W. 55° 05′	29.66	753.4	63	17.2	100	nnw.	9	4.0			10		nnw.	0.54	13.7	mod.	n.	cloudy.
Colorado, New York, N. Y.	30.08	764.0	35	1.7	90	w.	5	2.2			10		w.	0.04	1.0			misty.
Enterprise, Santa Lucia. W. I*	30.05	763.3	78	25.6	82	e.			1-2		10?							clear ?
Essex, N. 9° 45′ W. 18° 08′	29.97	761.2	81	27.2	66	ne.			2		2					sm'h	ne	clear.
Franklin, Norfolk, Va.	30.13	765.3	45	7.2	100	s.	3.6	1.6			10		s.	0.53	13.5			cloudy.
Galena, Palermo, Sicily	30.32	770.1	65	18.3	89	nne.			1		2					sm'h		hazy.
Independence, Mare Island, Cal.	29.84	757.9	43	6.1	92	w.			4		8		nw.	0.26	6.6			fair.
Kearsarge, N. 21° 44′ W. 85° 26	30.14	765.5	77	25.0	82	ene.			4		0					sm'h	ene.	clear.
Lackawana, Valparaiso, Chili†	30.02	762.5	62	16.7	100	calm			0		0							clear.
Lancaster, Piraeus, Greece*	30.17	766.3	68	20.0	57	ssw.			0-1		0			0	0			misty.
Marion, S. 33° 54′, E. 18° 24′*†	30.06	763.5	69	20.6	75	se.			4		2		calm	0	0	mod		fair.
Michigan, Erie, Pa.	30.11	764.8	37	2.8	81	wnw.			2		2		nw.					cloudy.
Minnesota, Newport, R. I.	30.08	764.0	39	3.9	73	wnw.	2	0.9			10							overcast.
Monocacy, N 34° 38′ E. 138° 15′	29.66	753.4	58	14.4	100	ssw.			3		10		sw.					rainy.
New Hampshire, Newport, R. I.	30.07	763.8	33	0.6	70	nw.			2		10					sm'h		overcast.
Nipsic, Gibraltar, Mediterranean	30.19	766.8	64	17.8	73	sw.			1		2					sm'h		clear.
Onward, Callao, Peru†	30.03	762.7	65	18.3	100	se.			1		2		n.			long	w.	clear.
Palos, Nagaski Japan	29.83	757.7	54	12.2	61	n.			1		5		calm					fair.
Passaic, Washington, D. C.	30.14	765.5	40	4.4	91	calm			0		10		calm					foggy.
Pensacola, Callao, Peru	29.91	759.7	66	18.9	89	calm	0	0	0		2		e.	0	0	sm'h		clear.
Powhatan, St. Lucia, W. I.	30.05	763.3	79	26.1	82	e.			1		2		e.					clear.
Quinnebaug, N. 36° 10′ E. 22° 32′	30.21	767.3	66	18.9	74	wsw.			2		2		calm			sm'h		clear.
Ranger, N. 18° 50′, W. 104° 14′*	29.95	760.7	75	23.9	90	calm			0		0			0	0	sm'h		hazy.
Richmond, Yokohama, Japan*	29.64	752.8	47	8.3	92	n.			2		10			0.01	0.3			rainy.
Shenandoah, N. 12° 29′, W. 55° 33′*	30.12	765.0	77	25.0	77	ne.			3-4		5?		ne.			sm'h		cloudy.†
St. Louis, League Island, Pa.	30.36	771.1	36	2.2	100	s.	1	0.4			10			0.1	3.			cloudy.
Swatara, Kobe, Japan*	29.44	747.8	61	16.1	82	w.			3		8		w.			mod.	ssw.	fair.
Tennessee, New Orleans, La*†	30.17	766.3	71	21.7	95	sse.	5	2.2			0			0	0			foggy.
Vandalia, Key West, Florida†	30.26	768.6	71	21.7	85	e.			1		0							clear.
Wabash, Boston, Mass.	30.05	763.3	32	0.0		nw.	1	0.4			10		nw.	0	0			hazy.
Wachusetts, Sitka, Alaska	29.92	760.0	16	— 8.9		nne.			3		2		calm			sm'h		clear.
Wyoming, Port Royal, S. C.	30.14	765.5	62	16.7	94	wsw.	4	1.8			8		nw.	0	0			cloudy.
Yantic, N. 24° 48′ W. 92° 34′*	29.91	759.7	75	23.9	100	ese.			1		8		se.			long	se.	fai.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Peruvian, N. 48° 45′ W. 27° 52′*	29.96	761.0	38	3.3	.....	nnw.	.....	.....	9	.....	4	.....	nw.	3 h'r	3 h'r	r'gh	nw.	clear.
S. S. Polynesian, Chebucto Head, N. S*	29.94	760.5	32	0.0	.....	e.	.....	.....	4	.....	10	.....	.....	2 h'r	2 h'r	r'gh	e.	d. fog.
S. S. Prussian, N. 52° 59′, W. 18° 40′*	29.77	756.1	46	7.8	.....	ne.	.....	.....	2	.....	4	.....	nw.	.....	.....	mod.	nw.	clear.
S. S. Scandinavian, N. 42° 51′, W. 61° 10′*	29.98	761.5	42	5.6	.....	e.	.....	.....	4	.....	10	.....	ese.	0	0	high	ese.	misty.
S. S. Waldensian, Glasgow, Scotland*	29.85	758.4	49	9.4	.....	wnw.	.....	.....	5	.....	5	.....	sw.	.....	.....	.....	.....	showery.
AMERICAN STEAMSHIP COMPANY.																		
S. S. British Crown, N. 50° 45′ W. 16° 50′†	29.96	761.0	53	11.7	.....	ne.	.....	.....	2	.....	9	.....	nne.	0	0	sm'h	nw.	overcast.
S. S. Illinois, Liverpool, Eng	29.89	759.2	58	14.4	94	sw.	.....	.....	3	.....	8	.....	sw.	.....	.....	.....	.....	fair.
S. S. Indiana, N. 39° 13′, W. 57° 42′†	29.92	760.0	64	17.8	68	ene.	.....	.....	4	.....	5?	.....	e.	h'vy	h'vy	h'vy	e.	cloudy.?
ANCHOR LINE.																		
S. S. Utopia, N. 34° 23′, W. 29° 02′*†	30.27	768.8	71	21.7	90	wnw.	.....	.....	2	.....	3	.....	nw.	0	0	h'vy	nw.	fair.
ATLAS LINE.																		
S. S. Alisa, Savanilla, U. S. C†	29.92	760.0	74	23.3	82	nne.	.....	.....	5	.....	0	.....	.....	0	0	.....	.....	fine.
S. S. Alvo, N. 32° 50′, W. 74° 06′	30.18	766.6	66	18.9	.....	calm	.....	.....	0	.....	5	.....	n.	1 h'r	1 h'r	high	nne.	hazy.
S. S. Arden, N. 26° 20′, W. 68° 01′	.....	.....	70	21.1	.....	nne.	.....	.....	1	.....	2	.....	nne.	.....	.....	mod.	nne.	fine.
S. S. Athos, N. 20° 31′ W. 74° 79′	29.93	760.2	.....	.....	.....	ene.	.....	.....	2	.....	2	.....	e.	0	0	sm'h	.....	clear.
BOSTON AND HALIFAX.																		
S. S. Carroll, Halifax, N. S.†	30.11	764.8	40	4.4	100	e. to se.	.....	.....	.....	.....	.....	.....	.....	rain	rain	.....	.....	raining.
BRITISH METEOROLOGICAL OFFICE.																		
S. S. Auckland, N. 16° 43′, W. 41° 21′	30.12	765.0	74	23.3	.....	ene.	.....	.....	4	.....	6	.....	.....	.....	.....	.....	.....	blue sky.
Baroda, S. 37° 49′, E. 76° 59′	30.37	771.4	54.3	12.4	80	se.	.....	.....	5	.....	7	.....	.....	.....	.....	.....	.....	d. clouds.
British Merchant, N 15° 50′ E 90° 59′	29.89	759.2	82.5	28.1	78	w.	.....	.....	1	.....	3	.....	.....	.....	.....	.....	.....	misty.
Bk. Caldew, N. 12° 38′, W. 37° 56′	30.08	764.0	74.5	23.6	.....	ne.	.....	.....	6	.....	6	.....	.....	.....	.....	.....	.....	misty.
Bk. Commewyne, N. 27° 44′, W. 61° 16′	29.89	759.2	66.6	19.2	69	wnw.	.....	.....	5	.....	7	.....	.....	.....	.....	.....	.....	d. clouds.
Coppename, N. 47° 51′, W. 19° 20′	29.86	758.4	52	11.1	60	w.	.....	.....	5–6	.....	4	.....	.....	.....	.....	.....	.....	blue sky.
S. S. Gordon Castle, N. 2° 39′, E. 101° 20′	29.85	758.2	85	29.4	81	se.	.....	.....	2	.....	4	.....	.....	.....	.....	.....	.....	d. clouds.
S. Lochee, N. 33° 41′, W. 41° 20′	30.26	768.6	63.6	17.6	92	ese.	.....	.....	6	.....	9	.....	.....	.....	.....	.....	.....	d. clouds.
Minho, N. 35° 20′, W. 11° 25′	30.23	767.8	65	18.3	78	nw.	.....	.....	2	.....	2	.....	.....	.....	.....	.....	.....	d. clouds.
Queen of Cambria, N. 18° 19′, E. 91° 38′.	29.84	757.9	82.9	28.3	73	wsw.	.....	.....	3	.....	2	.....	.....	.....	.....	.....	.....	blue sky.
CROMWELL LINE.																		
S. S. New Orleans, N. 32° 15′, W. 78° 15′*†	30.18	766.6	74	23.3	.....	w.	.....	.....	.....	.....	2	.....	calm	.....	.....	h'vy	ne.	smoky.
CUNARD LINE.																		
S. S. Gallia, N. 41° 50′, W. 59° 47′	30.00	762.0	52	11.1	?	ese.	.....	.....	6	.....	8	.....	e.	0	0	high	ese.	hazy.
S. S. Scythia, N. 41° 11′, W. 57° 23′†	30.00	762.0	58	14.4	93	e.	.....	.....	6	.....	10	.....	e.	18 h'r	18 h'r	h'vy	e.	hazy.
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. Canada, N. 49° 52′, W. 11° 32′	29.87	758.7	50.0	10.0	.....	ssw.	.....	.....	4	.....	7	.....	ssw.	0	0	.....	ssw.	
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Bohemia, N. 40° 47′, W. 65° 31′ *†	29.85	758.2	.....	.....	.....	nnw.	.....	.....	5	.....	8	.....	n.	0	0	cross	ne.	foggy.
S. S. Gillert, N. 40° 52′, W. 61° 45′	29.88	758.9	60	15.6	.....	e.	.....	.....	7	.....	10	.....	e.	2 h'r	2 h'r	hv'y	ene.	hazy.
S. S. Lessing, Hamburg, Germany	.....	.....	63	17.2	.....	nw.	.....	.....	2	.....	2?	.....	sw.	0	0	.....	.....	cloudy ?
S. S. Silesia, N. 49° 45′, W. 10° 56′*†	29.97	761.2	54.7	12.6	.....	s.	.....	.....	5–6	.....	8	.....	ssw.	0	0	4–5	s.	d. clouds.
S. S. Wieland, N. 42° 04′, W. 51° 02′	30.27	768.8	51	10.6	.....	e.	.....	.....	5–6	.....	10	.....	ese.	0	0	5–6	e.	stormy.
JOHNSTON LINE.																		
S. S. Thanemore, N. 48° 28′, W. 28° 20′	30.15	765.8	.....	.....	.....	n.	.....	.....	8	.....	8	.....	n.	hail	hail	...[ne	to nw	cloudy.
MALLORY LINE.																		
S. S. Colorado, N. 29° 22′, W. 91° 26′†	29.98	761.5	68	20.0	.....	sse.	.....	.....	5	.....	6	.....	w.	0	0	mod.	sse.	misty.
MERCHANTS' EXPRESS LINE.																		
S. S. Freja, N. 41° 04′, W. 47° 01′†	30.42	772.7	52	11.1	86	ese.	.....	.....	7	.....	10	.....	ese.	0	0	cross	e to se	squally.
S. S. Hermod, N. 49° 57′, W. 3° 50′*†	29.82	757.4	64.4	18.0	.....	s.	.....	.....	2	.....	4	.....	s.	0	0	sm'h	.....	fair.
NATIONAL LINE.																		
S. S. Erin, New York, N. Y	.....	.....	.....	.....	.....	wnw.	.....	.....	3	.....	2	.....	w.	0	0	.....	.....	fine.
S. S. Italy, N. 40° 15′ W. 70° 30′	30.06	763.5	.....	.....	.....	nnw.	.....	.....	2	.....	8	.....	nnw.	2 h'r	2 h'r	long	e.	cloudy.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Niagara, Havana, Cuba, W. I.*†	30.28	769.1	67	19.4	.....	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	.....	clear.
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Amsterdam, N. 41° 18′ W 63° 12′*†	29.92	760.0	60	15.6	.....	e.	.....	.....	6	.....	.....	.....	.....	.....	.....	.....	ese.	foggy.
S. S. Alvena, N. 18° 29′, W. 66° 44′*†	30.00	762.0	71	21.7	.....	s.	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	ne.	clear.
S. S. Atlas, N. 33° 55′, W. 74° 00′*†	30.21	767.3	62	16.7	.....	sse.	.....	.....	1	.....	.....	.....	.....	.....	.....	h'vy	ne.	fine.
S. S. City of Washington, N. 28° 40′, W. 78° 21′*†	30.30	769.6	73	22.8	.....	sw.	.....	.....	3	.....	.....	.....	.....	.....	.....	.....	ne.	fine.
S. S. Maas N. 42° 51′ W. 38° 15′.*	30.55	776.0	52	11.1	.....	ne.	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	nne.	fine.
S. S. Olbers, N. 7° 54′ W. 26° 00′*†	30.05	763.3	80	26.7	.....	ene.	.....	.....	3–4	.....	.....	.....	.....	.....	.....	sm'h	.....	fine.
NORTH GERMAN LLOYD.																		
S. S. Elbe, N. 48° 38′, W. 25° 30′	30.04	763.0	44.9	5.5	.....	nnw.	.....	.....	9	.....	10	.....	nw.	snow	snow	h'vy	nw.	stormy.
S. S. Hermann, N. 38° 46′, W. 65° 36′*†	30.00	762.0	59.9	15.5	.....	nnw.	.....	.....	3	.....	9	.....	nw.	2 h'r	2 h'r	high	e.	cloudy.
S. S. Kronprinz F. Wilhelm, N. 39° 48′, W. 71° 54′	30.07	763.8	39.2	4.0	.....	nnw.	.....	.....	3–4	.....	8	.....	wnw.	0	0	4	e.	cloudy.
S. S. Leipzig, N. 49° 30′, W. 14° 03′	29.81	757.2	53.5	11.9	87	w.	.....	.....	4	.....	10	.....	wnw.	3 h'r	3 h'r	r'gh	wnw.	clearing.
S. S. Main, N. 49° 13′, W. 19° 10′*	29.88	758.9	55.4	13.0	.....	w.	.....	.....	4–5	.....	7	.....	w.	0	0	mod.	wnw.	cloudy.
S. S. Mosel, N. 40° 19′, W. 71° 32′	30.11	764.8	36.5	2.5	.....	wnw.	.....	.....	3	.....	8	.....	wnw.	0	0	sm'h	wnw.	cloudy.
S. S. Nurnburg N. 1° 27′, W. 25° 20′*	29.97	761.2	80.0	30.0	72	ese.	.....	.....	1	.....	9	.....	ene.	1 h'r	1 h'r	.....	.....	heavy rain.
S. S. Oder, N. 40° 24′, W. 69° 56′	30.08	764.0	36.5	2.5	.....	n.	.....	.....	5	.....	6	.....	ne.	0	0	long	e.	cloudy.
S. S. Ohio, Bremerhaven, Germany	30.09	764.3	.....	.....	.....	ssw.	.....	.....	2	.....	0	.....	.....	0	0	.....	.....	clear.
S. S. Salier, N. 42° 02′, W. 59° 06′	30.03	762.7	46.4	8.0	.....	e.	.....	.....	8	.....	10	.....	e.	0	0	h'vy	e.	cloudy.
S. S. Strassburg, N. 47° 49′, W. 26° 48′	30.18	766.6	46.0	7.8	81	nw.	.....	.....	8–9	.....	6	.....	nw.	7 h'r	7 h'r	h'vy	nw.	fair.
OCCIDENTAL AND ORIENTAL S. S. MSHIP COMPANY.																		
S. S. Belgic, Yokohama, Japan†	29.63	752.6	52	11.1	72	ne.	.....	.....	2	.....	10	.....	.....	0	0	.....	.....	overcast.
S. S. Gaelic, N. 25° 53, E. 120° 43′†	29.95	756.7	63	17.2	89	ne.	.....	.....	3	.....	10	.....	ne.	.....	.....	sm'h	ne.	overcast.
S. S. Oceanic, N. 35° 52′, W. 133° 00′ *	30.22	767.0	52	11.1	66	nw.	.....	.....	4	.....	8	.....	nw.	.....	.....	5	nnw.	cloudy.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, N. 33° 22′, W. 78° 10′†	30.23	767.8	.....	.....	.....	sw.	.....	.....	2	.....	10	.....	sw.	0	0	chop	se.	smoky.
S. S. Seminole, N. 37° 10′, W. 74° 25′†	30.17	766.3	46	7.8	77	ese.	.....	.....	3	.....	8	.....	.....	4 h'r	4 h'r	long	ne.	cloudy.
OREGON IMPROVEMENT COMPANY.																		
S. S. Mississippi, Seattle, W. T†	29.72	754.9	34	1.1	79	calm	.....	.....	0	.....	10	.....	n.	.....	.....	.....	.....	cloudy.
S. S. Willamette, N. 41° 30′, W. 124° 28′*†	29.84	757.9	38	3.3	72	wnw.	.....	.....	5	.....	7	.....	nw.	0.5	13.	high	nw.	gloomy.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. City of Chester, N. 45° 58′, W. 124° 17′*†	29.87	758 7	39	3.9	55	wnw.	.....	.....	5	.....	5	.....	nw.	.....	.....	long	nw.	fair.
S. S. Oregon, San Francisco, Cal.†	30.01	762.2	44	6.7	92	sw.	.....	.....	1	.....	8	.....	sw.	.....	.....	.....	.....	raining.
PACIFIC COAST STE MSHIP COMPANY.																		
S. S. Ancon, N. 32° 42′ W. 117° 20′†	30.08	764.0	53	11.7	93	sw.	.....	.....	1	.....	5	.....	sw.	.....	.....	sm'h	sw.	fair.
S. S. Idaho, Esquimalt, Vancouver's I'd†	29.56	750.8	31	— 0.6	79	w.	.....	.....	1	.....	1	.....	w.	.....	.....	.....	.....	clear.
S. S. State of California, N. 38° 00′, W. 123° 10′†	29.97	761.2	44	6.7	84	w.	.....	.....	4	.....	5	.....	w.	0	0	.....	.....	squally.
S. S. Victoria, San Francisco, Cal†	30.00	762.0	45	7.2	84	nw.	.....	.....	3	.....	10	.....	.....	.....	.....	.....	.....	cloudy.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, Sydney, N. S. W	30.03	762.7	70	21 1	90	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	.....	clear.
S. S. City of New York, N. 24° —′, W. 151° 50′.†	30.03	762.7	72	22.2	90	w.	.....	.....	2	.....	8	.....	.....	0	0	mod	nw.	cloudy.
S. S. City of Pekin, N. 179° 11′ W. 101° 20′†	29.95	760.7	75	23.9	77	e.	.....	.....	1	.....	.....	.....	.....	0	0	sm'h	.....	hazy.
S. S. City of Rio de Janeiro, N. 13° 53′, W. 98° 23†.	30.16	766.1	82	27.8	79	nw.	.....	.....	2	.....	2	.....	w.	0	0	long	w.	fine.
S. S. City of Sydney, Sydney, N. S. W†	30.06	763.5	64	17.8	68	sw.	.....	.....	4	.....	5	.....	sw.	0	0	sm'h	.....	fair.
S. S. City of Tokio, N. 32° 35′, W. 165° 00′†	29.89	759.2	58	14.4	100	wsw.	.....	.....	6	.....	2	.....	sw.	2 h'r	2 h'r	r'gh	nw.	clear.
S. S. Clyde, N. 23° 43′, W. 121° 54′†	29.97	761.2	46	7.8	100	wnw.	.....	.....	4	.....	2	.....	nw.	4 h'r	4 h'r	str'g	wnw.	clear.
S. S. Colima, N. 32° 48′ W. 118° 30′†	30.09	764.3	54	12.2	80	w.	.....	.....	5	.....	9	.....	w.	0	0	cross	con.	cloudy.
S. S. Colon, N. 19° 09′, W. 74° 16′†	30.16	766.1	80	26.7	.....	ne.	.....	.....	3	.....	0	.....	.....	.....	.....	sm'h	.....	clear.
S. S. South Carolina, Panama, Panama†	29.97	761.2	79	26.1	78	nw.	.....	.....	4	.....	5	.....	ne.	0	0	sm'h	.....	fine.
S. S. Zelandia, N. 33° 58′, W. 132° 30′	30.36	771.1	49	9.4	86	nne.	.....	.....	3	.....	5	.....	e.	.....	.....	long	nne.	fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
QUEBEC STEAMSHIP CO.																		
S. S. Muriel, N. 39° 38′, W. 73° 30′						W.			3		10			0	0	sm'h		fair.
S. S. Bermuda, N. 33° 37′, W. 71° 25′†	30.12	765.0	56	13.3		ene.			5		10			½h'r	½h'r	long	ene.	
RED STAR LINE.																		
S. S. Nederland, N. 46° 05′, W. 29° 35′*†	30.85	783.6	43	6.1		nw.			6		8		wnw.	driz.	driz.	r'gh	nnw.	cloudy.
S. S. Rhynland, Staten Island, N. Y.	30.13	765.3	36	2.2	70	nw.			2		10		nw.	0	0			cloudy.
S. S. Switzerland, N. 50° 26′ W. 1° 15′†	30.11	764.8				wsw.			1		10		wsw.	0	0	sm'h		foggy.
S. S. Vaderland, N. 43° 51′, W. 40° 43′	30.51	774.9	49	9.4		ne.			4		10		ne.	0	0	long	nne.	cloudy.
S. S. Waesland, Antwerp, Belgium	30.39	771.9	50	10.0		calm			0		0			0	0			hazy.
ROTTERDAM LINE.																		
S. S. W. A. Scholten, Hellevoetsluis, Netherlands*†	30.19	766.8	58.8	14.9	73	wnw.			2		2			0	0	sm'h		
THINGVALLA LINE.																		
S. S. Thingvalla, Christiania, Norway†	29.94	760.5	47.3	8.5		sw.			1		2		sw.	0	0			clear.
WHITE STAR LINE.																		
S. S. Britannic, N. 50° 20′, W. 23° 52′*†	29.65	753.1	41	5.0		n.			8		8		n.	5 h'r	5 h'r	hv'y	n.	hailing.
S. S. Celtic, N. 40° 30′, W. 68° 24′*†	29.80	756.9	36	2.2	90	nnw.			3		10		nw.	0	0	mod.	se.	cloudy.
S. S. Germanic, N. 51° 14′, W. 12° 28′*†	29.90	759.4	55	12.8		w.			5		1		w.	sh'rs	sh'rs	mod.	wsw.	d. clouds.
S. S. Republic, N. 40° 30′, W. 70° 11′†	30.10	764.5	44	6.7	100	nnw.			3		9		nnw.	1 h'r	1 h'r	sm'h	ne.	cloudy.
WILSON LINE.																		
S. S. Romano, N. 48° 19′, W. 12° 22′*†	30.10	764.5	57	13.9		ssw.			6		8		ssw.	0	0	sm'h		cloudy.
S. S. Salerno, N. 39° 49′, W. 64° 40′†	30.25	768.3	63	17.2		ene.			1		7		ene.			cross	var.	showery.
WINSOR LINE.																		
S. S. Catherine Whiting, Off Fire Island, N. Y.†	30.18	766.6				wnw.			3				wnw.			light	e.	foggy.
S. S. Norman, N. 42° 30′, W. 70° 40′	30.06	763.5				nne.			6		10		n.	2 h'r	2 h'r	h'vy	ne.	cloudy.
MISCELLANEOUS.																		
Schr. Addie Fuller, Cedar Keys, Florida†	30.31	769.9	69	20.6	95	wsw.			3	0	7 k		w.	0	0			fair.
Bk. Adelaide, S. 22° 55′, W. 41° 11′*†	30.07	763.8	78	25.6		n.			5		3		n.	0	0	light	nne.	fair.
Schr Annie M. Smull, S. 19° 09′. W. 34° 09′*†	30.10	764.5	82	27.8		e.							ese.	0	0		ese.	clear.
Bk. Bergenseren, N. 35° 00′, W. 30° 50′†	30.31	769.9				ne.			3				ne.	0	0	1	nnw.	overcast.
Bk. Celestina, N. 18° 34′ W. 37° 05′*†	30.10	764.5				e.			3		4			0	0	mod.	ese.	hazy.
S. S Compton, N. 34° 27′ W. 75° 58′†	30.11	764.8				wsw.			1		10		wnw.	0	0	mod.	ne.	clearing.
Bk. E. L. Pettingill, S. 23° 06′ W. 95° 37′†	30.20	767.1				e.			4		2		ese.	0	0	sm'h		
Festina Lente, N. 54° 31′, E. 6° 21′*	30.04	768.0				wsw.			2		0			0	0	sm'h		hazy.
U.S. F.C.S. Fish Hawk, Annapolis, Md†	30.22	767.6	44	6.7	84	s.			2		10		calm	0.28	7.1			cloudy.
Bk. Freya, Baltimore, Md.			42	5.6		calm			0		10		nw.	4 h'r	4 h'r			fair.
S. Grecian, N. 2° 51′, W. 26° 40′*†	29.96	761.0	80	26.7		calm			0		8		ne.	0	0	sm'h		threatening.
Bk. Geo. Booth, S. 36° 40′, E. 5° 54′*†	30.15	765.8				wsw.			4		10			0	0	long	wsw.	
Bk. Granville, S. 18° 01′, W. 32° 05′*†	30.29	769.4				e.			1				ese.	rain	rain	sm'h		clear.
S. Hedwig, N. 54° 26′, E. 5° 58′	30.02	762.5	46.9	8.3	93	wsw.			3		1		w.	2 h'r	2 h'r	1	w.	drizzling.
Schr. Henry Denison, Georgetown, Brit. Guiana.†	29.98	761.5				ene.			3		2		ne.	0	0			fair.
Bk. Johanne Auguste, S 7° 37′. E. 87° 40′*	29.73	755.1				w.			3		3		w.	8 h'r	8 h'r	mod.	wsw.	
Bg John Wesley, N. 33° 23′, W. 73° 00′†	30.15	765.8	68	20.0		ne.			3		2		ne.	0	0	cross	ne.	hazy.
Bkt. Josephine, N. 28° 40′, W. 70° 25′*†	30.28	769.1	69	20.6	70	wnw.			5		10			0	0	long	n.	cloudy.
Bk. Kate Cann, N. 50° 02′, W. 3° 08′						sw.			3		0			0	0	sm'h	wsw.	smoky.
Bkt. Kryolith, N. 42° 29′, W. 16° 50′*†	30.06	763.5				ssw.			6		8		ssw.	0	0	sm'h		cloudy.
S. S. Lamperts, Thames River, Eng*	30.06	763.5	50.2	10.1	89	nw.			1		10					sm'h		dense fog.
Schr. Maggie Abbott, Baracoa, Cuba, W. 1*†	30.15	765.8				nne.			3				ne.	0	0			clear.
S. S. Malabar, N. 44° 00′, W. 7° 13′*†	30.02	762.5				e.			1		hz.		e.	0	0	sm'h		hazy.
S. S. Nebo, N. 32° 17′, W. 68° 22′*†	29.07?	738.4?				nw.			6		8		nw.	0	0	long	n.	cloudy.
Bk. Peppina, N. 39° 08′, E. 6° 19′†	30.16	766.1	65	18.3	84	ese.			2		5?		w.			sm'h		cloudy?
Bk. Pilgrim, S. 44° 18′, E. 84° 30′*†	30.10	764.5				s.			6				s.	rain	rain	cross	var.	cloudy.
Bkt. Spotless, N. 31° 00′, W. 50° 50′*†	29.80	756.9				ene.							s.			mod.	se.	cloudy.
Bk. Stella, S. 53° 05′, W. 66° 05′*	30.11	764.8	44.1	6.7	94	e.			3		4		e.	0	0			d. clouds.
Bk. Sunbeam, N. 33° 32′, W. 74° 07′*†	30.11	764.8	69	20.6	90	ssw.			1		0			0	0	high	ne.	clear.
Bg. Wanburn, S. 15° 00′, W. 9° 44′*†	30.10	764.5				ese.			6		4		sw.			sm'h		
S. Wm. Woodbury, Bremerhaven, Germany*†	29.80	756.9	52	11.1	52	w.			4				w.					

Data, as appearing in the International Bulletin of similar date.

Isobars in *black* exhibit atmospheric pressure at sea-level, and are charted from data as reported by the several observers.

Isotherms in *red* exhibit temperature of air, similarly charted.

Broken or dotted lines indicate that the lines so broken are doubtful.

Arrows, when charted, fly with the wind and exhibit wind-direction and force.

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W. B. Hazen

Brig. & Bvt. Maj. Gen'l.
Chief Signal Officer. U. S. A.

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INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON MARCH 20, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours	.....	.....	29.97	761.2	67.6	19.8	80	W.	.....	.....	3	.....	0	.....	.....	0	0	clear	Moiroud.
Algiers	.....	.....	30.02	762.4	66.6	19.2	61	sw.	.....	.....	1	.....	0	.....	.....	0	0	clear	Nicolas.
La Calle	.....	.....	30.08	764.0	71.2	21.8	72	e.	.....	.....	1	.....	4	.....	.....	0	0	cloudy	Fonfrède.
Tunis	.....	.....	30.10	764.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.08	763.9	65.8	18.8	47	w.	.....	.....	1	.....	3	.....	.....	inap.	inap.	pretty fair	Dumas.
Tebessa	.....	.....	30.17	766.3	65.1	18.4	35	w.	.....	.....	1	.....	2	.....	.....	0	0	fair	Derché.
Geriville	.....	.....	.....	.....	63.3	17.4	14	ssw.	.....	.....	4	.....	7	.....	.....	0	0	very cloudy	Lonchamp.
Laghouat	.....	.....	30.19	766.9	60.8	16.0	34	w.	.....	.....	6	.....	4	.....	.....	0	0	cloudy	Herbin.
Biskra	.....	.....	30.17	766.3	73.0	22.8	20	sse.	.....	.....	2	.....	5	.....	.....	0	0	cloudy	Malau.
Australian.																			
Melbourne, Victoria	30.08	764.0	30.17	766.3	55.8	13.2	81	se.	4	1.8	.....	.....	1	.....	.....	0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.46	748.2	29.99	761.8	68.0	20.0	25	e.	.....	.....	1	.....	7	.....	.....	0	0	.....	Prof. Ivan Stozir
Cracow, I. R Observatory	29.27	743.5	30.04	762.9	60.1	15.6	40	ese.	1.8	0.8	.....	.....	0	.....	.....	0	0	.....	Dr. Wierzbiski.
Eperies	29.18	741.2	30.06	763.5	55.4	13.0	48	se.	.....	.....	2	0	0	.....	.....	0	0	.....	Julius Mikolik.
Gratz	28.76	730.6	29.99	761.7	63.7	17.6	46	se.	.....	.....	2	.....	2	.....	.....	0	0	.....	Andreas Rospini.
Hermannstadt	28.64	727.4	30.04	763.1	63.9	17.7	36	se.	.....	.....	3	.....	0	.....	.....	0	0	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.60	726.5	29.93	760.2	57.2	14.0	64	e.	.....	.....	1	.....	0	.....	.....	0	0	clear	The Staff.
Lemberg	29.06	738.2	30.05	763.2	55.2	12.9	49	nw.	.....	.....	1	.....	1	.....	.....	0	0	.....	Dr. T. Stanecki.
Pola	29.94	760.4	30.05	763.2	59.7	15.4	94	ese.	.....	.....	4	.....	10	.....	.....	0	0	.....	I. R. Hydrographic Office.
Szathmar	29.61	752.0	30.07	763.8	60.8	16.0	33	s.	.....	.....	1	.....	0	.....	.....	0	0	.....	Joseph Midlinszky, S. J.
Szegedin	29.71	754.7	29.99	761.7	65.8	18.8	33	s.	.....	.....	2	.....	0	.....	.....	0	0	.....	Karl Stancel.
Trieste	29.97	761.2	30.07	763.8	65.5	18.6	41	calm	.....	.....	0	.....	10	.....	.....	0	0	.....	Rieder.
Vienna	29.28	743.7	29.98	761.6	62.6	17.0	41	se.	.....	.....	2	.....	1	.....	.....	0	0	.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.36	745.7	29.46	748.3	49.6	9.8	40	sw.	22	9.8	.....	.....	4	.....	.....	0.110	2 8	squally	W. Boswell.
Armagh, Observatory	29.44	747.8	29.69	754.1	47.9	8.8	57	wsw.	15	6.7	.....	.....	5	.....	.....	.....	.....	d. clouds	S. Call.
Bidston, Liverpool Obs'y	.....	.....	29.69	754.1	46.2	7.9	92	w.	19	8.5	.....	.....	9	.....	.....	.....	.....	overcast	John Hartnup.
Bolton, Sharples	29.14	740.1	29.68	753.9	45.7	7.6	92	w.	12	5.4	.....	.....	10	.....	.....	.....	.....	raining	Thomas Mackereth. [A.S.
Bradford, Yorkshire	29.24	742.7	29.64	752.8	48.3	9.1	84	sw.	.....	.....	4	.....	9	.....	.....	0.22	5.6	showery	J. McLandsborough, F. R
Bridgetown, Barbadoes	29.98	761.5	30.01	762.2	83.0	28.3	59	ne.	.....	.....	2	.....	6	.....	.....	.....	.....	gloomy	Pvt. J. Surgenor, A. H.C.
Cardington	.....	.....	29.75	755.6	55.6	13.1	64	sw.	.....	.....	1.0	.....	8	.....	.....	.....	.....	overcast	John McLaren.
Chatham, School M. E	29.68	753.9	29.81	757.2	60.8	16.0	85	sw.	.....	.....	3	.....	4	.....	.....	.....	.....	d. clouds	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	29.61	752.1	29.84	757.9	49.6	9.8	85	wnw.	.....	.....	2	.....	10	.....	.....	.....	.....	foggy	The Staff.
Fort Napier, Natal	27.60	701.0	29.81	757.2	80.2	26.8	66	e.	.....	.....	2	.....	3	.....	.....	.....	.....	blue sky	Pvt. E. K. Annis, A.H.C.
Free Town, Sierra Leone	29.60	751.8	29.83	757.7	89.0	31.7	66	nw.	.....	.....	1	.....	5	.....	.....	.....	.....	blue sky	Sergt. John Robinson.
Galway, Queen's College	.....	.....	29.70	754.4	.....	.....	.....	sw.	.....	.....	3	.....	5	.....	.....	.....	.....	d. clouds	J. O'Donaghue.
Gibraltar, Mediterranean	30.18?	766.6?	30.23?	767.8?	64.2	17.9	78	se.	.....	.....	3	.....	8	.....	.....	.....	.....	gloomy	Opl. O. Baldwin.
Glasgow, Observatory	29.36	745.7	29.56	750.8	45.6	7.6	67	wsw.	.....	.....	5	.....	6 n	.....	.....	.....	.....	d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.63	752.6	29.80	756.9	60.4	15.8	59	ssw.	.....	.....	2	.....	3	.....	.....	.....	.....	blue sky	The Staff.
Guernsey	29.54	750.3	29.84	757.9	55.5	13.1	70	sw.	.....	.....	1	.....	1	.....	.....	.....	.....	blue sky	A. Collenette, F. M. S.
Kew, Observatory	29.76	755.9	29.80	756.9	58.1	14.5	53	ssw.	19	8.5	.....	.....	4	.....	.....	.....	.....	d. clouds	The Staff.
Leicester, Museum	29.46	748.3	29.71	754.6	51.5	10.8	72	sw.	.....	.....	1	.....	10	.....	.....	.....	.....	overcast	J. C. Smith.
Malta, Mediterranean	30.08	764.0	30.15	765.8	66.8	19.3	65	sw.	.....	.....	2	.....	0	.....	.....	.....	.....	blue sky	I. H. Whysall.
Nassau, Bahamas	30.18	766.6	30.23	767.8	72.0	22.2	75	ne.	.....	.....	1	.....	0	.....	.....	.....	.....	blue sky	C. S. Duncombe.
Oscott, St. Mary's College	29.20	741.7	29.72	754.9	50.4	10.2	82	ssw.	.....	.....	3	.....	10	.....	.....	.....	.....	overcast	John Mac Emall.
Oxford, Radcliffe Obs'y	29.55	750.6	29.78	756.4	56.2	13.4	60	sw.	.....	.....	5	.....	2	.....	.....	.....	.....	misty	The Staff.
Plymouth	29.72	754.9	29.80	756.9	56.6	13.7	74	s.	.....	.....	2	.....	2	.....	.....	.....	.....	d. clouds	John Merrifield.
Sandwick Manse, Orkneys	.....	.....	29.29	744.0	43	6.1	67	ssw.	22	9.8	.....	.....	1	.....	.....	.....	.....	blue sky	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	30.11	764.8	30.18	766.6	55.0	12.8	43	sw.	.....	.....	1	.....	4	.....	.....	.....	.....	d. clouds	W. H. Lyne.
Shefield	29.41	747.0	29.69	755.1	51.9	11.1	83	sw.	.....	.....	2	.....	10	.....	.....	0.08	2.0	overcast	W. F. Cooper.
Silloth Rectory	29.59	751.6	29.62	752.3	46.7	8.2	83	w.	.....	.....	3	.....	6	.....	.....	0.015	0.4	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	29.69	754.1	45.4	7.4	89	w.	15	6.7	.....	.....	7	.....	.....	.....	.....	d. clouds	R. S. J. Perry.
Stratfield Turgiss	29.59	751.6	29.80	756.9	60.2	15.7	55	sw.	.....	.....	3-4	.....	3	.....	.....	.....	.....	squally	Rev. C. H. Griffiths, F.M.S.
Truro, Royal Institution	29.77	756.1	29.81	757.2	54	12.2	68	nw.	.....	.....	6	.....	10	.....	.....	.....	.....	raining	W. Newcombe.
Valencia, Observatory	29.85	758.2	29.87	758.7	47.8	8.8	52	w.	20	8.9	.....	.....	7	.....	.....	blank	blank	d. clouds	The Met'g'l Office.
Canadian.																			
Bathurst, N. B	.....	.....	.....	.....	32.0	0.0	.....	nw.	2	0.9	.....	.....	8 ks	.....	.....	0	0	cloudy	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.67	753.6	29.71	754.6	30	— 1.1	90	calm	0	0	.....	0	2 s	.....	.....	0.610	15.5	fair	H. J. Cundall, C. E.
Chatham, N. B*	29.67	753.6	29.73	755.1	24	— 4.4	91	sw.	2	0.9	.....	.....	10 ks	.....	sw.	0.20	5.1	cloudy	G. A. Blair.
Cornwall, Ontario	29.82	757.4	30.02	762.5	29.0	— 1.7	92	w.	.....	.....	1	0	0	.....	.....	0	0	clear	James Smith, M. A.
Dalhousie, N. B	29.56	750.8	29.73	755.1	27.0	— 2.8	.....	w.	.....	.....	2	.....	8 k	.....	.....	0.20	5.1	cloudy	H. A. Johnson.
Father Point, Quebec*	29.73	755.1	29.75	755.6	25	— 3.9	92	nw.	18	8.0	.....	.....	8 s	.....	w.	0.25	6.3	clearing	J. McWilliams.
Fort Garry, Manitoba*	29.29	744.0	30.20	767.1	6	—14.4	100	ne.	6	2.7	.....	5 k	5 n	ne.	ne.	0	0	cloudy	James Stewart.
Fredericton, N. B	29.73	755.1	29.80	756.9	23.0	— 5.0	100	w.	2	0.9	.....	.....	10 s	.....	.....	0.130	3.3	cloudy	Prof. Harrison.
Granton, Ontario	28.98	736.1	30.13	765.3	31.0	— 0.6	100	calm	0	0	.....	2 c	0	nw.	.....	0	0	fair	James Grant.
Halifax, N. S*	29.66	753.4	29.79	756.7	32	0.0	88	w.	9	4.0	.....	0	0	.....	.....	0.893	22.7	clear	A. Allison.
Hamilton, Ontario	29.80	756.9	30.21	767.3	31.2	— 0.4	84	n.	.....	.....	1	4 c	0	.....	.....	0	0	fair	Geo. Dickson, B. A.
Kingston, Ontario*	29.76	755.9	30.11	764.8	31	— 0.6	78	nw.	2	0.9	.....	2 ck	0	w.	.....	0	0	clear	A. P. Knight, M. A.
Little Glace Bay, N. S	29.56	750.8	29.60	751.8	33.0	0.6	86	w.	.....	.....	5	3 k	0	w.	.....	0.23	5.8	fair	C. H. Rigby.
Montreal, Quebec*	29.78	756.4	30.00	762.0	30	— 1.1	70	w.	24	10.7	.....	0	0	.....	.....	0	0	clear	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.43	747.5	30.17	766.3	26	— 3.3	76	n.	12	5.4	.....	5 k	2 ks	w.	w.	0	0	fair	Rev. R. Mosley.
Peterboro, Ontario	29.36	745.7	30.14	765.5	33.2	0.7	100	calm	.....	.....	0	0	3 s	.....	.....	0	0	fair	J. Dixon, B. A.
Port Dover, Ontario	29.42	747.3	30.14	765.5	32	0.0	79	calm	0	0	.....	8 ok	0	sw.	.....	0	0	fair	H. Morgan.
Port Stanley, Ontario	29.50	749.3	30.18	766.6	30	— 1.1	100	ne.	2	0.9	.....	8 ck	0	w.	.....	0	0	cloudy	M. Payne.
Quebec, Quebec*	29.53	750.0	29.86	758.4	30	— 1.1	92	nw.	.....	.....	5	.....	10 s	.....	nw.	0.02	0.5	cloudy	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.62	752.3	30.11	764.8	26	— 3.3	64	w.	2	0.9	.....	0	0	.....	.....	0	0	clear	W. H. McIntyre.
Sangeen, Ontario*	29.42	747.3	30.17	766.3	31	— 0.6	81	n.	6	2.7	.....	.....	10 ks	.....	.....	0	0	cloudy	
St. Andrews, N. B	29.76	755.9	29.81	757.2	32	0.0	89	w.	3	1.3	.....	0	0	.....	.....	0.12	3.0	clear	
St. John, N. B	29.62	752.3	29.79	756.7	33.0	0.6	89	w	7	3.1	.....	0	0	.....	.....	0.260	6.6	clear	G. Murdoch, C. E.
St. Pierre, N. F	.....	.....	29.45	748.0	35.6	2.0	.....	sw.	.....	.....	3	.....	.....	.....	.....	0.08	2.0	.....	N. F. Land, Com't.
Stratford, Ontario	28.78	731.0	30.12	765.0	31.0	— 0.6	89	calm	0	0	.....	2 cs	2 s	w.	.....	0	0	fair	C. I. Macgregor, M. A.
Sydney, C. B*	29.58	751.3	29.64	752.8	32	0.0	81	w.	12	5.4	.....	0	5 k	.....	nw.	0.15	3.8	.....	T. C. Hill, C. E.
Toronto, Ontario*	29.76	755.9	30.16	766.1	33	0.6	78	w.	2	0.9	.....	5 ck	2 s	w.	w.	0	0	cloudy	Magnetic Observatory.
Windsor, N. S	29.67	753.6	29.76	755.9	33.5	0.8	95	w.	12	5.4	.....	0	0	.....	.....	0.35	8.9	clear	Prof. W. R. Butler.
Woodstock, Ontario	29.04	737.6	30.15	765.8	30.1	— 1.1	82	n.	4	1.8	.....	0	7 ks	.....	.....	0	0	cloudy	Prof. Wolverton
Yarmouth, N. S*	29.80	756.9	29.87	758.7	34	1.1	81	w.	4	1.8	.....	0	0	.....	.....	0.15	3.8	clear	Lt. F. E. Wilmot, R. N.
Sub-series.																			
St. Johns, Newfoundland	29.49	749.0	29.74	755.4	37	2.8	100	s.	2	0.9	.....	.....	10	.....	.....	.....	.....	raining	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.10	764.5	30.13	765.3	67.0	19.4	94	wsw.	11.6	5.2	.....	0	7 8	.....	.....	0.220	5.6	hazy	John Duthie.
Cape Town, C. G. H. Obs'y	30.02	762.5	30.06	763.5	72.8	22.7	79	s.	30	13.4	.....	0	1	.....	.....	0	0	.....	The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
CHINESE (*Sub-series*).																			
Hankow	29.81	757.2	30.10	764.5	54.9	12.7	94	e.	.....	.....	2	.....	10	.....	.....	0.09	2.3	.....	N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.89	759.3	29.92	759.9	46.2	7.9	89	e.	5.6	2.5	.....	.....	10	.....	.....	0.008	0.2	covered	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	29.84	757.8	29.88	759.0	53.1	11.7	60	sw.	11	5	.....	.....	0	.....	.....	.....	.....	.....	Oversergent Fischer.
Fanöe	29.76	755.8	29.78	756.3	48.7	9.3	83	sw.	.....	.....	4	.....	1	.....	.....	.....	.....	.....	Overloerer Lauridsen.
Godthaab, Greenland	29.87	758.7	29.91	759.8	0.9	−17.3	.....	ene.	.....	.....	6	.....	5	.....	.....	.....	.....	.....	S. Kleinschmidt.
Stykkisholm, Iceland	29.37	746.0	29.41	747.1	8.2	−13.2	80	ne.	.....	.....	7	.....	10	.....	.....	.....	.....	snowing	A. O. Thorlacius.
Thorshavn	28.94	735.1	28.98	736.0	37.0	2.8	64	sw.	27	12	.....	.....	7	.....	.....	.....	.....	.....	Overloerer Bergh.
Vestervig	29.61	752.2	29.71	754.5	49.5	9.7	78	ssw.	.....	.....	6	.....	1	.....	.....	.....	.....	.....	Loerer Oesterboi.
FRENCH.																			
Agen, Normal School	29.27	743.5	29.91	759.6	65.8	18.8	56	calm	.....	.....	0	.....	2 k	.....	.....	0	0	slightly cl'dy	M. Labroue, Director.
Alençon, Normal School	29.34	745.1	29.89	759.1	51.8	11	86	sw.	.....	.....	1	.....	kn	.....	n.	0	0	.....	M. Nicot, Director.
Arras, Engineer School	29.60	751.7	29.85	758.1	62.2	16.8	57	sw.	.....	.....	6	.....	.....	.....	.....	0	0	.....	M. Klein, Commandant.
Avignon, Normal School	29.95	760.8	30.03	762.8	68.0	20	47	n.	.....	.....	1	.....	.....	.....	.....	0.031	0.8	.....	M. Giraud, Director.
Bar-sur-Seine	29.35	745.5	29.89	759.3	65.1	18.4	25	se.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Saillard, Director.
Beauvais, Normal School	29.62	752.4	29.88	759.0	57.7	14.3	52	e.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Frère Eugène Marl.
Besançon, Normal School	29.01	736.9	29.90	759.5	63.0	17.2	50	sw.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Gobin, Director.
Bordeaux, Observatory	29.62	752.4	29.88	758.9	64.8	18.2	56	sse.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Rayet, Director.
Bourges, Normal School	29.37	746.0	29.91	759.6	65.3	18.5	32	sw.	.....	.....	.....	.....	ks	.....	sw.	0	0	.....	M. Postel, Director.
Brest, Naval Observatory	29.66	753.3	29.90	759.5	57.2	14.0	78	sw.	.....	.....	2	.....	8	.....	sw.	0	0	.....	M. de Kermaree, Dir.
Caen, Normal School	29.76	755.9	29.84	757.8	64.0	17.8	39	ssw.	.....	.....	2	.....	2	.....	ssw.	0	0	slightly cl'dy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.52	749.9	29.84	757.9	65.7	18.7	36	s.	.....	.....	1	.....	2	.....	w.	0	0	slightly cl'dy	M. Jadot, Director.
Charleville, Normal School	29.39	746.4	29.88	759.0	66.2	19	49	ssw.	.....	.....	1	.....	2	.....	.....	0	0	¼ covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.56	725.4	29.86	758.5	71.6	22.0	29	s.	.....	.....	2	.....	8 k	.....	ssw.	0	0	¾ covered	M. Alluard, Director.
Cluny, Normal School	29.11	739.3	29.94	760.4	63.0	17.2	26	se.	.....	.....	2	.....	2	.....	.....	0	0	.....	M. de Villemontée, Dir.
Commercy, Normal School	29.08	738.5	29.94	760.5	66.6	19.2	38	w.	.....	.....	1	0	2 k	.....	.....	0	0	slightly cl'dy	Dr. Coulet, Director.
Gap, Normal School	27.52	699.1	30.05	763.2	58.1	14.5	34	.....	.....	.....	.....	ck	0	.....	.....	0	0	.....	M. Jeanglrard, Director.
Grasque, dn. Rhone	28.87	733.4	29.98	761.5	63.9	17.7	37	s.	.....	.....	3	.....	1	.....	s.	0	0	.....	M. Kina, Director.
Grenoble, Normal School	29.20	741.6	29.95	760.8	61.3	16.3	50	nw.	.....	.....	2	.....	ks	.....	s.	0	0	.....	M. Ablard, Director.
Guéret, Normal School	28.34	719.7	29.89	759.3	62.6	17	38	s.	.....	.....	1	.....	2	.....	sw.	0	0	slightly cl'dy	M. Rivoire, Director.
Lamballe, Normal School	29.61	752.0	29.87	758.8	50.9	10.5	81	sw.	.....	.....	2	.....	10	.....	sw.	0	0	covered	M. Olliffrault, Director.
Lescar, Normal School	29.30	744.2	29.84	758.0	72.7	22.6	28	ese.	.....	.....	2	.....	2	.....	.....	0	0	slightly cl'dy	M. Chauvin, Director.
Lorient, Naval Observatory	29.82	757.4	29.92	760.0	53.6	12.0	87	calm	.....	.....	0	.....	10	.....	.....	0	0	covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.93	734.7	29.97	761.3	60.8	16.0	33	s.	.....	.....	2	c	8k	s.	s.	0	0	¾ covered	M. André, Director.
Mans, Normal School	29.71	754.6	30.02	762.4	59.0	15	68	ssw.	.....	.....	1	.....	2	.....	ssw.	0	0	slightly cl'dy	M. Piboen, Director.
Marseille, Observatory	29.78	756.3	30.04	763.1	65.3	18.5	32	sse.	.....	.....	3	.....	1	.....	sse.	0	0	.....	M. Stephan, Director.
Montlouis l'Instituteur	24.74	628.3	29.58	751.3	46.4	8.0	59	sw.	16.8	7.5	.....	.....	5	.....	e.	0.087	2.2	.....	M. Cave, for Dr. Fines.
Montpellier, Normal School	29.88	759.0	30.00	762.1	60.8	16	77	se.	.....	.....	3	.....	5	.....	se.	0	0	cloudy	M. Galzin, Director.
Nancy, Normal School	29.16	740.6	29.92	760.0	66.2	19	23	ssw.	.....	.....	1	2 ck	0	ssw.	.....	0	0	slightly cl'dy	M. Hasse, Director
Nantes, Observatory	29.77	756.1	29.93	760.2	56.3	13.5	73	ssw.	.....	.....	0–2	0	9kn	.....	ssw.	0	0	.....	M. Larocque, Director.
Perpignan, Observatory	29.84	758.0	29.95	760.8	63.9	17.7	56	s.	18.6	8.3	.....	.....	7	s;nw	se.	0	0	.....	Dr. Fines, Director.
Pic-du-Midi, Summit	21.12	536.3	.....	.....	24.3	− 4.3	.....	e.	.....	.....	1	.....	10	.....	e.	0.201	5.1	snowy	Gen'l de Nansouty, Dir.
Privas, Normal School	28.98	736.0	30.02	762.6	64.8	18.2	43	s.	.....	.....	1	.....	.....	.....	.....	0	0	.....	M. Taillieu.
Puy de Dôme Obs'y, Summit	25.08	637.0	.....	.....	44.4	6.9	63	w.	.....	.....	2	.....	8 k	.....	.....	0	0	¾ covered	M. Alluard, Director.
Rochefort, Naval Obs'y	29.85	758.3	29.89	759.1	62.4	16.9	75	ssw.	.....	.....	1	.....	8	.....	s.	0	0	¾ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.61	752.2	29.83	757.7	50.2	10.1	89	n.	.....	.....	1	.....	10	.....	.....	0	0	covered	M. Mouillot, Director.
Rodez, Normal School	27.81	706.4	29.93	760.1	59.0	15	33	e.	.....	.....	1	.....	5	9.	s.	0	0	fair	M. Serger, Director.
Rouen, Normal School	29.83	757.7	29.88	758.9	59.4	15.2	66	w.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Platrier, Director.
Saint Maur, Observatory	29.72	754.8	29.88	759.0	65.1	18.4	45	se.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Renou, Director.
Toulouse, Observatory	29.22	742.1	29.94	760.4	65.8	18.8	55	sse.	.....	.....	3	.....	2	.....	s.	0	0	slightly cl'dy	M. Bailland, Director.
Versailles, Observatory	29.39	746.6	29.89	759.1	64.4	18.0	46	sw.	.....	.....	1	.....	.....	.....	.....	0	0	.....	Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.61	752.1	29.90	759 5	64.4	18.0	46	sse.	.....	.....	1	.....	0	.....	.....	0	0	.....	M. Marié Davy, Director
GERMAN.																			
Bamberg	29.11	739.3	29.96	761.0	62.6	17.0	60	calm	.....	.....	0	0	0	.....	.....	0	0	.....	Prof. Dr. Hoh.
Berlin	29.69	754.0	29.86	758.4	65.8	18.8	40	s.	.....	.....	1	.....	0	.....	.....	0	0	.....	Prof. Dr. Arndt.
Breslau	29.46	748.3	29.99	761.8	64.4	18.0	22	ssw.	.....	.....	2	.....	0	.....	.....	0	0	.....	Royal University Obs'y.
Carlsruhe	29.51	749.5	29.94	760.4	63.3	17.4	51	sw.	.....	.....	2	.....	9	sw.	.....	0	0	.....	Albert Senz.
Cassel	29.15	740.4	29.86	758.5	65.7	18.7	28	s.	.....	.....	2	.....	2	s.	.....	0	0	.....	Dr. H. Möhl.
Frankfort on the Main	29.54	750.4	29.91	759.6	62.2	16.8	48	sw.	.....	.....	1	.....	1	.....	.....	0	0	.....	Physical Society.
Friedrichshafen	28.53	724.6	29.96	760.9	54.7	12.6	68	ssw.	.....	.....	2	.....	2	sse.	.....	0.193	4.9	.....	Wilhelm, Chief Tel.
Hamburg	29.78	756.3	29.87	758.7	60.1	15.6	61	wsw.	.....	.....	3	.....	0	.....	.....	0	0	.....	E. Preller.
Kiel	29.81	757.1	29.82	757.5	53.8	12.1	60	w.	.....	.....	2	.....	c	.....	.....	0	0	.....	Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.48	748.8	29.89	759.3	64.8	18.2	32	sw.	.....	.....	2	.....	1	sw.	.....	0	0	hazy	H. Leppig, Asst.
Magdeburg	29.68	753.8	29.86	758.4	70.0	21.1	32	s.	.....	.....	1	0	0	.....	.....	0	0	.....	Dr. Assmann.
Memel	29.95	760.7	30.00	761.9	43.5	6.4	84	wsw.	.....	.....	2	0	0	.....	.....	.....	.....	.....	Issermann.
Munich	28.13	714.6	29.99	761.8	62.4	16.9	38	nw.	.....	.....	1	.....	1	se.	.....	0	0	.....	Central Station.
Neufahrwasser	29.93	760.2	29.95	760.6	63.7	17.6	32	sw.	.....	.....	1	.....	1	.....	.....	0	0	.....	A. Lothes.
Neustadt, Palatinate	29.39	746.4	29.91	759.8	61.5	16.4	56	w.	.....	.....	1	.....	0	.....	.....	0	0	.....	Dickmether.
Stuttgart	28.97	735.7	29.83	757.7	66.7	19.3	38	e.	.....	.....	1	.....	4	s.	.....	0.016	0.4	.....	Prof. Dr. Schoder.
Wustrow	29.85	758.3	29.88	758.9	54.1	12.3	56	sw.	.....	.....	2	0	2 8	.....	.....	0	0	.....	Profs. Brandes & Reimer.
GREEK.																			
Athens	29.82	757.3	30.20	767.1	67.3	19.6	.....	sw.	.....	.....	1.5	.....	4	.....	.....	0	0	misty	Schmidt & Wourlisch.
INDIAN.																			
Bellary	28.34	719.8	.....	.....	98.8	37.1	15	ese.	2.7	1.2	.....	3 ck	2	wnw.	.....	0	0	d. clouds	
Kurrachee	29.96	761.0	30.01	762.3	81.8	27.7	56	wnw.	23	10.3	.....	.....	7	sw.	.....	0	0	d. clouds	
Deesa	29.41	747.0	29.87	758.7	99.1	37.3	31	nw.	10.2	4.6	.....	.....	3	nw.	.....	0	0	d. clouds	
Bombay	29.78	756.3	29.81	757.3	85.2	29.6	58	nnw.	30	13.4	.....	.....	0	.....	.....	0	0	blue sky	
Poona, Yarrowda	27.99	710.8	29.77	756.1	100.4	38.0	9	ene.	8	3.6	.....	.....	3	w.	.....	0	0	d. clouds	
Belgaum	27.32	694.0	29.78	756.4	93.6	34.2	18	e.	4	1.8	.....	.....	3	e.	.....	0	0	misty	
Lahore	29.14	740.2	29.87	758.8	89.1	31.7	31	n.	2.0	0.9	.....	.....	2	.....	.....	0	0	blue sky	
Roorkee	28.88	733.6	29.76	756.0	88.2	31.2	31	nw.	4.3	1.9	.....	.....	8	.....	.....	0	0	.....	
Agra	29.27	743.5	29.82	757.4	96.1	35.6	15	n.	9.1	4.1	.....	.....	0	.....	.....	0	0	.....	
Nagpur	28.76	730.5	29.76	756.0	100.5	38.0	14	ne.	3.2	1.4	.....	.....	0	.....	.....	0	0	blue sky	
Jubbulpore	28.50	723.9	29.82	757.5	93.2	34.0	24	n.	2.3	1.0	.....	.....	0	.....	.....	0	0	blue sky	
Lucknow	29.40	746.8	29.77	756.1	95.0	35.0	20	wnw.	8.7	3.9	.....	.....	0	.....	.....	0	0	misty	
Allahabad	29.46	748.2	29.76	755.9	94.6	34.8	22	nw.	0.5	0.2	.....	.....	0	.....	.....	0	0	blue sky	
Patna	29.58	751.4	29.77	756.0	88.8	31.6	35	nw.	4.7	2.1	.....	.....	0	.....	.....	0	0	blue sky	
Hazaribagh	27.79	705.8	29.76	756.0	86.8	30.4	43	wnw.	9.3	4.2	.....	.....	0	.....	.....	0	0	blue sky	
Cuttack	29.70	754.2	29.77	756.2	93.0	33.9	50	ssw.	0.8	0.4	.....	.....	0	.....	.....	0	0	blue sky	
Calcutta, Alipore	29.75	755.6	29.77	756.2	87.6	30.9	52	sw.	1.0	0.4	.....	.....	0	.....	.....	0	0	blue sky	
Dhubri	29.66	753.4	29.78	756.4	84.1	28.9	54	calm	9.7	4.3	.....	.....	0	.....	.....	0	0	blue sky	
Chittagong	29.77	756.1	29.86	758.4	80.7	27.1	80	sw.	5.1	2.3	.....	.....	0	.....	.....	0	0	blue sky	
Sibsagar	29.50	749.2	29.84	757.9	74.2	23.4	71	ne.	4.1	1.8	.....	.....	0	.....	.....	0	0	blue sky	
Jeypore	28.45	722.6	29.86	758.3	94.2	34.6	17	nw.	6.1	2.7	.....	.....	2	.....	nw.	0	0	d. clouds	
Zanzibar, Africa	29.83	757.7	.....	.....	86.3	30.2	70	ene.	2.7	1.2	.....	.....	7	.....	.....	0	0	d. clouds	
Trichinopoly	29.63	752.6	.....	.....	89.1	31.7	44	s.	2	0.9	.....	.....	10	.....	.....	0	0	overcast	
ITALIAN.																			
Udine	29.68	753.8	30.09	764.2	64.6	18.1	30	sw.	0.7	0.3	.....	.....	8	.....	.....	0	0	.....	Prof. Giovanni Clodig.
Milan	29.52	749.9	30.04	763.1	63.3	17.4	42	ne.	4.3	1.9	.....	.....	5	.....	.....	0	0	.....	Prof. Schiaparelli.
Padua	29.95	760.8	30.06	763.6	59.7	15.4	68	ese.	8.7	3.9	.....	.....	10	sw.	.....	0	0	.....	Prof. Dott. Lorenzoni.
Moncalieri	29.13	739.9	30.04	763.0	62.6	17.0	50	e.	8.7	3.9	.....	.....	5	.....	.....	0	0	.....	Prof. P. F. Denza.
Genoa	29.90	759.4	30.09	764.3	59.5	15.3	61	sw.	4.3	1.9	.....	.....	2	sw.	.....	0	0	.....	Prof. G. M. Garibaldi.
Mondovi	28.12	714.3	30.04	763.1	58.6	14.8	52	nw.	.....	.....	6	.....	3	.....	.....	.0	0	.....	Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
ITALIAN.—Continued.																			
Pesaro	29.98	761.4	30.02	762.6	55.9	13.3	87	ne.	11.9	5.3	.....	.....	10	.....	.....	0	0	.....	Prof. Luigi Guidi.
Florence	29.82	757.5	30.08	764.0	58.3	14.6	67	nw.	.....	.....	2	.....	2	.....	.....	0	0	.....	Prof. Costantino Pitter.
Leghorn	29.94	760.4	30.02	762.6	61.3	16.3	65	sw.	0.7	0.3	.....	.....	5	.....	.....	0	0	.....	Prof. P. Monte.
Rome	29.91	759.8	30.09	764.2	64.4	18.0	54	wsw.	7.4	3.3	.....	.....	6	.....	.....	0	0	.....	Prof. P. S. Ferrari.
Lecce	29.85	758.2	30.11	764.7	65.8	18.8	58	ese.	15.0	6.7	.....	.....	3	se.	.....	0	0	.....	Prof. C. de Giorgi.
Cosenza	29.19	741.4	30.08	764.1	65.5	18.6	75	wnw.	3.8	1.7	.....	.....	2	nw.	.....	0	0	.....	Prof. D. Conti.
Cagliari	29.83	757.6	30.02	762.5	64.9	18.3	67	se.	.....	.....	2	.....	5	.....	.....	0	0	.....	Prof. A. Pacinotti.
Palermo	29.87	758.7	30.12	765.1	65.5	18.6	41	ne.	4.9	2.2	.....	.....	0	.....	.....	0	0	.....	Prof. G. Ciaccialore.
Syracuse	30.02	762.5	30.07	763.7	69.1	20.6	51	ssw.	13.6	6.1	.....	.....	3	sw.	.....	0	0	.....	Prof. Vincenzo Guiliano.
Sub-series.																			
Naples, S. R	29.57	751.0	30.09	764.2	60.4	15.8	73	sw.	2.5	1.1	.....	.....	1	wsw.	.....	0	0	.....	Prof. T. Brioschi.
Stelvio	22.17	563.1	.....	.....	34.9	1.6	69	w.	.....	.....	4	.....	10	.....	.....	0.232	5.9	misty	Prof. P. F. Denza.
Valdobbia	22.20	564.0	.....	.....	36.3	2.4	73	n.	.....	.....	2	.....	10	.....	.....	0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Aomori	29.76	755.9	29.80	756.9	34.4	1.3	89	ssw.	17.1	7.6	.....	.....	10 ks	.....	.....	0.280	7.1	overcast	K. Ogawa.
Hakodate	29.83	757.7	29.84	757.9	31.5	— 0.3	80	e.	3.0	1.3	.....	.....	10	.....	.....	0.150	3.8	snowing	
Hiroshima, I. M. Obs'y	29.95	760.7	29.96	761.0	44.5	6.9	75	nne.	5.1	2.3	.....	0	0	.....	.....	0	0	clear	K. Sasaki.
Kanazawa	29.97	761.2	30.07	763.8	40.2	4.6	75	n.	1.9	0.8	.....	ck	10 s	.....	.....	0	0	cloudy	S. Endo.
Kioto	29.84	757.9	30.02	762.5	41.1	5.1	69	nnw.	1.8	0.8	.....	ck	3 s	.....	.....	0	0	fair	M. Tojima.
Kochi	29.93	760.2	29.95	760.7	50.0	10.0	69	nw.	3.5	1.6	.....	0	6s	.....	.....	0	0	fair	
Nagasaki, I. M. Obs'y	29.74	755.4	29.94	760.5	47.8	8.8	89	ne.	1.4	0.6	.....	0	2 s	.....	.....	0.010	0.3	clear	S. Takehayashi.
Niigata	30.01	762.2	30.04	763.0	39.5	4.2	76	w.	5.8	2.6	.....	10 ck	0	.....	.....	0.005	0.1	cloudy	
Nobiru	29.83	757.7	29.85	758.2	38.1	3.4	62	nw.	29.5	13.2	.....	0	0	.....	.....	0	0		H. Midzushina.
Supporo	.....	.....	.....	.....	29.0	— 1.7	94	calm	0	0	.....	.....	10	.....	.....	0.165	4.2	snowing	
Tokei Obs'y, Yeddo	29.81	757.2	29.88	758.9	43.7	6.5	54	nnw.	11.2	5.0	.....	0	0	.....	.....	0	0	clear	The Staff.
Wakayama	29.95	760.7	30.01	762.2	43.3	6.3	65	ne.	8.6	3.8	.....	0	0	.....	.....	0	0	clear	Y. Kuwamuea.
MAURITIUS.																			
Mauritius Observatory	29.72	754.9	29.91	759.7	78.2	25.7	80	nne.	3.5	1.6	.....	3 cs	6 ks;n	nw.	e.	0	0	cloudy	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.72	602.6	29.95	760.6	65.3	18.5	54	sw.	.....	.....	.....	0	0	.....	.....	0	0	foggy	Vicente Fernandez.
Leon	24.43	620.4	30.16	766.2	55.2	12.8	74	nnw.	.....	.....	1	0	4	.....	w.	0	0	foggy	Prof. M. Leal.
Mazatlan	29.78	756.5	30.05	763.2	66.8	19.3	97	se.	1.6	0.8	.....	.....	10 n	.....	se.	0	0	covered	F. Quijano, U. E.
Mexico, Central Obs'y	23.14	587.7	30.24	768.0	51.3	10.7	62	calm	0	0	.....	0	0	.....	.....	0	0	foggy	M. Tena, M. D.
Morelia	24.17	614.0	30.29	769.3	58.3	14.6	79	se.	.....	.....	3	2	3	s.	s.	0	0	½ cloudy	The Staff.
Pabellon, Aguascalientes	23.98	609.0	30.02	762.5	55.9	13.3	61	calm	.....	.....	0	4	1	.....	.....	0	0	clear	M. V. de Leon, M. E.
Puebla, Catholic Institute	23.44	595.4	30.31	769.8	47.3	8.5	70	calm	0	0	.....	0	0	.....	.....	0	0	clear	Prof. P. Spina.
San Luis Potosi	24.22	615.1	30.24	768.0	65.3	18.5	63	e.	.....	.....	1	5	0	w.	.....	0.020	0.5	½ clouded	G. Barroeta, M. D.
Vera Cruz	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Zacatecas	22.62	574.1	30.28	769.0	51.8	11.0	62	sw.	5.2	2.3	.....	0	4	.....	.....	0	0	½ clouded	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.88	759.0	29.88	759.0	52.9	11.6	.....	wsw.	.....	.....	3	.....	.....	.....	.....	0.016	0.4	.....	
Groningen	29.79	756.6	29.84	758.0	54.7	12.6	.....	sw.	.....	.....	1	.....	.....	.....	.....	0	0	.....	
Helder	29.83	757.7	29.83	757.7	45.3	7.4	.....	ssw.	.....	.....	2	.....	.....	.....	.....	0	0	.....	
Hellevoetsluis	29.87	758.8	29.87	758.8	53.8	12.1	72	w.	.....	.....	2	.....	.....	.....	.....	0	0	.....	
Utrecht	29.82	757.5	29.87	758.7	58.5	14.7	75	sw.	.....	.....	1	.....	0	.....	.....	0	0	clear	H. van der Brink.
NORWEGIAN.																			
Bergen	29.34	745.2	29.40	746.8	44.6	7.0	94	s.	20	9	.....	.....	10	.....	.....	0.748	19.0	raining	
Brono	29.20	741.7	29.24	742.7	38.8	3.8	80	sw.	18	8	.....	.....	10	.....	.....	0.098	2.5	raining	
Christiania	29.39	746.6	29.54	750.3	43.7	6.5	93	ssw.	9	4	.....	.....	10	.....	.....	0	0		
Gjæsvær	29.60	751.9	29.63	752.5	28.4	— 2.0	.....	e.	.....	.....	2	.....	0	.....	.....	.....	.....	.....	
Lodingen	29.33	744.9	29.37	746.1	31.1	— 0.5	55	e.	.....	.....	2	.....	10	.....	.....	0.173	4.4	.....	
PORTUGUESE.																			
Angra, Azores	.....	.....	.....	.....	54.1	12.3	59	e.	11.2	5.0	.....	.....	3	.....	.....	0	0	.....	Dr. J. A. Sampaio.
Campo Major	28.95	735.3	29.94	760.5	60.4	15.8	54	s.	9.4	4.2	.....	.....	9	.....	.....	0	0	.....	Dr. A. M. R. dos Santos.
Funchal, Maderia	30.09	764.3	30.18	766.5	63.9	17.7	38	wnw.	7.4	3.3	.....	.....	1	.....	.....	0.031	0.8	.....	Capt. D. A. de Cunha.
Lisbon, Observatory	29.55	750.5	29.91	759.6	57.7	14.3	76	ssw.	12.5	5.6	.....	.....	7	.....	.....	0	0	.....	The Staff.
Ponta Delgada, Azores	30.47	773.8	30.54	775.6	54.7	12.6	59	nne	13.0	5.8	.....	.....	4	w.	.....	0	0	.....	
Saint Paul de Loando	29.67	753.5	29.86	758.5	82.4	28.0	85	w.	1.3	0.6	.....	.....	4	sse.	.....	blank	blank	.....	
Serra da Estrella	25.13	638.3	29.92	760.0	39.9	4.4	73	sse.	14.3	6.4	.....	.....	10	.....	.....	0.012	0.3	.....	
RUSSIAN.																			
Akmolinski	28.89	733.8	30.04	763.1	18.9	— 7.3	95	ssw.	27	12	.....	5 ck	0	.....	.....	0.004	0.1	.....	Major K. Lasarew.
Archangel	29.72	754.8	29.74	755.3	20.5	— 6.4	82	wnw.	18	8	.....	.....	10	.....	.....	0	0	.....	Capt. Sseliwerstow.
Astrakhan	30.24	768.0	30.15	765.9	33.8	1.0	43	wnw.	22	10	.....	.....	9 k	.....	.....	0.020	0.5	.....	Capt. Wisganow.
Barnaul	29.61	752.1	30.14	765.6	25.7	— 3.5	82	wsw.	45	20	.....	.....	10	.....	.....	0	0	.....	Meteorological Obs'y.
Dorpat	29.67	753.6	29.92	760.0	38.3	3.5	83	sw.	4	2	.....	.....	10 n	.....	.....	0	0	.....	Observatory.
Ekaterinburg	28.46	722.9	29.48	748.7	16.2	— 8.8	60	w.	18	8	.....	.....	10	.....	.....	.....	.....	snowing	Meteorological Obs'y.
Kasan	29.36	745.8	29.65	753.0	23.4	— 4.8	70	wsw.	7	3	.....	.....	10	.....	.....	0	0	.....	Observatory.
Kertch	30.24	768.1	30.26	768.6	44.6	7.0	53	sw.	7	3	.....	0	5 ks	.....	.....	0	0	.....	Lagorio & Sastyrex.
Kief	29.35	745.6	30.00	761.9	49.3	9.6	38	sw.	11	5	.....	0	0	.....	.....	0	0	.....	Observatory.
Lugan	29.87	758.8	30.09	764.2	35.8	2.1	53	w.	45	20	.....	.....	10	.....	.....	blank	blank	.....	Meteorological Obs'y
Moscow	29.34	745.3	29.84	758.0	28.4	— 2.0	58	n.	4	2	.....	.....	9 ks	.....	.....	0	0	.....	Meteorological Obs'y.
Nikolaiev	30.16	766.1	30.23	767.9	53.2	11.8	50	sw.	9	4	.....	0	0	.....	.....	0	0	.....	Capt. Kurdakow.
Nikolaievsk, on the Amoor	30.13	765.4	30.22	767.6	11.1	—11.6	73	calm	0	0	.....	.....	0	.....	.....	0	0	.....	Lieut. Iwanow.
Pekin, China	30.00	762.0	30.14	765.6	41.5	5.3	39	se.	9	4	.....	3 cs	0	.....	.....	0	0	.....	Physical Observatory
St. Petersburg	29.85	758.2	29.87	758.6	32.9	0.5	89	w.	4	2	.....	.....	10 n	.....	.....	0	0	.....	Central Physical Obs
Tashkend, Laboratory	28.74	730.1	30.41	772.5	32.4	0.2	76	nw.	13	6	.....	.....	10	.....	.....	0.024	0.6	heavy cl'ds.	Teich, A. M.
Tiflis	28.93	734.7	30.42	772.6	35.8	2.1	41	nw.	45	20	.....	3 cs	0	.....	.....	0	0	light clouds	Physical Observatory
Vladivostok	30.02	762.4	30.08	764.1	26.1	— 3.3	50	calm	0	0	.....	0	0	.....	.....	0	0	.....	
Warsaw	29.60	751.7	30.01	762.3	59.2	15.1	49	ssw.	7	3	.....	0	0	.....	.....	.....	.....	.....	Astronomical Obs'y
Wilna	29.56	750.9	29.98	761.6	50.0	10.0	51	sw.	2	1	.....	.....	1	.....	.....	0	0	light clouds	Berg, Assistant.
Yeniseisk	29.79	756.7	30.09	764.2	36.5	2.5	59	e.	7	3	.....	.....	4	.....	.....	0	0	.....	M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	29.89	759.2	30.00	761.9	59.9	15.5	76	se.	5.1	2.3	.....	.....	2	.....	.....	0	0	clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	29.85	758.2	29.91	759.7	68.0	20.0	49	W.	2.0	0.9	.....	3	4	W.	.....	0	0	cloudy	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	26.98	685.2	29.91	759.6	58.5	14.7	48	s.	2.0	0.9	.....	0	3	.....	.....	0	0	lightly cl'dy	Domingo Martin.
Madrid, Royal Obs'y	27.72	704.2	29.93	760.3	59.7	15.4	53	sw.	9.4	4.2	.....	0	3	.....	.....	0	0	cloudy	The Staff.
Murcia, Met. Obs'y	29.83	757.7	29.98	761.4	70.0	21.1	53	sw.	7.4	3.3	.....	0	3	.....	.....	inap.	inap.	clouds	Olayo Diaz, Director.
Santiago, Met. Obs'y	28.94	735.1	29.83	757.7	60.1	15.6	68	calm	0	0	.....	.....	10	.....	.....	0	0	covered	R. Gil Vallanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I	30.06	763.5	30.13	765.2	66.6	19.2	90	calm	0	0	.....	0	0	.....	.....	0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.88	759.0	29.94	760.4	80.7	27.1	71	s.	4.6	2.1	.....	0	1 ks	.....	.....	0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.97	761.1	30.06	763.6	64.0	17.8	63	sw.	2.8	1.3	.....	0	8	.....	w.	0.031	0.8	.....	Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	30.00	761.9	30.09	764.2	74.1	23.4	73	n.	12.1	5.4	.....	8 s	3 kn	ne.	ne.	0	0	d. clouds	Manuel Maeu.
Tuguegarao, Philippine Id's	29.80	756.9	29.93	760.2	77.4	25.2	77	nnw.	9.4	4.2	.....	0	1 k	.....	n.	0	0	clear	José L. Yraetorza.
SWEDISH																			
Haparanda	29.67	753.6	29.71	754.6	20.8	— 6.2	90	se.	.....	.....	2	.....	10	.....	.....	0.185	4.7	.....	
Umea	29.58	751.3	29.63	752.6	32.7	0.4	92	se.	.....	.....	2	.....	10	.....	.....	0	0	.....	
Hernosand	29.52	749.9	29.58	751.2	35.8	2.1	87	ssw.	.....	.....	2	.....	10	.....	.....	0	0	.....	
Stockholm	29.56	750.9	29.74	755.4	48.2	9.0	73	wsw.	.....	.....	2	.....	5	.....	.....	0	0	.....	
Wisby	29.78	756.4	29.84	757.9	43.5	6.4	86	wsw.	.....	.....	2	.....	0	.....	.....	0	0	.....	
Sub-series.																			
Upsala	29.60	751.9	29.69	754.1	42.6	5.9	87	sw.	10.7	4.8	.....	.....	10	.....	.....	0	0	foggy	S. G. Fineman.
SWISS.																			
Geneva	28.55	725.2	29.96	760.9	61.5	16.4	41	n.	.....	.....	1	.....	.....	.....	.....	0	0	clear	The Observatory

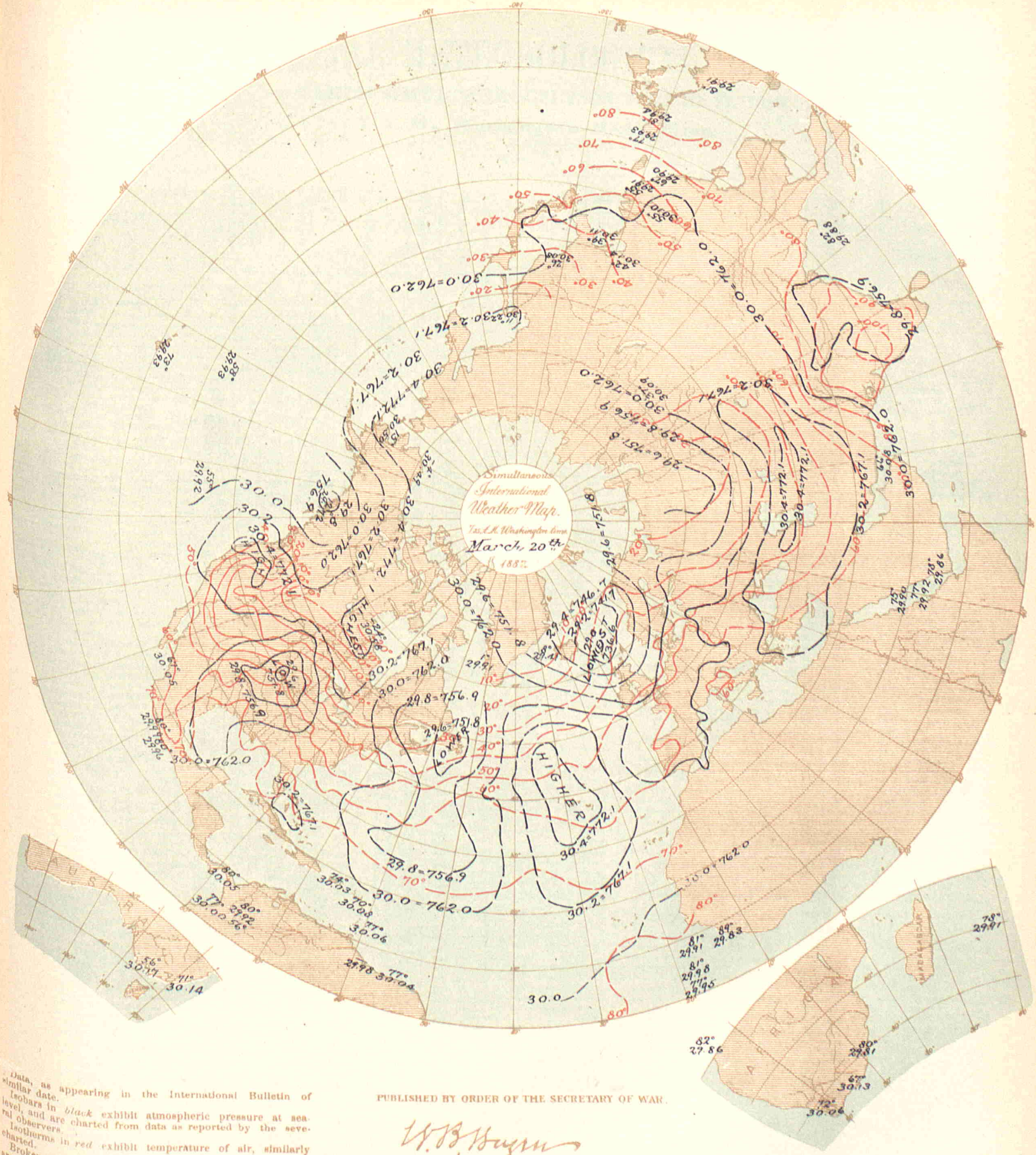
STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
TURKISH.																			
Constantinople	.....	.....	30.24	768.0	58.8	14.9	22	ese.	4	2.0	.....	.....	3	.....	sw.	0	0	.....	The Observatory.
Valona	.....	.....	30.19	766.7	65.5	18.6	.....	sw.	.....	.....	1	.....	5	.....	.....	0	0	cloudy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	30.21	767.4	63.9	17.7	67	n.	.....	.....	1	0	0	.....	.....	0	0	.....	Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	30.03	762.7	30.12	765.0	39.5	4.2	79	calm	0	0	.....	2 c	sk.	.....	.....	0	0	clear	J. O. Barnes.
Alpena, Michigan	29.49	749.0	30.19	766.8	26	— 3.3	88	n.	4	1.8	.....	10 cs	0	.....	.....	0	0	cloudy	Jas. J. Fitzgerald.
Atlanta, Georgia	28.89	733.8	30.10	764.5	63.5	17.5	92	sw.	8	3.6	.....	.....	10 s	.....	calm	0	0	cloudy	H. Hall.
Atlantic City, New Jersey	30.13	765.3	30.14	765.5	41.1	5.1	82	w.	2	0.9	.....	.....	10 s	.....	.....	0	0	cloudy	Jas. M. Watson.
Augusta, Georgia	29.89	759.2	30.09	764.3	60.4	15.8	87	calm	0	0	.....	0	0	.....	.....	0	0	clear	John Healy.
Baltimore, Maryland	30.10	764.5	30.16	766.1	47	8.3	89	calm	0	0	.....	.....	10s;fg	.....	.....	0.02	0.5	cloudy	Robert Seyboth.
Barnegat, New Jersey	30.10	764.5	30.12	765.0	39.8	4.3	82	nw.	3	1.3	.....	.....	10 s	.....	.....	0	0	cloudy	Chas. F. Merritt.
Bismarck, Dakota	28.02	711.7	29.94	760.5	14	—10.0	83	nw.	30	13.4	.....	.....	10 n	.....	.....	0.12	3.0	light snow	Cyrus Cramer.
Boise City, Idaho	27.57	700.3	30.49	774.4	17	— 8.3	91	w.	4	1.8	.....	0	4 s	.....	w.	0	0	fair	B. E. Light.
Boston, Massachusetts	29.87	758.7	30.03	762.7	39.5	4.2	59	w.	5	2.2	.....	0	hz.	.....	.....	0	0	clear	O. B. Cole.
Brownsville, Texas	29 87	758.7	29.92	760.0	74	23.3	90	se.	12	5.4	.....	0	0	.....	.....	0	0	clear	J. C. Galloway.
Buffalo, New York	29 38	746.2	30.17	766.3	35.4	1.9	79	s.	2	0.9	.....	8 ck;cs	sk.	sw.	.....	0	0	cloudy	Wm. Finn.
Burlington, Vermont	29.73	755.1	30.04	763.0	34.3	1.3	71	calm	0	0	.....	0	0	.....	.....	inap.	inap.	clear	G. O. Schaeffer.
Cairo, Illinois	29.45	748.0	29.87	758.7	59.6	15.3	89	s.	4	1.8	.....	10 ck	0	sw.	.....	0.20	5.1	cloudy	W. H. Ray.
Campo, California	27.52	699.0	30.13	765.3	37.6	3.1	72	e.	1	0.4	.....	0	0	.....	.....	0	0	clear	W. H. Clendenon.
Camp Thomas, Arizona	27.25	692.1	30.03	762.7	40.5	4.7	84	w.	.....	.....	2	0	0	.....	.....	0	0	clear	J. T. Fitzgerald.
Cape Henry, Virginia	30.12	765.0	30.14	765.5	46	7.8	83	e.	10	4.5	.....	4 ck	6 s	nw.	sw.	0.10	2.5	cloudy	J. E. Lanouette.
Cape May, New Jersey	30.12	765.0	30.15	765.8	44	6.7	83	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	W. Bolten.
Castroville, Texas	29.07	738.4	29.90	759.4	69	20.6	90	se.	6	2.7	.....	.....	10 s	.....	s.	0	0	cloudy	T. Jones.
Cedar Keys, Florida	30.13	765.3	30.15	765.8	69	20.6	90	calm	0	0	.....	.....	10 ks	.....	sw.	0	0	cloudy	F. W. Mixer.
Champaign, Illinois	28.97	735.8	29.83	757.7	47.8	8.8	93	se.	16	7.2	.....	.....	10 n	.....	se.	0.43	10.9	light rain	L. A. Welsh.
Charleston, S. Carolina	29.99	761.7	30.05	763.3	65	18.3	90	sw.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.19	741.4	30.07	763.8	56.0	13.3	93	ne.	6	2.7	.....	.....	fg.	.....	.....	0	0	dense fog	D. O. Donoghue.
Chattanooga, Tennessee	29.20	741.7	30.05	763.3	66.0	18.9	84	sw.	7	3.1	.....	0	2 k	.....	sw.	0	0	clear	B. L. Goulding.
Cheyenne, Wyoming	23.84	605.5	30.02	762.5	19.2	— 7.1	47	nw.	16	7.2	.....	0	0	.....	.....	0	0	clear	E. McGovern.
Chicago, Illinois	29.20	741.7	29.94	760.5	40.8	4.9	93	e.	10	4.5	.....	.....	10 n	.....	.....	0.03	0.8	light rain	J. Mitchell.
Chincoteague, Virginia	30.11	764.8	30.13	765.3	44	6.7	100	nw.	1	0.4	.....	.....	10 s	.....	nw.	0.05	1.3	cloudy	F. C. Pratz.
Cincinnati, Ohio	29.29	744.0	29.98	761.5	51	10.6	80	e.	8	3.6	.....	.....	10 n	.....	.....	0.42	10.7	light rain	R. B. Watkins.
Cleveland, Ohio	29.33	745.0	30.11	764.8	42.6	5.9	67	e.	2	0.9	.....	.....	10 s	.....	.....	0	0	cloudy	J. B. Newlin.
Coleman City, Texas	28.10	713.7	29.95	760.7	60	15.6	93	w.	3	1.3	.....	0	8 s	.....	.....	0.07	1.8	cloudy	L. Dorman.
Columbus, Ohio	29.13	739.9	30.02	762.5	47	8.3	86	e.	7	3.1	.....	.....	10 n	.....	.....	0.06	1.5	light rain	D. Cuthbertson.
Concho, Texas	27.95	709.9	29.92	760.0	60	15.6	100	calm	0	0	.....	.....	10 n	.....	w.	0.50	12.7	heavy rain	W. W. McConihe.
Davenport, Iowa	29.11	739.4	29.80	756.9	44	6.7	83	e.	9	4.0	.....	.....	10 s	.....	e.	0.41	10.4	cloudy	R. R. Martin.
Dayton, Washington T'y	28.52	724.4	30.33	770.4	27.4	— 2.6	82	sw.	8	3.6	.....	0	0	.....	.....	0.04	1.0	clear	H. Clifford.
Deadwood, Dakota	25.21	640.3	30.05	763.3	15	— 9.4	87	nw.	5	2.2	.....	.....	10 s	.....	.....	0.01	0.3	cloudy	G. W. Scott.
Decatur, Texas	.....	.....	.....	.....	67	19.4	68	w.	12	5.4	.....	.....	10 ks	.....	sw.	0	0	cloudy	D. J. Carr.
Delaware Breakwater, Del.	30.12	765.0	30.14	765.5	42	5.6	92	s.	10	4.5	.....	.....	10 s	.....	.....	0	0	cloudy	A. Schneider.
Denison, Texas	29.03	737.3	29.86	758.4	69.2	20.7	90	s.	14	6.3	.....	.....	10 s	.....	s.	0	0	cloudy	J. McGlone.
Denver, Colorado	24.57	624.1	30.01	762.2	28.5	— 1.9	75	se.	4	1.8	.....	.....	9 s	.....	w.	0	0	cloudy	F. M. Neal.
Des Moines, Iowa	28.69	728.7	29.65	753.1	44	6.7	93	se.	12	5.4	.....	.....	10 n	.....	se.	0.11	2.8	light rain	F. W. Conrad.
Detroit, Michigan	29.37	746.0	30.12	765.0	42.0	5.6	74	ne.	9	4.0	.....	.....	10 s	.....	calm	0	0	cloudy	C. F. R. Wappenhans.
Dodge City, Kansas	27.10	688.3	29.83	757.7	50	10.0	74	nw.	17	7.6	.....	0	0	.....	.....	0	0	clear	E. A. Thomas.
Dubuque, Iowa	29.05	737.9	29.80	756.9	38.2	3.4	82	e.	8	3.6	.....	.....	10 s	.....	se.	0.01	0.3	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.38	746.2	30.12	765.0	30	— 1.1	88	ne.	26	11.6	.....	.....	10 s	.....	ne.	0.01	0.3	cloudy	N. B. Conger.
Eagle Pass, Texas	29.08	738.6	29.90	759.4	67.0	19.4	90	ne.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	F. Belford.
Eagle Rock, Idaho	25.39	644.9	30.26	768.6	3	—16.1	79	sw.	12	5.4	.....	0	0	.....	.....	0	0	clear	J. M. Clifford.
Eastport, Maine	29.77	756.1	29.84	757.9	32	0.0	76	sw.	6	2.7	.....	0	0	.....	.....	0.12	3.0	clear	J. H. Melton.
El Paso, Texas	26.25	666.7	30.05	763.3	45	7.2	63	nw.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.39	746.5	30.16	766.1	40	4.4	89	calm	0	0	.....	.....	10 k	.....	sw.	0	0	cloudy	R. H. Paxton.
Escanaba, Michigan	29.48	748.8	30.18	766.6	28	— 2.2	88	ne.	7	3.1	.....	.....	10 s	.....	ne.	0	0	cloudy	C. Dill.
Florence, Arizona	28.56	725.4	30.13	765.3	36.6	2.6	70	sw.	4	1.8	.....	0	0	.....	.....	0	0	clear	R. R. Herman.
Fort Apache, Arizona	25.01	635.2	30.03	762.7	30	— 1.1	61	ne.	6	2.7	.....	0	0	.....	.....	0	0	clear	W. C. Barnes.
Fort Assinnaboine, Montana	27.30	693.4	30.31	769.9	— 5	—20.6	65	sw.	9	4.0	.....	0	8 s	.....	sw.	0.01	0.3	cloudy	B. O. Lenoir.
Fort Bennett, Dakota	28.24	717.3	29.94	760.5	19	— 7.2	100	nw.	32	14.3	.....	.....	10 n	.....	.....	0.27	6.9	heavy snow	T. Gibson.
Fort Benton, Montana	27.36	694.9	30.34	770.6	—12	—24.4	54	calm	0	0	.....	0	0	.....	.....	0.01	0.3	clear	S. Wheaton.
Fort Buford, Dakota	28.05	712.5	30.19	766.8	3	—16.1	76	w.	22	9.8	.....	.....	10 s	.....	calm	0.09	2.3	cloudy	A. H. Bell.
Fort Custer, Montana	26.91	683.5	30.24	768.1	6	—14.4	100	n.	3	1.3	.....	0	2 s	.....	calm	0	0	clear	V. Verge.
Fort Davis, Texas	25.09	637.3	29.97	761.2	56	13.3	67	sw.	12	5.4	.....	.....	10 ks	.....	sw.	0	0	cloudy	J. Williams.
Fort Elliott, Texas	26.96	684.8	29.79	756.7	60	15.6	78	sw.	28	12.5	.....	.....	10 s	.....	sw.	0	0	cloudy	W. J. Cundall.
Fort Gibson, Indian T'y	29.16	740.7	29.75	755.6	66.5	19.2	90	s.	16	7.2	.....	.....	10 s	.....	s.	0.58	14.7	cloudy	J. B. Campbell.
Fort Grant, Arizona	25.27	641.8	30.10	764.5	37	2.8	75	sw.	6	2.7	.....	0	0	.....	.....	0	0	clear	T. J. Macgowan.
Fort Griffin, Texas	28.56	725.4	29.90	759.4	63	17.2	78	calm	0	0	.....	.....	10 n	.....	sw.	0.35	8.9	light rain	G. H. Hayne.
Fort Keogh, Montana	27.61	701.3	30.26	768.6	4	—15.6	76	nw.	8	3.6	.....	0	2 s	.....	.....	0.10	2.5	clear	W. B. Stockman.
Fort Macon, North Carolina	30.08	764.0	30.09	764.3	51	10.6	93	ne.	16	7.2	.....	.....	10 s	.....	calm	0	0	cloudy	L. Leonardy.
Fort McKavett, Texas	27.70	703.6	30.02	762.5	63.2	17.3	87	e.	2	0.9	.....	2 ck	5 ks	.....	.....	inap.	inap.	fair	J. E. Thatcher.
Fort Missoula, Montana	26.81	681.0	30.19	766.8	8	—13.3	80	nw.	1	0.4	.....	0	0	.....	.....	0.05	1.3	clear	J. H. Jones.
Fort St. Michaels, Alaska	30.47	773.9	30.50	774.7	15	— 9.4	82	n.	5	2.2	.....	0	8 s	.....	w.	0	0	fair	A. P. Leavitt.
Fort Shaw, Montana	26.42	671.1	30.22	767.6	—17	—27.2	100	sw.	1	0.4	.....	0	0	.....	.....	0.02	0.5	clear	A. L. Mathews.
Fort Sill, Indian Territory	28.53	724.6	29.82	757.4	65.8	18.8	63	s.	19	8.5	.....	.....	10 s	.....	sw.	0	0	cloudy	T. Cleary.
Fort Stevenson, Dakota	28.05	712.5	30.03	762.7	11	—11.7	76	nw.	28	12.5	.....	.....	10 n	.....	calm	0.10	2.5	light snow	W. Burrows.
Fort Verde, Arizona	.....	.....	.....	.....	36	2.2	72	n.	.....	.....	2	0	0	.....	.....	0	0	clear	D. Brooks.
Fort Washakie, Wyoming	24.39	619.5	.....	.....	12.4	—10.9	70	w.	8	3.6	.....	0	0	.....	.....	0	0	clear	T. M. Ambler.
Fredericksburg, Texas	28.16	715.3	29.92	760.0	67	19.4	90	sw.	7	3.1	.....	.....	10 ks	.....	sw.	0	0	cloudy	H. S. Miles.
Galveston, Texas	29.92	760.0	29.96	761.0	71.5	21.9	85	s.	13	5.8	.....	0	hz.	.....	.....	0	0	clear	E. O'C. MacInerney.
Grand Haven, Michigan	29.32	744.7	30.02	762.5	41.0	5.0	48	e.	14	6.3	.....	.....	10 s	.....	.....	0	0	cloudy	W. A. Reid.
Hatteras, North Carolina	30.09	764.3	30.11	764.8	47	8.3	100	ne.	24	10.7	.....	.....	10 n	.....	ne.	0.07	1.8	light rain	R. M. Crawford.
Helena, Montana	25.86	656.8	30.22	767.6	4	—15.6	52	w.	4	1.8	.....	0	0	.....	.....	c.07	1.8	clear	N. C. Smith.
Henrietta, Texas	28.86	733.0	29.90	759.4	64	17.8	90	s.	18	8.0	.....	.....	10 n	.....	.....	0.22	5.6	light rain	J. W. Byram.
Huron, Dakota	28.26	717.8	29.74	755.4	38	3.3	89	e.	8	3.6	.....	.....	10 n	.....	.....	0.07	1.8	light rain	S. W. Glenn.
Indianapolis, Indiana	29.05	737.9	29.89	759.2	48	8.9	86	e.	8	3.6	.....	.....	10 s	.....	e.	0.20	5.1	cloudy	O. Schutze.
Indianola, Texas	29.90	759.4	29.94	760.5	71.2	21.8	90	s.	10	4.5	.....	0	4 k	.....	s.	0	0	fair	I. A. Reed.
Jacksboro, Texas	28.67	728.2	29.88	758.9	63	17.2	84	sw.	8	3.6	.....	.....	10 ks	.....	s.	0.04	1.0	cloudy	J. P. Sherry.
Jacksonville, Florida	30.08	764.0	30.13	765.3	70	21.1	84	sw.	7	3.1	.....	.....	10 s	.....	sw.	0	0	cloudy	J. W. Smith.
Keokuk, Iowa	29.01	736.8	29.70	754.4	48.0	8.9	96	ne.	8	3.6	.....	.....	10 s	.....	ne.	0.20	5.1	heavy rain	F. Z. Gosewisch
Key West, Florida	30.13	765.3	30.15	765.8	72.0	22.2	82	e.	4	1.8	.....	0	2 s;k	.....	e.	0	0	clear	L. M. Melbourne.
Kittyhawk, North Carolina	30.17	766.3	30.19	766.8	45	7.2	93	ne.	23	10.3	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	E. A. Beals.
Knoxville, Tennessee	28.98	736.1	30.04	763.0	53	11.7	98	calm	0	0	.....	.....	fg.	.....	.....	inap.	inap.	dense fog	J. A. Cody.
La Crosse, Wisconsin	29.02	737.1	29.84	757.9	41	5.0	92	e.	12	5.4	.....	.....	10 s	.....	e.	0.07	1.8	cloudy	S. C. Emery.
La Mesilla, New Mexico	26.09	662.7	30.04	763.0	42.3	5.7	74	sw.	2	0.9	.....	0	0	.....	.....	0	0	clear	N. D. Lane.
Leavenworth, Kansas	28.67	728.2	29.61	752.1	60	15.6	87	s.	14	6.3	.....	.....	10s;fg	.....	s.	0.24	6.1	cloudy	A. W. Browne.
Lewiston, Idaho	29.46	748.3	30.32	770.1	27.3	— 2.6	56	ne	2	0.9	.....	0	0	.....	.....	0.01	0.3	clear	W. Blake.
Little Rock, Arkansas	29.55	750.6	29.88	758.9	70	21.1	84	sw.	14	6.3	.....	.....	10 s	.....	sw.	0	0	cloudy	M. F. Burrows.
Los Angeles, California	29.78	756.4	30.18	766.6	44.2	6.8	76	e.	5	2.2	.....	0	2 s	.....	calm	0.04	1.0	clear	E. F. Kubel.
Louisville, Kentucky	29.30	744.2	29.89	759.2	53	11.7	93	e.	5	2.2	.....	.....	10 s	.....	.....	1.46	37.1	threatening	H. C. Smith.
Lynchburg, Virginia	29.45	748.0	30.17	766.3	47.2	8.4	86	n.	4	1.8	.....	.....	10 s	.....	w.	0.31	7.9	cloudy	T. H. Breen.
Madison, Wisconsin	28.88	733.5	29.95	760.7	37	2.8	72	e.	15	6.7	.....	.....	10 s	.....	e.	0	0	cloudy	C. A. Shaw.
Marquette, Michigan	29.43	747.5	30.20	767.1	28	— 2.2	64	e.	12	5.4	.....	4 k	2 s	ne.	ne.	0	0	fair	I. Gilligan.
Mason, Texas	28.28	718.3	29.97	761.2	63	17.2	90	nw.	3	1.3	.....	.....	10 s	.....	nw.	0	0	cloudy	A. M. Wilson.
Memphis, Tennessee	29.58	751.3	29.92	760.0	68	20.0	78	sw.	9	4.0	.....	2 cs	1 s	w.	sw.	0	0	clear	D. T. Flannery.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–01	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Milwaukee, Wisconsin	29.20	741.7	29.99	761.7	37	2.8	89	ne.	18	8.0	.....	.....	10 s	.....	.....	0	0	threatening	W. Line.
Mobile, Alabama	30.06	763.5	30.10	764.5	67	19.4	97	calm	0	0	.....	2 cs	4 ks	.....	sw.	0	0	fair	J. D. Paxton.
Montgomery, Alabama	29.86	758.4	30.10	764.5	67	19.4	87	sw.	3	1.3	.....	0	8 k	.....	sw.	0	0	cloudy	J. B. McLaughlin.
Moorhead, Minnesota	28.80	731.5	29.88	758.9	20	— 6.7	84	e.	24	10.7	.....	.....	10 s	.....	.....	0.06	1.5	cloudy	H. Bessant.
Morgantown, W. Virginia	29.02	737.1	30.08	764.0	58.5	14.7	72	ne.	4	1.8	.....	.....	10 s	.....	.....	0.04	1.0	cloudy	J. Sprigg, jr.
Mt. Washington, N. H.	23.39	594.1	29.91	759.7	11.0	—11.7	91	nw.	65	29.1	.....	.....	fg.	.....	nw.	0	0	light fog	J. G. Linsley.
Nashville, Tennessee	29.36	745.7	29.92	760.0	56.5	13.6	93	calm	0	0	.....	8 ck	fg.	w.	.....	0.12	3.0	cloudy	L. A. Jesunofsky.
New Haven, Connecticut	29.97	761.2	30.09	764.3	37	2.8	72	n.	3	1.3	.....	6 cs	sk.	w.	.....	0	0	fair	J. H. Sherman.
New London, Connecticut	30.04	763.0	30.08	764.0	43	6.1	68	nw.	8	3.6	.....	4 ck	0	nw.	.....	0	0	fair	J. G. Lynch.
New Orleans, Louisiana	30.01	762.2	30.07	763.8	68.0	20.0	90	se.	3	1.3	.....	hz.	2 s; hz	.....	se.	0	0	dense haze.	A. J. Armstrong.
Newport, Rhode Island	30.00	762.0	30.05	763.3	39.3	4.1	64	nw.	11	4.9	.....	2 c	0	calm	.....	0	0	clear	W. McGillivray.
New River, N. Carolina	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	C. C. Corbin.
New Shoreham, Rhode I'd.	30.03	762.7	30.06	763.5	39.0	3.9	73	nw.	13	5.8	.....	2 ck	0	nw.	.....	0	0	clear	W. Davis.
New York, New York	29.95	760.7	30.13	765.3	43	6.1	68	nw.	3	1.3	.....	4 cs	4 s	nw.	nw.	0	0	cloudy	E. B. Garriott.
Norfolk, Virginia	30.09	764.3	30.12	765.0	46	7.8	93	se.	4	1.8	.....	3 ck	7 ks	nw.	nw.	0.04	1.0	cloudy	J. T. Elker.
North Platte, Nebraska	26.82	681.2	29.88	758.9	31.6	— 0.2	76	nw.	28	12.5	.....	.....	10 s	.....	.....	0	0	cloudy	E. F. Brady.
Olympia, Washington T'y	30.27	768.8	30.31	769.9	33.5	0.8	83	s.	6	2.7	.....	.....	10 s	.....	calm	0.06	1.5	cloudy	J. Dascomb.
Omaha, Nebraska	28.31	719.1	29.56	750.8	49.0	9.4	90	se.	6	2.7	.....	.....	10n; fg	.....	.....	0.09	2.3	light rain	A. Pollak.
Ooglaamie, Pt. Barrow, Alas.	30.47	773.9	30.49	774.4	— 4.2	—20 1	76	nw.	16	7.2	.....	0	0	.....	.....	0.04	1.0	clear	P. H. Ray.
Oswego, New York	29.78	756.4	30.12	765.0	37.2	2.9	83	w.	5	2.2	.....	2 c	0	.....	.....	0	0	clear	S. W. Beall.
Palestine, Texas	29.39	746.5	29.96	761.0	72	22.2	84	s.	12	5.4	.....	0	8 ks	.....	.....	0	0	cloudy	L. M. Pindell.
Pensacola, Florida	30.07	763.8	30.10	764.5	71.0	21.7	94	sw.	5	2.2	.....	0	7 ks	.....	s.	0	0	fair	M. McGauran.
Philadelphia, Pa.	30.06	763.5	30.16	766.1	47	8.3	68	w.	2	0.9	.....	.....	10s; sk	.....	w.	0	0	cloudy	T. F. Townsend.
Pike's Peak, Colorado	17.32	439.9	29.91	759.7	— 3	—19.4	100	sw.	42	18.8	.....	.....	10 s	.....	sw.	0	0	cloudy	L. M. Dey.
Pioche, Nevada	24.15	613.4	30.29	769.4	11	—11.7	66	n.	8	3.6	.....	0	0	.....	.....	0.08	2.0	clear	C. K. Kitchel.
Pitisburg, Pennsylvania	29.25	742.9	30.10	764.5	46.0	7.8	68	ne.	7	3.1	.....	.....	10 s	.....	.....	0	0	cloudy	J. H. Bryce.
Port Eads, Louisiana	30.08	764.0	30.09	764.3	68.1	20.1	97	s.	8	3.6	.....	0	3 k	.....	s.	inap.	inap.	clear	H. G. Christian.
Port Huron, Michigan	29.42	747.3	30.14	765.5	35.2	1.8	85	ne.	9	4.0	.....	10 cs	0	.....	.....	0	0	cloudy	W. O. Bailey.
Portland, Maine	29.88	758.9	29.93	760.2	34.0	1.1	72	sw.	9	4.0	.....	0	0	.....	.....	0.01	0.3	clear	D. C. Murphy.
Portland, Oregon	30.30	769.6	30.37	771.4	35.0	1.7	79	s.	8	3.6	.....	.....	10 s	.....	s.	0.06	1.5	cloudy	M. L. Hearne.
Portsmouth, N. Carolina	.....	.....	.....	.....	50	10.0	77	ne.	10	4.5	.....	.....	10 ks	.....	ne.	0	0	cloudy	F. P. Chaffee.
Prescott, Arizona	24.75	628.6	30.09	764.3	27	— 2.8	70	s.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. McN. Wright.
Provincetown, Mass.	29.99	761.7	30.02	762.5	37	2.8	72	w.	6	2.7	.....	2 cs	0	nw.	.....	0	0	clear	P. T. Jenkins.
Punta Rassa, Florida	30.13	765.3	30.14	765.5	65	18.3	90	e.	5	2.2	.....	0	hz.	.....	.....	0	0	clear	W. J. Evans.
Red Bluff, California	30.00	762.0	30.38	771.6	33.2	0.7	78	nw.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.63	752.6	29.87	758.7	74	23.3	88	se.	8	3.6	.....	0	0	.....	.....	0	0	clear	W. H. Taylor.
Rochester, New York	29.45	748.0	30.15	765.8	34	1.1	79	calm	0	0	.....	4 cs	sk.	w.	.....	0	0	fair	A. T. Sherwood.
Roseburg, Oregon	29.88	758.9	30.44	773.2	33.6	0.9	78	calm	0	0	.....	.....	10 s	.....	.....	0.05	1.3	cloudy	J. J. Nuury.
Sacramento, California	30.24	768.1	30.32	770.1	39.4	4.1	82	nw.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.14	740.1	29.77	756.1	52.7	11.5	94	s.	9	4.0	.....	.....	10s; fg	.....	.....	0.85	21.6	cloudy	J. H. Webber.
St. Paul, Minnesota	28.94	735.1	29.86	758.4	38.0	3.3	82	e.	14	6.3	.....	.....	10 s	.....	e.	0	0	cloudy	O. S. M. Cone.
St. Vincent, Minnesota	29.08	738.6	30.02	762.5	15	— 9.4	100	e.	22	9.8	.....	.....	10 n	.....	calm	0.09	2.3	light snow.	G. Kingsbury.
Salt Lake City, Utah	25.80	655.3	30.32	770.1	20	— 6.7	57	calm	0	0	.....	0	5 s	.....	w.	0.08	2.0	fair	J. Craig.
San Antonio, Texas	29.19	741.4	29.90	759.4	69.0	20.6	90	s.	6	2.7	.....	2 c	2 ks	s.	s.	0	0	fair	E. Lane.
San Diego, California	30.09	764.3	30.15	765.8	48.7	9.3	87	n.	4	1.8	.....	1 k	4 s	.....	.....	0	0	fair	A. C. Dobbins.
Sandusky, Ohio	29.36	745.7	30.08	764.0	42.3	5.7	70	se.	12	5.4	.....	.....	10 s	.....	.....	0	0	cloudy	M. H. Perry.
Sandy Hook, New Jersey	30.10	764.5	30.14	765.5	41.0	5.0	82	nw.	8	3.6	.....	10 k	0	nw.	.....	0	0	cloudy	B. A. Blundon.
San Francisco, California	30.26	768.6	30.32	770.1	42	5.6	65	w.	9	4.0	.....	0	0	.....	.....	0.03	0.8	clear	N. Gorom.
Santa Fé, New Mexico	23.08	586.2	30.06	763.5	32	0.0	47	s.	2	0.9	.....	0	0	.....	.....	c	0	clear	H. N. Jones.
Savannah, Georgia	30.00	762.0	30.08	764.0	69	20.6	78	w.	6	2.7	.....	1 c	0	w.	.....	0	0	clear	H. M. Ford.
Shreveport, Louisiana	29.67	753.6	29.92	760.0	68	20.0	90	s.	2	0.9	.....	3 c	0	.....	.....	0	0	clear	E. N. Meekins.
Silver City, New Mexico	24.25	615.9	30.03	762.7	40	4.4	40	nw.	6	2.7	.....	0	0	.....	.....	0	0	clear.	J. B. Wallace.
Sitka, Alaska	29.65	753.1	29.72	754.9	12	—11.1	61	e.	21	9.4	.....	0	0	.....	.....	0	0	clear	J. J. McLean.
Smithville, North Carolina	30.03	762.7	30.07	763.8	56	13.3	93	ne.	9	4.0	.....	.....	10 s	.....	.....	0	0	cloudy	J. C. Rickli.
Spokane Falls, Wash. Ter.	28.17	715.5	30.30	769.6	23	— 5.0	88	sw.	5	2.2	.....	0	0	.....	.....	0.92	0.5	clear	D. Moore.
Springfield, Illinois	29.05	737.9	29.77	756.1	50	10.0	93	se.	11	4.9	.....	.....	10 n	.....	se.	0.83	21.1	light rain	T. B. Jennings.
Springfield, Massachusetts	29.95	760.7	30.09	764.3	42.6	5.9	65	s.	2	0.9	.....	3 c	0	w.	.....	0	0	clear	T. S. Outram.
Springfield, Mo.	28.26	717.8	29.82	757.4	61	16.1	87	sw.	22	9.8	.....	.....	10 s	.....	sw.	0.70	17.8	cloudy	J. B. Marbury.
Stockton, Texas	26.90	683.2	29.98	761.5	61.0	16.1	67	sw.	8	3.6	.....	.....	10 s	.....	sw.	0	0	cloudy	J. O'Dowd.
Thatcher's Island, Mass.	29.92	760.0	29.98	761.5	40.5	4.7	73	w.	10	4.5	.....	0	0	.....	.....	0	0	clear	G. Liebmann.
Toledo, Ohio	29.34	745.2	30.07	763.8	42.5	5.8	78	e.	8	3.6	.....	.....	10 s	.....	e.	0	0	cloudy	A. Buell.
Tucson, Arizona	27.62	701.5	30.08	764.0	41	5.0	92	s.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. L. Whiteside.
Umatilla, Oregon	30.03	762.7	30.41	772.4	31.2	— 0.4	88	w.	7	3.1	.....	0	1 s	.....	.....	0	0	clear	R. P. Sibley.
Uvalde, Texas	28.91	734.3	29.89	759.2	70	21.1	90	calm	0	0	.....	.....	10 ks	.....	s.	0	0	cloudy	E. C. Imlay.
Vicksburg, Mississippi	29.74	755.4	30.00	762.0	67	19.4	90	s.	8	3.6	.....	4 cs	0	calm	.....	0	0	fair	T. J. Kenan.
Visalia, California	29.89	759.2	30.27	768.8	35.5	1.9	89	nw.	1	0.4	.....	0	0	.....	.....	0.09	2.3	clear	J. T. Cochran.
Washington, D. C.	30.05	763.3	30.17	766.3	44.0	6.7	96	calm	0	0	.....	.....	10s; fg	.....	.....	0	0	cloudy	B. M. Purssell.
West Las Animas, Colorado	25.80	655.3	29.88	758.9	38	3.3	41	nw.	13	5.8	.....	0	0	.....	.....	0	0	clear	J. Grover.
Wickenburg, Arizona	.....	.....	.....	.....	29.5	— 1.4	71	calm	.....	.....	0	0	0	.....	.....	0	0	clear	H. A. Kremp.
Williamsport, Pa.	29.54	750.3	30.17	766.3	38	3.3	75	calm	0	0	.....	.....	10 ks	.....	.....	0	0	cloudy	B. F. Hough.
Wilmington, N. Carolina	30.03	762.7	30.09	764.3	56	13.3	80	ne.	6	2.7	.....	.....	10s; sk	.....	e; calm	0	0	cloudy	S. A. Haney.
Winnemucca, Nevada	25.79	655.1	30.29	769.4	17	— 8.3	70	sw.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. R. Williams.
Yankton, Dakota	28.29	718.6	29.68	753.9	38	3.3	89	n.	8	3.6	.....	.....	10 s	.....	.....	0.03	0.8	cloudy	J. H. Attield.
Yuma, Arizona	29.92	760.0	30.07	763.8	45.0	7.2	76	nw.	1	0.4	.....	0	0	.....	.....	0	0	clear	O. D. Stewart.
Sub-stories.																			
Bogota, U. S. Columbia	22.04	559.8	.....	.....	56.0	13.3	80	calm	0	0	.....	.....	9 s	.....	e.	0.01	0.3	cloudy	Joaquin Gomez.
Bridgetown, Barbados, W.I.	30.05	763.3	30.06	763.5	77	25.0	81	n.	.....	.....	.....	5 k	5 ks	e.	e.	0	0	fair	J. A. Racker.
Buenaventura, U. S. C.	29.98	761.5	30.00	762.0	77	25.0	90	s.	4	1.8	.....	.....	10 ks	.....	s.	0.05	1.3	cloudy	J. I. Plume.
Guadeloupe, W. I.	29.96	761.0	29.98	761.5	70	21.1	90	e.	.....	.....	.....	1 k	0	.....	.....	0	0	clear	B. Bigar.
Havana, Cuba, W. I.	30.12	765.0	30.17	766.3	72	22.2	71	se.	2.4	1.1	.....	0	0	.....	.....	0	0	clear	A. Van Caneghem.
Kingston, Jamaica, W. I.	30.07	763.8	30.08	764.0	70.3	21.3	82	n.	1	0.4	.....	0	0	.....	.....	0	0	fine	Robert Johnston.
Navassa	30.12	765.0	30.20	767.1	75	23.9	72	ne.	12	5.4	.....	5 ck	2 s	e.	ne.	0	0	.....	F. M. Everett.
Paramaribo, S. A.	30.04	763.0	30.04	763.0	77	25.0	91	e.	.....	.....	2	.....	10 n	e.	e.	1.820	46.2	rainy	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.46	748.3	29.92	760.0	80	26.7	90	calm	.....	.....	0	.....	10 s	.....	calm	inap.	inap.	misty	Miss Flora A. Nichols.
Rivas	.....	.....	.....	.....	.....	.....	98	ne.	.....	.....	3	0	1 ks	.....	ne.	0	0	clear	Robert Mason.
Santiago de Cuba, W. I.	30.08	764.0	30.10	764.5	72	22.2	67	calm	0	0	.....	0	0	.....	.....	0	0	clear	
York Factory, B. A.	30.53	775.4	30.58	776.7	—24.0	—31.1	.....	n.	20	8.9	.....	0	0	.....	.....	0.03	0.8	clear	W. Wood.

STATIONS AND VESSELS.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
BRITISH NAVAL.																		
H. M. S. Agincourt, N. 39° 11′, E. 9° 06′	29.94	760.5	58	14.4	93	ene.			1		2	ene.						d. clouds.
H. M. S. Alert, S. 5° 24′, E. 53° 18′	29.89	758.9	86.5	30.3	80	e.			1		7							d. clouds.
H. M. S. Alexandra, Malta, Mediterranean	30.17	766.3	68	20.0	62	ssw.			1–2									blue sky.
H. M. S. Bacchante, Alexandria, Egypt	30.20	767.1	66	18.9	84	n.			2		3	nnw.						d. clouds.
H. M. S. Boadicea, S. 34° 11′, E. 18° 26′	30.05	763.3	72	22.2	56	ese.			2–3		5	e.						d. clouds.
H. M. S. Comus, Labuan Island, Borneo	29.91	759.7	81	27.2	100	nw.			1		3							d. clouds.
H. M. S. Daring, N. 21° 04′ E. 114° 31′	29.90	759.4	73	22.8		sse.			2		0							blue sky.
H. M. S. Diamond, S. 34° 21′, E. 107° 18′	29.93	760.2	65	18.3	89	n.			1		0					1	ese.	blue sky.
H. M. S. Dido, N. 16° 00′, W. 61° 45′	30.05	763.3	74	23.3		calm			0		1	ne.						blue sky.
H. M. Dock-Yard, Bermuda, W. I.	29.90	759.4	63	17.2	78	wnw.			4–5		3	wnw.						d. clouds.
H. M. S. Dwarf, S. 34° 54′, W. 56° 10′	30.11	764.8	61.5	16.4	97	s.			4–5		9					3–4	s.	d. clouds.
H. M. S. Eclipse, S. 15° 55′, E. 44° 58′	29.82	757.4	81	27.2		nw.			3		3					2	nne.	d. clouds.
H. M. S. Euryalus, N. 20° 45′ E. 38° 15′	29.90	759.4	75	23.9	81	nw.			4		0					2	nnw.	blue sky.
H. M. S. Fawn, N. 15° 04′, E. 42° 14′	29.86	758.4	77.5	25.3	71	nw.			3		9	ne.				2	nw.	misty.
H. M. S. Flying Fish, N. 34° 41′, E. 135° 12′	29.98	761.5	47	8.3	92	ene.			1		3	ne.				2	e.	misty.
H. M. S. Gannet, S. 33° 35′, W. 78° 45′	30.09	764.3	67.5	19.7	66	var.			1–6		0					1	e.	squally.
H. M. S. Garnet, S. 43° 00′ W. 61° 00′	30.26	768.6	52	11.1	66	e.			3		4					3	s.	d. clouds.
H. M. S. *Inconstant*, S. 20° 30′, E. 80° 00′	30.00	762.0	78	25.6	90	ese.			3		8	ese.				5	se.	d. clouds.
H. M. S. Iron Duke, N. 22° 16′, E. 114° 10′	29.91	759.7	69	20.6	84	n.			1		4	n.				3	ese.	showery.
H. M. S. Lark, S. 33° 57′, E. 173° 42′	30.08	764.0	68.3	20.2		sw.			4		0							d. clouds.
H. M. S. Liffey, Coquimbo, Chili	29.90	759.4	60	15.6		n.			1		8					3	e.	blue sky.
H. M. S. Magpie, N. 26° 13′, E. 120° 03′	29.91	759.7	54.7	12.6	93	n.			1		10							d. clouds.
H. M. S. Malabar, N. 17° 40′, E. 39° 59′	29.92	760.0	77	25.0	90	nnw.			2		2	n.				1	se.	misty.
H. M. S. Orontes, N. 16° 31′ E. 41° 00′	29.91	759.7	77.5	25.3	83	nnw.			3		9					1	nnw	d. clouds.
H. M. S. Rambler, Congo River, Lower Guinea, Africa	29.86	758.4	82	27.8		sw.			3		4					3	nnw.	d. clouds.
H. M. S. Ready, Muscat, Arabia	30.08	764.0	66.1	18.9		wnw.			1		8							d. clouds.
H. M. S. Rocket, Vancouver Id., B. C.	30.18	766.6	35	1.7	80	wnw.			1		5							drizzling.
H. M. S. Sea Gull, S. 5° 32′, E. 39° 42′	29.24	742.7	83	28.3	74	nne.			1		3	nne.						d. clouds.
H. M. S. Seraphis, N. 42° 00′ W. 9° 14′	29.87	758.7	60	15.6	82	sse.			3		7	sse.						d. clouds.
H. M. S. Tenedos, N. 21° 27′ W. 71° 09′	30.12	765.0	74	23.3	74	ne.			1		1					6	wnw.	d. clouds.
H. M. S. Thalia, S. 20° 17′, W. 30° 31′	30.06	763.5	80.5	26.9		ene.			4		4					2	nnw.	blue sky.
H. M. S. Triumph, Juan Fernandez Island, S. A.	30.09	764.3	65	18.3	94	var.			5–6		7	ssw.				2	ene.	d. clouds.
H. M. S. Woodlark, Bombay, India	29.80	756.9	85.5	29.7	58	nw.			4–5		0							squally.
PORTUGUESE NAVAL.																		misty.
Quanza, Santago, Cape Verde Islands	30.03	762.8	78.8	26.0	55	ne.			4		0					3	ne.	blue sky.
UNITED STATES NAVAL.																		
Navy Yard, Pensacola, Fla	30.07	763.8	72	22.2	90	ssw.	2	0.9			8		sw.	0	0			cloudy.
Navy Yard, Portsmouth, N. H.	29.98	761.5	36	2.2	61	W.	19	8.5			0			0	0			clear.
Naval Hospital, Yokohama, Japan	29.69	754.1	45	7.2	36	n.			2		0			0	0			clear.
Adams, Callao, Peru	29.71	754.6	68	20.0	95	sse.			1		5			0.18	4.6			fair.
Alaska, Valparaiso, Chili	29.85	758.2	59	15.0	88	calm			0		10					gr'd		cloudy.
Alert, N. 16° 48′, E. 119° 39′*	29.89	759.2	80	26.7	78	nnw.			3		2			0	0	sm'h		hazy.
Alliance, N. 17° 47′, W. 75° 50′	30.02	762.5	77	25.0	82	w.			2		2		calm	0	0	sm'h		clear.
Ashuelot, N. 36° 55′, E. 123° 13′	30.11	764.8	39	3.9	64	ne.			3		2			0	0	sm'h		fair.
Brooklyn, S. 35° 31′ W. 54° 12′	30.04	763.0	57	13.9	75	s.	33	14.8			8		calm			sm'h		fair.
Colorado, New York, N. Y.	30.11	764.8	44	6.7	60	nnw.	4	1.8			8		se.	0.02	0.5	rg'h	s.	clearing.
Enterprise, Santa, St. Lucia, W. I.*	30.02	762.5	77	25.0	82	ne.			1		8?		w.	0	0			clear?
Essex, N. 8° 52′, W. 17° 06′	29.91	759.7	81	27.2	66	nne.			3		0		e.					hazy.
Franklin, Norfolk, Va.	30.15	765.8	47	8.3	?	e.	8	3.6			8					sm'h	ne.	cloudy.
Galena, Palermo, Sicily	30.13	765.3	67	19.4	84	ne.			1		0		nw.	0.03	0.8			hazy.
Independence, Navy Yard, Mare Island, Cal.	30.12	765.0	36	2.2	90	calm			0		0					sm'h		clear.
Kearsarge, N. 21° 00′, W. 82° 53′	30.09	764.3	78	25.6	73	ne.			3		8		ene.	0	0			clear.
Lackawanna, Valparaiso, Chili†	29.99	761.7	61	16.1	?	n			1–2		10		n.			long	e.	cloudy.
Lancaster, Piraeus, Greece*	30.14	765.5	65	18.3	63	ssw.			1		5		calm	0	0			cloudy.
Marion, S. 33° 54′, E. 18° 24′*†	30.11	764.8	69	20.6	85	sse.			3		2		calm			sm'h		fair.
Michigan, Erie, Pa.	29.99	761.7	38	3.3	100	se.			2		8		e.					fair.
Minnesota, Newport, R. I.	30.05	763.3	39	3.9	73	nnw.	5	2.2			2		n.					cloudy.
Monocacy, N. 35° 01′ E. 138° 32′	29.85	758.2	57	13.9	75	e.			2		2		e.					
New Hampshire, Newport, R. I.	30.01	762.2	44	6.7	56	nnw.			3		0							fair.
Nipsic, Gibraltar, Mediterranean	30.05	763.3	65	18.3	63	sw.			3		5					sm'h		clear.
Onward, Callao, Peru†	30.03	762.7	66	18.9	100	calm			0		5					sm'h		fair.
Palos, N. 33° 56′ E. 130° 21′	29.97	761.2	51	10.6	79	ne.			1		5		n.			sm'h		fair.
Passaic, Washington, D. C.	30.15	765.8	44	6.7	?	calm			0		10		calm			long	w.	fair.
Pensacola, Callao, Peru	29.95	760.7	66	18.9	94	calm	0	0			10		calm			mod.	n.	cloudy.
Powhatan, N. 13° 16′ W. 61° 19′	30.04	763.0	80	26.7	74	sse.			1		2			0	0	sm'h		cloudy.
Quinnebaug, N. 37° 01′, E. 19° 08′	30.17	766.3	61	16.1	77	sw.			4		8							clear.
Ranger, Santiago Bay*	29.89	759.2	70	21.1	75	ne.			2		0		sw.			sm'h		fair.
Richmond, Yokohama, Japan*	29.81	757.2	46	7.8	54	n.			4		2			0	0	sm'h		clear.
Shenandoah, N. 12° 46′, W. 57° 01′*	30.09	764.3	77	25.0	73	ne.			2		2			0	0			fair.
St. Louis, League Island	30.39	771.9	38	3.3	100	calm	0	0			2		ne.			sm'h		clear.
Swatara, Kobe, Japan*	29.85	758.2	47	8.3	55	ne.			2		10			0	0			cloudy.
Tennessee, New Orleans, La*†	30.10	764.5	68	20.0	90	se.	2	0.9			0			0	0	sm'h		clear.
Vandalia, Key West, Florida†	30.24	768.1	73	22.8	90	e.			1		2							hazy.
Wabash, Boston, Mass.	30.02	762.5	37	2.8	81	wnw.	3	1.3			2		e.					clear.
Wachusetts, Sitka, Alaska	29.69	754.1	12	−11.1		ne.			3		2		wnw.	0	0			hazy.
Wyoming, Port Royal, S. C.	30.05	763.3	63	17.2	94	wsw.	3	1.3			0			0	0	sm'h		squally.
Yantic, N. 22° 32′, W. 94° 07′*	29.89	759.2	75	23.9	95	se.			4–6		2		se.			mod.	se.	clear.
																		squally.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.			Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	Force.	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Peruvian, N. 47° 20′ W. 34° 20′*	30.27	768.8	43	6.1	.....	W.	.....	.....	5	.....	7	.....	W	0	0	mod.	sw.	cloudy.
S. S. Polynesian, Halifax, N. S.*	29.69	754.1	34	1.1	.....	nw.	.....	.....	3	.....	1	.....	nw.	8 h'r	8 h'r	sm'h	.....	clear.
S. S. Prussian, N. 54° 24′, W. 11° 52′*	29.66	753.4	44	6.7	.....	W.	.....	.....	7	.....	3	.....	wnw.	.....	.....	r'gh	w.	clear.
S. S. Scandinavian, N. 43° 05′ W. 66° 00′*	29.82	757.4	34	1.1	.....	W.	.....	.....	5	.....	0	.....	.....	1 h'r	1 h'r	long	ese.	blue sky.
S. S. Waldensian, Glasgow, Scotland*	29.60	751.8	50	10.0	.....	W.	.....	.....	5	.....	2	.....	wsw.	5 h'r	5 h'r	.....	.....	showery.
AMERICAN STEAMSHIP COMPANY.																		
S. S. British Crown, Off Fastnet Rock, Eng.†	29.77	756.1	46	7.8	.....	nw.	.....	.....	5	.....	10	.....	.....	2 h'r	2 h'r	sm'h	nw.	raining.
S. S. Illinois, Liverpool, Eng.	29.60	751.8	52	11.1	53	wsw.	.....	.....	4	.....	8	.....	nw.	.....	.....	.....	.....	rainy.
S. S. Indiana, N. 39° 39′, W. 52° 58′†	29.76	755.9	60	15.6	88	o.	.....	.....	1	.....	5?	.....	e.	0	0	mod.	ese.	cloudy.?
S. S. Ohio, Philadelphia, Penn.	.....	.....	39	3.9	91	W.	.....	.....	1	.....	8	.....	W.	.....	.....	.....	.....	cloudy.
ANCHOR LINE.																		
S. S. Utopia, N. 34° 15′, W. 33° 53′*†	30.25	768.3	67	19.4	89	se.	.....	.....	5	.....	1	.....	se.	1 h'r	1 h'r	con	.....	clear.
ATLAS LINE.																		
S. S. Atlas, Savanilla, U. S. C.†	29.90	759.4	76	24.4	82	nne.	.....	.....	2	.....	5	.....	ne.	0	0	.....	.....	fine.
S. S. Alvo, N. 36° 40′, W. 74° 06′	30.18	766.6	50	10.0	.....	n.	.....	.....	4	.....	10	.....	nnw.	0	0	mod.	no.	threatening.
S. S. Arden, N. 23° 05′, W. 66° 54′	.....	.....	75	23.9	.....	ene.	.....	.....	.....	.....	.....	.....	.....	.....	.....	mod.	nne.	fine.
S. S. Athos, Kingston, Jamaica, W. I.	29.63	752.6	.....	.....	.....	.....	.....	.....	.....	.....	0	.....	.....	0	0	.....	.....	clear.
BOSTON AND HALIFAX LINE.																		
S. S. Carroll, N. 43° 03′, W. 66° 05′†	29.89	759.2	37	2.8	81	wnw.	.....	.....	.....	.....	.....	.....	.....	rain	rain	.....	se.	clear.
BRITISH METEOROLOGICAL OFFICE.																		
S. Auckland, N. 19° 51′, W. 41° 13′	30.14	765.5	74	23.3	.....	se.	.....	.....	4	.....	5	.....	.....	.....	.....	.....	.....	d. clouds.
S. Baroda, S. 33° 59′, E. 79° 19′	30.36	771.1	62.1	16.7	75	e.	.....	.....	5	.....	9	.....	.....	.....	.....	.....	.....	d. clouds.
British Merchant, N. 14° 32′, E. 91° 24′	29.88	758.9	82.2	27.9	83	W.	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	misty.
Bk. Caldew, N. 15° 28′, W. 39° 00′	30.13	765.3	74.5	23.6	.....	ene.	.....	.....	6	.....	10	.....	.....	.....	.....	.....	.....	misty.
Bk. Commewyne, N. 29° 31′, W. 58° 26′	29.74	755.4	65	18.3	76	nw.	.....	.....	5	.....	4	.....	.....	.....	.....	.....	.....	d. clouds.
Bk. Coppename, N. 49° 06′, W. 15° 46′	30.11	764.8	51	10.6	65	nw.	.....	.....	4	.....	3	.....	.....	.....	.....	.....	.....	blue sky.
S. S. Gordon Castle, Sinapore, India	29.85	758.2	.....	.....	.....	o.	.....	.....	1	.....	4	.....	.....	.....	.....	.....	.....	d. clouds.
Bg. Hermine, S. 9° 16′, W. 28° 56′	30.09	764.3	79.9	26.6	76	e.	.....	.....	5	.....	2	.....	.....	.....	.....	.....	.....	blue sky.
S. Lochee, N. 37° 00′, W. 39° 35′	30.12	765.0	63	17.2	94	se.	.....	.....	7	.....	8	.....	.....	.....	.....	.....	.....	squally.
S. S. Minho, Lisbon, Portugal	29.89	759.2	59.9	15.5	79	sw.	.....	.....	3	.....	7	.....	.....	.....	.....	.....	.....	squally.
CROMWELL LINE.																		
S. S. New Orleans, N 35° 30′ W. 74° 45′*†	30.15	765.8	50	10.0	.....	W.	.....	.....	.....	.....	10	.....	W.	.....	.....	mod.	ne.	cloudy.
CUNARD LINE.																		
S. S. Gallia, N. 40° 52′, W. 67° 26′	29.97	761.2	40	4.4	?	n.	.....	.....	3	.....	0	.....	.....	0	0	long	se.	hazy.
S. S. Scythia, N. 41° 09′, W. 52° 30′†	29.78	756.4	59	15.0	94	se.	.....	.....	2	.....	5	.....	ssw.	2 h'r	2 h'r	hv'y	e.	light. fog.
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. Canada, N. 49° 23′, W. 18° 28′	30.15	765.9	48.2	9.0	.....	wnw.	.....	.....	4	.....	5	.....	wnw.	2 h'r	2 h'r	.....	wnw	
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Bohemia, N. 40° 32,′ W. 71° 02′*†	29.98	761.5	.....	.....	.....	nw.	.....	.....	4	.....	6	.....	nw.	o	o	sm'h	n.	fine.
S. S. Gellert, N. 41° 21′, W. 56° 00′	29.63	752.6	60	15.6	.....	W.	.....	.....	1	.....	5	.....	nnw.	o	o	long	e.	fair.
S. S. Lessing, Hamburg, Germany	.....	.....	67	19.4	.....	W.	.....	.....	2	.....	2?	.....	W.	o	o	.....	.....	cloudy ?
S. S. Silesia, Off Start Point, Eng.*†	29.87	758.7	57.9	14.4	.....	wsw.	.....	.....	4	.....	2	.....	sw.	o	o	.....	.....	hazy.
S. S. Wieland, N. 41° 08′, W. 61° 06′	29.83	757.7	41	5.0	.....	nw.	.....	.....	5–6	.....	10	.....	nnw.	o	o	9	nnw.	stormy.
JOHNSTON LINE.																		
S. S. Thanemore, N. 46° 33′, W. 33° 23′	30.53	775.4	.....	.....	.....	wsw.	.....	.....	2	.....	10?	.....	W.	o	o	.....	n.	clear.?
MALLORY LINE.																		
S. S. Colorado, Galveston, Texas†	29.91	759.7	68	20.0	.....	sse.	.....	.....	3	.....	2	.....	sse.	o	o	.....	.....	clear.
MERCHANTS' EXPRESS LINE.																		
S. S. Freja, N. 41° 21′, W. 45° 56′†	29.92	760.0	60	15.6	94	sse.	.....	.....	8	.....	10	.....	ese.	o	o	cross	s.	
S. S. Hermod, Havre, France.*†	29.80	756.9	48.2	9.0	.....	sw.	.....	.....	1	.....	5	.....	s.	driz	driz	.....	.....	d. fog.
NATIONAL LINE.																		
S. S. Erin, New York, N. Y.	.....	.....	.....	.....	.....	nw.	.....	.....	2	.....	8	.....	nw.	o	o	.....	.....	fine.
S. S. Italy, N. 40° 02′, W. 65° 20′	30.04	763.0	.....	.....	.....	nnw.	.....	.....	5	.....	1	.....	n.	o	o	long	ne.	clear.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Niagara, Matanzas, Cuba, W. I.*	30.25	768.3	72	22.2	.....	calm	.....	.....	o	.....	o	.....	.....	o	o	.....	.....	clear.
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Amsterdam, N. 40° 35′, W. 69° 06′*†	30.24	768.1	52	11.1	.....	nw.	.....	.....	1–2	.....	.....	.....	.....	.....	.....	.....	ese.	clear.
S. S. Alvena, N 18° 29′, W. 66° 44′*†	29.97	761.2	71	21.7	.....	s.	.....	.....	4	.....	.....	.....	.....	.....	.....	.....	n.	fair.
S. S. Atlas, N. 29° 59′, W. 74° 00′*†	30.21	767.3	71	21.7	.....	wsw.	.....	.....	3	.....	.....	.....	.....	.....	.....	mod.	.....	fine.
S. S. Bothnia, N. 50° 58′, W. 14° 00′	29.92	760.0	50	10.0	.....	wnw.	.....	.....	6	.....	.....	.....	.....	.....	.....	.....	w.	rainy.
S. S. City of Washington, N. 25° 09′, W. 80° 13′*†	30.30	769.6	80	26.7	.....	sw.	.....	.....	1	.....	.....	.....	.....	.....	.....	sm'h	.....	fine.
S. S. Maas, N. 40° 22′ W. 42° 44′*	29.90	759.4	59	15.0	.....	se.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	se.	covered.
S. S. New York, N 39° 00′, W. 74° 12′*†	30.22	767.6	45	7.2	.....	var.	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	ene.	hazy.
S. S. Olbers, N. 4° 25′ W. 26° 30*†	29.98	761.5	81	27.2	.....	nne.	.....	.....	.....	.....	.....	.....	.....	.....	.....	sl't	se.	rainy.
NORTH GERMAN LLOYD																		
S. S. Elbe, N. 46° 20′ W. 33° 15′	30.55	776.0	46.4	8.0	.....	wsw.	.....	.....	4–5	.....	10	.....	w.	o	o	mod.	nw.	cloudy.
S. S. Hermann, N. 39° 28′, W. 60° 11′*†	29.65	758.2	51.8	11.0	.....	wnw.	.....	.....	6	.....	8	.....	w.	3 h'r	3 h'r	long	ne.	stormy.
S. S. Kronprinz F. Wilhelm, Off Cape Charles, Va.	30.18	766.6	46.4	8.0	.....	W.	.....	.....	1	.....	.....	.....	.....	3 h'r	3 h'r	2	.....	drizzling
S. S. Leipzig, N. 49° 00′, W. 18° 53′	.....	.....	51.0	10.6	68	wnw.	.....	.....	6	.....	.....	.....	.....	8 h'r	8 h'r	cross	wnw.	squally.
S. S. Main, N. 49° 38′, W. 10° 40′*	30.11	764.8	53.6	12.0	.....	nnw.	.....	.....	5	.....	4	.....	n.	o	o	high	nw.	fine.
S. S. Nurnburg, N. 6° 49′, W. 25° 20′*	29.97	761.2	84.2	29.0	68	ne.	.....	.....	4	.....	0	.....	.....	o	o	3	ne.	clear.
S. S. Oder, N. 40° 23′, W. 63° 23′	29.90	759.4	50.0	10.0	.....	n.	.....	.....	6	.....	2	.....	ne.	o	o	long	e.	fair.
S. S. Ohio, Bremerhaven, Germany	29.89	759.2	.....	.....	.....	ssw.	.....	.....	3	.....	0	.....	.....	o	o	.....	.....	clear.
S. S. Saller, N 41° 01′, W 65° 16′	29.95	760.7	37.4	3.0	.....	nnw.	.....	.....	6	.....	0	.....	.....	1 h'r	1 h'r	mod.	nnw.	clear.
S. S. Strassburg, N. 48° 36′, W. 20° 40′	30.29	769.4	49.0	9.4	85	nnw.	.....	.....	.....	.....	6	.....	nw.	3 h'r	3 h'r	h'vy	nw.	fair.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Belgic Yokohama, Japan †	29.72	754.9	50	10.0	78	n.	.....	.....	5	.....	5	.....	ne.	o	o	.....	.....	fair.
S. S. Gaelic, N. 23° 06′, E. 117° 15′†	29.90	759.4	67	19.4	95	sw.	.....	.....	2	.....	fg	.....	.....	.....	.....	sm'h	ne.	foggy.
S. S. Oceanic, N. 35° 38′ W. 137° 22′*	29.92	760.0	55	12.8	87	sse.	.....	.....	4	.....	8	.....	s.	.....	.....	3	ne.	overcast.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, N. 37° 10′, W. 74° 50′†	30.27	768.8	.....	.....	.....	nne.	.....	.....	3	.....	10	.....	.....	rain	rain	h'vy	ene.	rainy.
S. S. Seminole, N. 40° 10′, W. 72° 50′†	30.12	765.0	46	7.8	62	nw.	.....	.....	1	.....	5?	.....	wnw.	o	o	sm'h	ne.	clear.?
OREGON IMPROVEMENT COMPANY.																		
S. S. Mississippi, N. 48° 28′, W. 124° 48′†	30.30	769.6	37	2.8	81	e.	.....	.....	1	.....	10	.....	s.	.....	.....	light	w.	snowing.
S. S. Willamette, N. 40° 19′, W. 124° 34′*†	30.42	772.7	45	7.2	84	nnw.	.....	.....	4	.....	5	.....	nnw.	o	o	sm'h	.....	d. clouds.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. City of Chester, N 42° 23′, W. 124° 40′*†.	30.43	772.9	45	7.2	61	ssw.	.....	.....	2	.....	2	.....	sw.	.....	.....	long	wnw.	fair.
S. S. Oregon, N. 40° 23′, W. 124° 27′†	30.41	772.4	44	6.7	76	n.	.....	.....	3	.....	2	.....	n.	.....	.....	hv'y	n.	clear.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, San Pedro, Cal†	30.11	764.8	49	9.4	89	n.	.....	.....	1	.....	0	.....	.....	.....	.....	sm'h	sw.	clear.
S. S. Idaho, Esquimault, Vancouver's I'd., B. C†	30.20	767.1	35	1.7	70	se.	.....	.....	1	.....	10	.....	se.	.....	.....	.....	.....	overcast.
S. S. State of California, San Francisco, Cal†	30.27	768.8	42	5.6	74	nw.	.....	.....	3	.....	0	.....	.....	o	o	.....	.....	clear.
S. S. Victoria, San Francisco, Cal†	30.31	769.8	42	5.6	91	W.	.....	.....	3	.....	8	.....	.....	.....	.....	.....	.....	cloudy.
PACIFIC MAIL STEAMSHIP CO.																		
S. S. Australia, Sydney, N. S. W.	30.14	765.5	71	21.7	95	nw.	.....	.....	3	.....	5?	.....	nw.	o	o	.....	.....	cloudy.?
S. S. City of New York, N. 22° 10′ W. 155° 30′†	29.93	760.2	73	22.8	85	n.	.....	.....	2	.....	0	.....	.....	o	o	h'vy	w.	clear.
S. S. City of Pekin, N. 16° 04′, W. 98° 35′†	29.96	761.0	80	26.7	78	ene.	.....	.....	1	.....	.....	.....	.....	o	o	sm'h	.....	hazy.
S. S. City of Rio de Janeiro, Acapulco, Mexico†	30.19	766.8	80	26.7	78	W.	.....	.....	2	.....	.....	.....	.....	o	o	long	w.	clear.
S. S. City of Sydney, Sydney, N. S. W †	30.15	765.8	70	21.1	75	sw.	.....	.....	3	.....	0	.....	.....	o	o	sm'h	.....	fair.
S. S. City of Tokio, N. 33° 48′ W. 159° 14′†	29.93	760.2	58	14.4	88	sw.	.....	.....	4	.....	5	.....	se.	o	o	sm'h	.....	fair.
S. S. Clyde, N. 22° 10′, W 119° 25′†	30.17	766.3	54	12.2	67	nw.	.....	.....	4	.....	5	.....	s.	2 h'r	2 h'r	mod.	sw.	fair.
S. S. Colima, N. 35° 04′ W. 121° 06′†	30.16	766.1	47	8.0	62	n.	.....	.....	3	.....	2	.....	nw.	o	o	mod.	nw.	clear.
S. S. Colon, N. 23° 28′, W. 74° 24′†	30.20	767.1	76	24.4	.....	nne.	.....	.....	6	.....	5	.....	nw	o	o	cross	con.	misty.
S. S. South Carolina, Panama, Panama†	30.05	763.3	80	26.7	70	n.	.....	.....	2	.....	0	.....	.....	.....	.....	long	nne.	clear.
S. S. Zelandia, N. 36° 20′ W. 127° 22′	30.20	767.1	54	12.2	76	nne.	.....	.....	2	.....	5	.....	ne.	.....	.....	mod.	ne.	fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
QUEBEC S. S. COMPANY.																		
S. S. Bermuda, N. 36° 30′, W. 72° 26′†	30.00	762.0	38	3.3	.....	sse.	.....	.....	2	.....	fg	.....	.....	0	0	small	se.	foggy.
RED STAR LINE.																		
S. S. Nederland, N. 47° 16′, W. 23° 23′*†	30.88	784.3	47	8.3	.....	nw.	.....	.....	3	.....	10	.....	nw.	sh'rs	shr's	long	nw.	cloudy.
S. S. Rhynland, Jersey City, N. J.	30.10	764.5	45	7.2	61	nw.	.....	.....	2	.....	10	.....	nw.	0	0	.....	.....	cloudy.
S. S. Switzerland, N 49° 38′, W. 7° 25′†	29.90	759.4	.....	.....	.....	nw.	.....	.....	4	.....	10	.....	wnw.	0	0	r'gh	wnw.	misty.
S. S. Vaderland, N. 41° 42′, W. 46° 12°	29.91	759.7	60	15.6	.....	se.	.....	.....	7	.....	10	.....	sse.	0	0	r'gh	se.	overcast.
S. S. Waesland, Antwerp, Belgium..	30.15	765.8	54	12.2	.....	w.	.....	.....	1	.....	0	.....	.....	0	0	.....	.....	clear.
ROTTERDAM LINE.																		
S. S. W. A. Scholten, North Hinder, Netherlands*	29.69	454.1	56.2	13.4	81	wsw.	.....	.....	2	.....	3	.....	w.	0	0	sm'h	.....	foggy.
THINGVALLA LINE.																		
S. S. Thingvalla, Christiania, Norway†	29.74	755.4	42.3	5.7	.....	ssw.	.....	.....	5	.....	10	.....	ssw.	0	0	.....	.....	covered.
WHITE STAR LINE.																		
S. S. Britannic, N. 48° 56′ W. 30° 19′*†	30.24	768.1	48	8.9	.....	nw.	.....	.....	6	.....	8	.....	nw.	0	0	r'gh	n.	squally.
S. S. Celtic, New York, N. Y.*†	29.93	760.2	46	7.8	85	w.	.....	.....	2	.....	5	.....	w.	0	0	.....	.....	fair.
S. S. Republic, N. 40° 39′ W. 62° 47′†	29.92	760.0	48	8.9	85	nnw.	.....	.....	6	.....	4	.....	nw.	0	0	r'gh	nw.	fair.
WILSON LINE.																		
S. S. Romano, N. 49° 16′ W. 6° 06′	.....	.....	56	13.3	.....	nnw.	.....	.....	2	.....	9	.....	.....	0	0	.....	.....	cloudy.
S. S. Salerno, N. 39° 48′ W. 61° 01′†	29.81	757.2	52	11.1	.....	n.	.....	.....	6	.....	9	.....	n.	.....	.....	mod.	n.	clearing.
WINSOR LINE.																		
S. S. Catherine Whiting, New Castle, Del†	30.23	767.8	.....	.....	.....	wsw.	.....	.....	1	.....	.....	.....	.....	.....	1	.....	.....	rain & fog.
S. S. Norman, N. 40° 20′, W. 73° 10′	30.18	766.6	.....	.....	.....	nw.	.....	.....	5	.....	8	.....	w.	0	0	hv'y	se.	cloudy.
MISCELLANEOUS.																		
Sch. Addie Fuller, Cedar Keys, Florida†	30.24	768.1	69	20.6	95	calm	.....	.....	0	0	8 s	.....	nw.	0	0	.....	.....	cloudy.
Bk. Adelaide, S. 23° 02′, W. 42° 20′*†	29.98	761.5	79	26.1	.....	n.	.....	.....	1	.....	5	.....	ssw.	0	0	sm'h	ssw.	fair.
Sch'r Annie M. Smull, S. 21° 48′ W. 33° 09′*†	30.00	762.0	80	26.7	.....	ene.	.....	.....	.....	.....	.....	.....	ese.	0	0	.....	ese.	clear.
Bk. Bergenseren, N. 34° 42′ W. 29° 50′†	30.49	774.4	.....	.....	.....	e.	.....	.....	4	.....	.....	.....	e.	shr's	sh'rs	5	n.	d. clouds.
Bk. Celestina, N. 16° 05′, W. 36° 34′*†	30.05	763 3	.....	.....	.....	e.	.....	.....	3	.....	0	.....	.....	0	0	mod.	ene.	hazy.
S. S. Compton, N. 32° 28′ W. 79° 05′.†	30.05	763.3	.....	.....	.....	sw.	.....	.....	2	.....	0	.....	.....	0	0	sm'h	.....	clear.
Bk. E. L. Pettingill, S. 21° 00′, W. 97° 31′†	30.20	767.1	.....	.....	.....	e.	.....	.....	3	.....	1	.....	ese.	0	0	sm'h	.....	clear.
Ship Festina Lente, N. 56° 49′, E. 2° 00′*	29.56	750.8	.....	.....	.....	wsw.	.....	.....	4	.....	10	.....	w.	1 h'r	1 h'r	mod.	wsw.	cloudy.
U.S.F.C.S.S.Fish Hawk, Annapolis, Md.†	30.27	768.8	51	10.6	79	e.	.....	.....	1	.....	10	.....	se.	0	0	.....	.....	cloudy.
Bk Freya, Baltimore, Md.	.....	.....	46	7.8	.....	ese.	.....	.....	2	.....	8	.....	nw.	0	0	.....	.....	fair.
S. Grecian, N. 2° 20′ W. 26° 40′*†	29.95	760.7	77	25.0	.....	s.	.....	.....	1	.....	10	.....	ne.	12 h'r	12h'r	sm'h	se.	rainy.
Bk. Geo. Booth, S. 36° 39′, E. 9° 03′*†.	30.20	767.1	.....	.....	.....	wsw.	.....	.....	4	.....	.....	.....	.....	rain	rain	long	w.	
Bk. Granville, S. 20° 16′, W. 31° 58′*†.	30.22	767.6	.....	.....	.....	e. to ene	.....	.....	3	.....	.. ..	.....	ene.	rain	rain	sm'h	.....	clear.
S. Hedwig, N. 56° 19′, E. 1° 26′	29.58	751.3	45.1	7.3	92	ssw.	.....	.....	6	.....	9	.....	sw.	0	0	4	ssw.	cloudy.
Schr. Henry Denison, Georgetown, Brit. Guiana†	29.98	761.5	.....	.....	.....	n. to ne.	.....	.....	4	.....	6	.....	nne.	0	0	.....	.....	cloudy.
Bk. Johanne Auguste, S. 5° 51′, E. 88° 42′*..	29.75	755.6	.....	.....	.....	wnw	.....	.....	2	.....	2	.....	wnw.	0	0	sm'h	.....	fair.
Bg. John Wesley, N. 32° 12′, W. 73° 09′†	30.03	762.7	72	22.2	.....	sw.	.....	.....	6	.....	10	.....	sw.	0	0	mod.	sw.	hazy.
Bkt. Josephine, N. 25° 56′, W. 70° 42′*†	30.26	768.6	74	23.3	81	w.	.....	.....	5	.....	10	.....	wnw.	0	0	mod.	nnw.	cloudy.
Bk. Kate Cann, N. 50° 49′, E. 0° 30′	.....	.....	.....	.....	.....	wsw.	.....	.....	5	.....	8	....	w.	½h'r	½h'r	.....	.....	hailing.
Bkt. Kryolith, N. 42° 09′, W. 13° 40′*†	29.90	759.4	.....	.....	.....	n.	.....	.....	7	.....	10	.....	.....	0	0	mod.	wnw.	cloudy.
Schr. Maggie Abbott, Baracoa, Cuba, W. I.*†	30.12	765.0	.....	.....	.....	ne.	.....	.....	3	.....	....	....	ne.	0	0	.....	.....	clear.
S. S. Malabar, N. 45° 29′, W. 2° 26′½*†	29.87	758.7	.....	.....	.....	e.	.....	.....	1	.....	fg.	.....	e.	0	0	sm'h	.....	foggy
S. S. Nebo, N. 29° 46′, W. 64° 49′*†	29.80	756.9	.....	.....	.....	nnw.	.....	.....	4	.....	8	.....	nnw.	0	0	long	n.	cloudy.
Bk. Peppina, N. 39° 08′. E. 5° 30′†	30.02	762.5	66	18.9	84	sse.	.. ..	.....	2	.....	5?	.....	sw.	.....	.....	sm'h	.....	cloudy?
Bk Pilgrim, S. 43° 15′, E. 89° 04′*†	30.25	768.3	.....	.....	.....	s.	.....	.....	3	.....	5	.....	s.	8 h'r	8 h'r	cross	var.	fair.
Bkt. Spotless, N. 30° 27′, W. 48° 48′*†	29.70	754.4	.....	.....	.....	sw.	.....	.....	.....	.....	.....	....	w.	.....	.....	.....	se.	fair.
Bk. Stella, S. 54° 45′, W. 63° 30′*	29.97	761.2	45.1	7.3	94	nne.	.....	.....	5	.....	8	.....	n.	.....	.....	.....	.....	raining.
Bk. Sunbeam, N. 34° 00′, W. 74° 22′*†	30.06	763.5	68	20.0	92	ene.	.....	.....	3	.....	10	.....	e.	0	0	sm'h	.....	cloudy.
Bg. Wauburn, S. 14° 21′, W. 12° 20′*†	30.10	764.5	.....	.....	.....	ese.	.....	.....	6	.....	4	.....	ese.	.....	.....	sm'h	.....	
S. Wm. Woodbury, Bremerhaven, Germany*†	29.64	752.8	50	10.0	65	w.	.....	.....	4	.....	.....	.....	w.	.....	.....	.....	.....	



Data, as appearing in the International Bulletin of similar date.

Isobars in *black* exhibit atmospheric pressure at sea-level, and are charted from data as reported by the several observers.

Isotherms in *red* exhibit temperature of air, similarly charted.

Broken or dotted lines indicate that the lines so broken are doubtful.

Arrows, when charted, fly with the wind and exhibit wind-direction and force.

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W. B. Hazen

Brig. & Bvt. Maj. Gen'l.
Chief Signal Officer. U. S. A.

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INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON MARCH 21, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours	.....	.....	29.96	760.9	63.0	17.2	78	ne.	.....	.....	5	.....	2	.....	.....	0	0	fair	Moiroud.
Algiers	.....	.....	30.01	762.2	69.4	20.8	54	w.	.....	.....	2	.....	5	.....	.....	trap.	trap.	cloudy	Nicolas.
La Calle	.....	.....	30.02	762.5	74.1	23.4	79	e.	.....	.....	1	.....	2	.....	.....	0	0	fair	Fonfréde.
Tunis	.....	.....	30.05	763.3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.06	763.5	69.4	20.8	17	s.	.....	.....	7	.....	4	.....	.....	0	0	cloudy	Dumas.
Tebessa	.....	.....	30.13	765.4	71.2	21.8	21	wnw.	.....	.....	4	.....	0	.....	.....	0	0	clear	Derché.
Geriville	.....	.....	.....	.....	64.8	18.2	21	w.	.....	.....	7	.....	4	.....	.....	0	0	cloudy	Lonchamp.
Laghouat	.....	.....	30.18	766.5	62.2	16.8	28	se.	.....	.....	5	.....	3	.....	.....	c	0	pretty fair	Herbin.
Biskra	.....	.....	30.14	765.5	79.5	26.4	16	se.	.....	.....	1	.....	2	.....	.....	0	0	fair	Malau.
Australian.																			
Melbourne, Victoria	30.05	763.3	30.14	765.5	57.4	14.1	86	sse.	4	1.8	.....	.....	1	.....	.....	0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.43	747.4	29.96	761.0	65.8	18.8	48	sw.	.....	.....	3	.....	3	.....	.....	0	0	.....	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.13	740.0	29.88	758.9	67.8	19.9	31	s.	13.0	5.8	.....	.....	7	.....	.....	0	0	.....	Dr. Wierzbiski.
Eperies	29.10	739.1	29.97	761.1	60.8	16.0	39	se.	.....	.....	3	2 cs	0	.....	.....	0	0	.....	Julius Mikolik.
Gratz	28.70	728.9	29.92	760.0	64.4	18.0	46	se.	.....	.....	1	.....	1	.....	.....	0	0	.....	Andreas Rospini.
Hermannstadt	28.61	726.6	30.00	762.0	65.8	18.8	46	s.	.....	.....	2	.....	8	.....	.....	0	0	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.60	726.5	29.93	760.1	57.7	14.3	63	calm	.....	.....	0	.....	9	.....	.....	0	0	cloudy	The Staff.
Lemberg	28.98	736.1	29.95	760.7	61.3	16.3	43	se.	.....	.....	1	.....	0	.....	.....	0	0	.....	Dr. T. Stanecki.
Pola	29.97	761.3	30.09	764.2	59.5	15.3	96	sse.	.....	.....	3	.....	10	.....	.....	0	0	.....	I. R. Hydrographic Office.
Szathmar	29.54	750.4	30.01	762.2	66.4	19.1	29	s.	.....	.....	2	.....	8	.....	.....	0	0	.....	Joseph Midlinszky, S. J.
Szegedin	29.71	754.5	29.98	761.4	66.2	19.0	40	s.	.....	.....	2	.....	6	.....	.....	0	0	.....	Karl Stancel.
Trieste	29.97	761.3	30.08	763.9	60.8	16.0	77	calm	.....	.....	0	.....	8	.....	.....	0	0	.....	Rieder.
Vienna	29.21	742.0	29.91	759.7	66.4	19.1	39	w.	.....	.....	2	.....	3	.....	.....	0.004	0.1	.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.34	745.2	29.44	747.8	38.5	3.6	41	wnw.	13	5.8	.....	.....	4	.....	.....	0.075	1.9	blue sky	W. Boswell.
Armagh, Observatory	29.44	747.8	29.70	754.4	33.7	0.9	93	wnw.	10	4.5	.....	.....	10	.....	.....	.....	.....	snowing	S. Call.
Bidston, Liverpool Obs'y	.....	.....	29.61	752.1	41.9	5.5	75	w.	48	21.5	.....	.....	7	.....	.....	.....	.....	d. clouds	John Hartnup.
Bolton, Sharples	29.04	737.6	29.58	751.3	38.1	3.4	67	wsw.	36	16.1	.....	.....	6	.....	.....	.....	.....	d. clouds	Thomas Mackereth [A.S.
Bradford, Yorkshire	29.12	739.6	29.51	749.5	37.6	3.1	84	sw.	.....	.....	4	.....	5	.....	.....	0.07	1.8	snowing	J. McLandsborough, F. R
Bridgetown, Barbadoes	30.00	762.0	30.03	762.7	81.0	27.2	70	ne.	.....	.....	3	.....	6	.....	.....	.....	.....	gloomy	Pvt. J. Surgenor, A. H.C.
Cardington	.....	.....	29.69	754.1	44.0	6.7	58	w.	.....	.....	4.0	.....	5	.....	.....	.....	.....	d. clouds	John McLaren.
Chatham, School M. E.	29.63	752.6	29.76	755.9	48.1	8.9	48	sw.	.....	.....	2	.....	5	.....	.....	.....	.....	d. clouds	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	29.72	754.9	29.95	760.7	46.7	8.2	57	wnw.	.....	.....	4	.....	8	.....	.....	.....	.....	misty	The Staff.
Fort Napier, Natal	27.62	701.5	29.84	757.9	72.1	22.3	85	se.	.....	.....	2	.....	7	.....	.....	.....	.....	.....	Pvt. E. K Annis, A.H.C.
Free Town, Sierra Leone	29.60	751.8	29.83	757.7	89.0	31.7	66	w.	.....	.....	1	.....	3	.....	.....	.....	.....	d clouds	Sergt. John Robinson.
Galway, Queen's College	.....	.....	29.72	754.9	.....	.....	.....	nw.	.....	.....	4	.....	7	.....	.....	.....	.....	snowy	J. O'Donaghue.
Gibraltar, Mediterranean	29.98	761.5	30.04	763.0	63.4	17.4	80	se.	.....	.....	2	.....	8	.....	.....	.....	.....	gloomy	Cpl. O. Baldwin.
Glasgow, Observatory	29.72	744.7	29.52	749.8	38.8	3.8	61	wsw.	.....	.....	4	.....	10	.....	.....	.....	.....	foggy	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.58	751.3	29.75	755.6	49.0	9.4	64	w.	.....	.....	6	.....	4	.....	.....	.....	.....	d. clouds	The Staff.
Guernsey	29.66	753.4	29.97	761.2	59.0	15.0	67	nw.	.....	.....	2	.....	8	.....	.....	.....	.....	showery	A. Collenette, F, M. S.
Kew, Observatory	29.73	755.1	29.77	756.1	40.7	8.2	38	w.	30	13.4	.....	.....	3	.....	.....	.....	.....	d. clouds	The Staff.
Leicester, Museum	29.40	746.7	29.66	753.4	48.8	9.3	.....	nw.	.....	.....	5	.....	8	.....	.....	.....	.....	d. clouds	J. C. Smith.
Malta, Mediterranean	30.07	763.8	30.14	765.5	68.0	20.0	72	s.	.....	.....	2	.....	0	.....	.....	.....	.....	blue sky	I. H. Whysall.
Nassau, Bahamas	30.15	765.8	30.19	766.8	75.5	24.2	74	se.	.....	.....	1	.....	4	.....	.....	.....	.....	d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.15	740.4	29.68	753.9	47.9	5.5	46	w.	.....	.....	5	.....	5	.....	.....	.....	.....	d. clouds	John Mac Emall.
Oxford, Radcliffe Obs'y	29.53	750.0	29.76	755.9	45.4	7.4	42	sw.	.....	.....	6	.....	6	.....	.....	.....	.....	squally	The Staff.
Plymouth	29.83	757.7	29.90	759.4	47.0	8.3	67	wnw.	.....	.....	4	.....	2	.....	.....	.....	.....	d. clouds	John Merrifield.
Sandwick Manse, Orkneys	.....	.....	29.36	745.7	34	1.1	80	wsw.	29	13.0	.....	.....	5	.....	.....	.....	.....	snowy	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	30.06	763.5	30.12	765.0	60.4	15.8	38	calm	.....	.....	0	.....	2	.....	.....	.....	.....	misty	W. H. Lyne.
Sheffield	29.31	744.5	29.60	751.8	39.9	4.4	72	sw.	.....	.....	5	.....	7	.....	.....	0.07	1.8	snow & hail	W. F. Cooper.
Silloth Rectory	29.50	749.3	29.53	750.0	42.0	5.6	72	n.	.....	.....	4	.....	4	.....	.....	0.037	0.9	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	29.56	750.8	40.4	4.7	63	w.	35	15.6	.....	.....	10	.....	.....	.....	.....	squally	R. S. J. Perry.
Stratfield Turgiss	29.57	751.1	29.79	756.7	48.0	8.9	45	nw.	.....	.....	3-5	.....	1	.....	.....	.....	.....	squally	Rev. C. H. Griffiths, F.M.S.
Truro, Royal Institution	29.87	758.7	29.91	759.7	48	8.9	71	nw.	.....	.....	8	.....	10	.....	.....	.....	.....	raining	W. Newcombe.
Valencia, Observatory	29.98	761.5	30.00	762.0	42.4	5.8	69	nw.	39	17.4	.....	.....	4	.....	.....	blank	blank	squally	The Met'g'l Office.
Canadian.																			
Bathurst, N. B	.....	.....	.....	.....	15.0	— 9.4	.....	nw.	3	1.3	.....	0	7 ks	.....	.....	0	0	cloudy	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.82	757.4	29.86	758.4	15	— 9.4	81	nw.	5	2.2	.....	0	2 s	.....	nw.	0.075	1.9	fair	H. J. Cundall, C. E.
Chatham, N. B*	29.86	758.4	29.93	760.2	10	—12.2	87	w.	13	5.8	.....	0	0	.....	.....	0.02	0.5	clear	G. A. Blair.
Cornwall, Ontario	29.73	755.1	29.94	760.5	20.1	— 6.6	92	e.	.....	.....	2	.....	10 s	.....	.....	0	0	cloudy	James Smith, M. A.
Dalhousie, N. B	29.74	755.4	29.92	760.0	15.0	— 9.4	.....	w.	.....	.....	5	0	8 ks	.....	.....	0	0	cloudy	R. A. Johnson.
Father Point, Quebec*	29.99	761.7	30.01	762.2	5	—15.0	91	nw.	30	13.4	.....	0	2 s	.....	nw.	0	0	clear	J. McWilliams.
Fort Garry, Manitoba*	29.17	740.9	30.06	763.5	14	—10.0	100	n.	7	3.1	.....	.....	10 n	.....	.....	0.700	17.8	cloudy	James Stewart.
Fredericton, N. B	29.93	760.2	30.00	762.0	12.1	—11.1	79	w.	8	3.6	.....	0	0	.....	.....	0.20	5.1	clear	Prof. Harrison.
Granton, Ontario	28.38	720.8	29.51	749.5	30.0	— 1.1	100	e.	.....	.....	3	.....	10 n	.....	.....	trap.	trap.	snowing	James Grant.
Halifax, N. S*	29.77	756.1	29.91	759.7	25	— 3.9	67	w.	7	3.1	.....	0	0	.....	.....	0	0	clear	A. Allison.
Hamilton, Ontario	29.14	740.1	29.54	750.3	30.7	— 0.7	93	e.	.....	.....	5	10 cs	0	.....	.....	0.20	5.1	snow & sleet	Geo. Dickson, B. A.
Kingston, Ontario*	29.49	749.0	29.84	757.9	25	— 3.9	80	ne.	24	10.7	.....	.....	10 s	.....	se.	0	0	cloudy	A. P. Knight, M. A.
Little Glace Bay, N. S	29.75	755.6	29.79	756.7	17.2	— 8.2	80	nw.	.....	.....	6	5 k	0	nw.	.....	0	0	fair	C. H. Rigby.
Montreal, Quebec*	29.80	756.9	30.03	762.7	16	— 8.9	67	ne.	11	4.9	.....	.....	10 n	.....	.....	0	0	cloudy	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.01	736.8	29.74	755.4	22	— 5.6	87	e.	17	7.6	.....	.....	10 n	.....	e.	0.01	0.3	light snow	Rev. R. Mosley.
Peterboro, Ontario	29.02	737.1	29.90	759.4	24.4	— 4.2	87	e.	.....	.....	6	.....	10 n	.....	.....	0	0	cloudy	J. Dixon, B. A.
Port Dover, Ontario	28.90	734.0	29.59	751.6	32	0.0	100	ne.	10	4.5	.....	.....	10 n	.....	e.	0.09	2.3	light rain	H. Morgan.
Port Stanley, Ontario	28.86	733.0	29.52	749.8	33	0.6	88	e.	20	8.9	.....	.....	10 n	.....	se.	0.30	9.1	light rain	M. Payne.
Quebec, Quebec*	29.70	754.4	30.06	763.5	9	—12.8	80	nw.	.....	.....	1	.....	hz.	.....	nw.	0	0	fair	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.48	748.8	29.95	760.7	14	—10.0	83	e.	6	2.7	.....	.....	10 n	.....	.....	0	0	threatening	W. H. McIntyre.
Sangeen, Ontario*	28.85	732.8	29.59	751.6	27	— 2.8	92	e.	28	12.5	.....	.....	10 s	.....	.....	0.01	0.3	light snow	
St. Andrews, N. B	29.90	759.4	29.95	760.7	17	— 8.3	79	n.	2	0.9	.....	0	0	.....	.....	0	0	clear	
St. John, N. B	29.78	756.4	29.96	761.0	17.0	— 8.3	100	n.	11	4.9	.....	0	0	.....	.....	0	0	clear	G. Murdock, C. E.
St. Pierre, N. F	.....	.....	29.65	753 1	14.7	— 9.6	.....	nw.	.....	.....	5	.....	.....	.....	.....	0	0	.....	N. F. Land, Com't.
Stratford, Ontario	28.21	716.5	29.53	750.0	28.5	— 1.9	94	se.	18	8.0	.....	0	2 s	.....	.....	0.100	2.5	fair	C. I. Macgregor, M. A.
Sydney, C. B*	29.74	755.4	29.81	757.2	18	— 7.8	76	w.	16	7.2	.....	10 k	0	w.	.....	0.01	0.3	fair	T. C. Hill, C. E.
Toronto, Ontario*	29.33	745.0	29.72	754.9	27	— 2.8	92	e.	22	9.8	.....	.....	10 n	.....	.....	0.04	1.0	heavy snow	Magnetic Observatory.
Windsor, N. S	29.80	756.9	29.90	759.4	22.0	— 5.6	93	sw.	8	3.6	.....	0	0	.....	.....	0	0	clear	Prof. W. R. Butler.
Woodstock, Ontario	28.47	723.1	29.57	751.1	29.5	— 1.4	89	ne.	39	17.4	.....	4 c	6 s	.....	.....	0.05	1.3	cloudy	Prof. Wolverton
Yarmouth, N. S*	29.86	758.4	29.93	760.2	29	— 1.7	77	n.	3	1.3	.....	8 cs	0	w.	.....	0	0	fair	Lt. F. E. Wilmot, R. N.
Sub-stations.																			
St. Johns, Newfoundland	29.47	748.5	29.73	755.1	22	— 5.6	.....	w.	4	1.8	.....	.....	10	.....	.....	0	0	fair	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.13	765.3	30.16	766.1	70.0	21.1	83	w.	9.1	4.1	.....	0	3 s	.....	.....	0.040	1.0	hazy	John Duthie.
Cape Town, C. G. H. Obs'y	30.06	763.5	30.10	764.5	77.5	25.3	56	s.	33	14.8	.....	0	2	.....	.....	0	0	.....	The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
CHINESE (*Sub-series*).																			
Hankow	30.26	768 6	30.55	776.0	50.7	10.4	50	nne.			3		0			0	0		N. Titoushkin.
Zi-Ka-Wei, near Shanghai.	30.26	768.7	30.29	769.3	39.2	4.0	70	n.	2.2	1.0			1			0	0,	clear..	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	29.54	750.3	29.59	751.5	53.6	12.0	66	ssw.	17.9	8			8						Oversergent Fischer.
Fanöe	29.45	747.9	29.47	748.4	45.1	7.3	89	sw.			4		5						Overloerer Lauridsen
Godthaab, Greenland	28.99	736.3	29.03	737.4	29.1	— 1.6		ene.			4		10					snowing	S. Kleinschmidt.
Stykkisholm, Iceland	30.15	705.8	30.19	766.9	17.6	— 8.0	88	n.			7		2						A. O. Thorlacius
Thorshavn	29.12	739.6	29.15	740.5	31.3	0.4	82	n.	22.4	10			3						Overloerer Bergh.
Vestervig	29.29	743.9	29.38	746.2	45.3	7.4	83	ssw.			6		3						Loerer Oesterbol.
FRENCH.																			
Agen, Normal School	29.39	746.5	30.04	762.9	63.0	17.2	27	calm			0	ck	k			0	0		M. Labroue, Director.
Alençon, Normal School	29.43	747.6	29.98	761.6	50.7	10.4	80	sw.			1	ck	o	n.		0	0		M. Nicot, Director.
Arras, Engineer School	29.58	751.3	29.84	758.0	44.6	7.0	81				10		10		n.	0	0	covered	M. Klein, Commandant.
Avignon, Normal School	30.02	762.5	30.10	764.5	66.2	19	54	w.			2		2		sw.	0.024	0.6	slightly cl'dy	M. Giraud, Director.
Bar-sur-Seine	29.42	747.3	29.97	761.3	55.0	12.8	56	s.			1		1c			0	0	covered	M. Saillard, Director.
Beauvais, Normal School	29.64	752.9	29.91	759.6	55.0	12.8	40	wsw.			3		5		wsw.	0	0	cloudy	M. Frère Eugène Mari.
Besançon, Normal School	29.08	738.7	29.98	761.4	62.6	17	47	s.			1		0			0	0	clear	M. Gobin, Director.
Bordeaux, Observatory	29.80	756.9	30.06	763.6	55.8	13.2	77	ssw.			1		8			0.008	0.2	¾ covered	M. Rayet, Director.
Bourges, Normal School	29.45	748.1	30.00	762.0	59.9	15.5	53				2		k			0.028	0.7		M. Postel, Director.
Brest, Naval Observatory	29.80	756.9	30 04	763.1	54.3	12.4	63	wnw.			3		8		wnw.	0.008	0.2		M. de Kermaree, Dir.
Caen, Normal School	29 86	758.5	29.94	760.4	48.2	9	76	sw.			2		5		w.	0.020	0.5	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.56	750.8	29.88	758.9	50.5	10.3	76	s.			4		10			0	0	covered	M. Jadot, Director.
Charleville, Normal School	29.36	745.8	29.88	758.9	50.0	10	64	sw.			2		10		ne.			raining	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.66	727.9	30.00	761.9	60.1	15.6	48	n.			1	o	8k			0	0	¾ covered	M. Alluard, Director.
Cluny, Normal School	29.18	741.2	30.01	762.3	64.4	18	40	se.			2		3			0.059	1.5		M. de Villemontée, Dir.
Commercy, Normal School	29.08	738.7	29.95	760.6	54.1	12.3	74	w.			4		5kn	w.	w.	0	0	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.54	699.6	30.04	763.1	60.4	15.8	33					o	1 k		s.	0	0		M. Jeangirard, Director.
Grénasque, du. Rhone	28 97	735.9	30.08	764.1	63.7	17.6	52	sw.			2		7		s.	0	0		M. Kina, Director.
Grenoble, Normal School	29.26	743.1	30.02	762.4	60.8	16	49	wnw.			2		ckn	w.	s.	0	0		M. Ablard, Director.
Guéret, Normal School	28.44	722.3	30.00	761.9	58.1	14.5	57	sw.			2		kn		sw.	0.020	0.5		M. Rivoire, Director.
Lamballe, Normal School	29.74	755.4	30.02	762.4	49.1	9.5	80	ssw.			2		8		ssw.			raining	M. Ollitrault, Director.
Lescar, Normal School	29.52	749.7	30.08	764.0	59.4	15.2	75	wnw.			2		2			0	0	slightly cl'dy	M. Chauvin, Director.
Lorient, Naval Observatory	29.99	761.8	30.10	764.4	52.7	11.5	83	wnw.			1		8	w.	nw.	0	0	¾ covered	Lt. T. Carré, Director
Lyon, St. Genis-Laval	28.98	736.1	30.02	762.4	63.0	17.2	40	s.			2		5k		wsw.	0	0	½ covered	M. André, Director.
Mans, Normal School	29.71	754.6	30.02	762.5	50.9	10.5	45	w.			1		2		w.	0	0	slightly cl'dy	M. Piboen, Director.
Marseille, Observatory	29.84	758.0	30.11	764 8	64.9	18.3	60	sw.			3		3		ssw.	0	0		M. Stephan, Director.
Montlouis l'Instituteur	24.83	630.6	29.67	753.6	47.8	8.8	52	se.	15.0	6.7			5		se.	0.118	3.0		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.90	760.9	30.08	764.0	64.0	17.2	70	s.			2		2		sw.	0	0	slightly cl'dy	M. Galzin, Director.
Nancy, Normal School	29.19	741.5	29.97	761.1	59.9	15.5	38	wsw.			2	5 ck	o	sw.		0	0	cloudy	M. Hasse, Director
Nantes, Observatory	29.93	760.2	30.09	764 3	57.0	13.9	50	wnw.			1-2	o	3k		wnw.	0	0		M. Larocque, Director.
Perpignan, Observatory	29.98	761.4	30.09	764.2	63.0	17.2	60	s.	9.4	4.2			5	e.	var.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.19	538.3			27.0	— 2.8		se.			1		10		se.	0.150	3.8	snowy	Gen'l de Nansouty, Dir.
Privas, Normal School	29.06	738.1	30.11	764.8	64.0	17.8	44	n.			3					0	0		M. Talliou.
Puy de Dôme Obs'y, Summit	25.15	638.8			43.5	6.4	72	sw.			2		8 k			0.063	1.6	¾ covered	M. Alluard, Director.
Rochefort, Naval Obs'y	30.02	762.4	30.05	763.2	59.4	15.2	76	w.			2		10		w.	0.020	0.5	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.79	756.7	30.01	762.2	56.1	13.4	62	nw.			1		10			0	0	covered	M. Mouillot, Director.
Rodez, Normal School	27.85	707.5	29.99	761.7	59.4	15.2	65	se.			2		5			0	0	fair	M. Serger, Director.
Rouen, Normal School	29.86	758.5	29.91	759.7	53.6	12	56	wsw.			3		8			0	0	very cloudy	M. Platrier, Director.
Saint Maur, Observatory	29.78	756.3	29.94	760.5	55.2	12.9	56	sw.			2		10		wsw.	0	0		M. Renou, Director.
Toulouse, Observatory	29.37	745.9	30.09	764.3	65.7	18.7	59	se.			2		2		s.	0	0	slightly cl'dy	M. Baillaud, Director.
Versailles, Observatory	29.44	747.7	29.93	760.2	52.9	11.6	56	w.			4					0.028	0.7		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.66	753.4	29.95	760.8	53.1	11.7	58	w.			1		1c		w.	0	0		M. Marié Davy, Director
GERMAN.																			
Bamberg	29.06	738.1	29.91	759.7	64.4	18.0	40	w.			4	o	2 k		sw.	0	0		Prof. Dr. Hoh.
Berlin	29.50	749.2	29.67	753.5	66.7	19.3	29	sw.			4		5			0.004	0.1	raining	Prof. Dr. Arndt.
Breslau	29.30	744.2	29.83	757.6	66.6	19.2	34	wsw.			1		1	sw.		0	0		Royal University Obs'y.
Carlsruhe	29.43	747.6	29.86	758.5	63.5	17.5	62	sw.			5		9	sw.		1.063	27.0	thund'r st'm	Albert Senz.
Cassel	28.99	736.4	29.71	754.5	59.2	15.1	51	sw.			4		6	s.		0.039	1.0		Dr. H. Möhl.
Frankfort on the Main	29.45	748.0	29.81	757.1	64.0	17.8	48	sw.			3		6			0	0		Physical Society.
Friedrichshafen	28,54	724.9	29.96	761.0	57.6	14.2	60	sw.			2		2	sw.		0.260	6.6	snowing	Wilhelm, Chief Tel.
Hamburg	29.53	750.1	29.63	752.5	52.9	11.6	85	sw.			5		8			0.055	1.4		E. Preller.
Kiel	29.54	750.4	29.56	750.8	48.9	9.4	74	w.			4		10			0.024	0.6		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.35	745.4	29.76	755.8	65.8	18.8	39	sw.			4		7	sw.		0	0	stormy	H. Leppig, Asst.
Magdeburg	29.52	749.7	29.70	754.4	67.1	19.5	37	sw.			5	3 ck	0	sw.		0.445	11.3		Dr. Assmann.
Memel	29.76	755.9	29.81	757.1	53.8	12.1	63	s.			3	o	o						Issermann.
Munich	28.12	714.3	29.98	761.5	59.9	15.5	44	nw.			1		3	sw.		0.339	8.6		Central Station
Neufahrwasser	29.72	755.0	29.74	755.4	67.3	19.6	38	s.			2		1			0	0		A. Lothes.
Neustadt, Palatinate	29.33	745.0	29.85	758.2	62.1	16.7	50	s.			1		0			0.197	5.0		Dicknether.
Stuttgart	28.96	735.5	29.83	757.7	64.0	17.8	42	w.			4		4	w.		0.276	7.0		Prof. Dr. Schoder.
Wustrow	29.57	751.1	29.60	751.7	50.9	10.5	98	w.			6	o	5 8			0.157	4.0	Thunder	Profs. Brandes & Reimer.
GREEK.																			
Athens	29.76	755.9	30.15	765.7	67.6	19.8		sw.			1.0		3			0	0	misty	Schmidt & Wourlisch
INDIAN.																			
Bellary	28.32	719.3			98.5	36.9	16	se.	4.4	2.0		2 c	1	wnw.		0	0	d. clouds	
Kurrachee	29.92	760.0	29.97	761.3	80.7	27.1	62	w.	29	13.0			4			0	0	d. clouds	
Deesa	29.39	746.4	29.85	758.1	98.0	36.7	29	nw.	10.2	4.6			2	nnw.		0	0	d. clouds	
Bombay	29.73	755.1	29.77	756.0	87.4	30.8	62	nnw.	19	8.5			0			0	0	blue sky	
Poona, Yarrowda	27.95	709.8	29.72	755 0	101.3	38.5	10	e.	5	2.2			6	w.		0	0	d. clouds	
Belgaum	27.29	693.2	29.76	755.8	91.0	32.8	15	nw.	19	8.5			7	ne.	ne.	0.03	0.8	thund'r st'm	
Lahore	29.09	738.8	29.82	757.4	87.0	30.6	36	w.	3.3	1.5			8			0	0	d. clouds	
Roorkee	28.81	731.7	29.68	754.0	91.6	33.1	19	nw.	5.8	2.6			7			0	0		
Agra	29.20	741.6	29.74	755.4	97.8	36.6	15	w.	10.9	4.9			0			0	0		
Nagpur	28.74	729.9	29.74	755.3	99.9	37.7	15	calm	3.6	1.6			0			0	0	blue sky	
Jubbulpore	28.46	722.8	29.76	755.9	98.9	37.2	12	n.	1.9	0.8			0			0	0	blue sky	
Lucknow	29.33	745.0	29.69	754.2	98.0	36.7	16	wnw.	11.0	4.9			0			0	0	misty	
Allahabad	29.41	746.9	29.71	754.6	94.7	34.8	24	w.	9.8	4.4			0			0	0	misty	
Patna	29.53	750.0	29.71	754.6	90.4	32.4	35	ne.	2.8	1.2			0			0	0	blue sky	
Hazaribagh	27.73	704.3	29.67	753.6	94.6	34.8	28	w.	12.4	5.5			0			0	0	blue sky	
Cuttack	29.66	753.4	29.74	755.4	90.9	32.7	49	ssw.	1.3	0.6			0			0	0	blue sky	
Calcutta, Alipore	29.68	753.9	29.70	754.5	87.6	30.9	69	ssw.	6.0	2.7			0			0	0	blue sky	
Dhubri	29.61	752.2	29.73	755.2	86.3	30.2	55	calm	4.5	2.0			5			0	0	d. clouds	
Chittagong	29.71	754.6	29.80	756.9	80.9	27.2	83	sw.	5.1	2.3			0			0	0	blue sky	
Sibsagar	29.46	748.4	29.80	757.0	79.1	26.2	68	ne.	4.1	1.8			0			0	0	blue sky	
Jeypore	28.41	721.5	29.81	757.3	93.7	34.3	20	nw.	8.6	3.8			3		nw.	0	0	d. clouds	
Zanzibar, Africa	29.80	756.9			85.2	29.6	75	ne.	6.3	2.8			4		ne.	0	0	d. clouds	
Trichinopoly	29.58	751.3			90.0	32.2	43	sse.	2	0.9			0			0	0	blue sky	
ITALIAN.																			
Udine	29.68	753.9	30.09	764.3	57.4	14.1	87	s.	1.3	0.6			10			0.047	1.2		Prof. Giovanni Clodig.
Milan	29.57	751.0	30.08	764.1	61.7	16.5	54	se.	4.3	1.9			5	sw.		0	0		Prof. Schiaparelli.
Padua	29.95	760.8	30.06	763.6	62.1	16.7	56	s.	2.5	1.1			3	w.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.14	740.2	30.06	763.4	58.6	14.8	70	se.	4.3	1.9			6	e.		0.138	3.5		Prof. P. F. Denza.
Genoa	29.93	760.1	30.12	765.0	59.2	15.1	74	s.	6.9	3.1			8	s.		0	0		Prof. G. M. Garibaldi.
Mondovi	28.14	714.8	30.06	763.5	56.1	13.4	50	w.			2		2	sw.		0	0		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
ITALIAN.—Continued.																			
Pesaro	30.05	763.2	30.10	764.4	52.2	11.2	95	ne.	9.6	4.2	.....	.....	10	.....	.....	0	0	.....	Prof. Luigi Guidi.
Florence	29.86	758.4	30.11	764.9	60.4	15.8	60	nw.	.....	.....	2	.....	1	.....	.....	0	0	.....	Prof. Costantino Pitter.
Leghorn	29.97	761.2	30.06	763.4	62.4	16.9	69	sw.	0.7	0.3	.....	.....	3	.....	.....	0	0	.....	Prof. P. Monte.
Rome	29.95	760.7	30.12	765.1	65.1	18.4	52	wsw.	6.3	2.8	.....	.....	9	.....	.....	0	0	.....	Prof. P. S. Ferrari.
Lecce	29.86	758.5	30.11	764.9	66.2	19.0	43	sse.	6.3	2.8	.....	.....	1	se.	.....	0	0	.....	Prof. O. de Giorgi.
Cosenza	29.23	742.4	30.11	764.9	66.6	19.2	75	sse.	3.1	1.4	.....	.....	7	se.	.....	0	0	.....	Prof. D. Conti.
Cagliari	29.87	758.8	30.07	763.7	63.1	17.3	71	se.	.....	.....	4	.....	1	.....	.....	0.012	0.3	.....	Prof. A. Pacinotti.
Palermo	29.89	759.2	30.14	765.6	65.8	18.8	51	ne.	6.9	3.1	.....	.....	3	.....	.....	0	0	.....	Prof. G. Ciacciatore.
Syracuse	30.06	763.6	30.11	764.8	67.8	19.9	52	s.	11.9	5.3	.....	.....	1	s.	.....	0	0	.....	Prof. Vincenzo Guiliano.
Sub-series.																			
Naples, S. R	29.60	751.9	30.12	765.1	62.8	17.1	61	w.	3.8	1.7	.....	.....	7	sw.	.....	0	0	.....	Prof. T. Brioschi.
Stelvio	22.13	562.1	.....	.....	33.8	1.0	70	sw.	.....	.....	4	.....	8	.....	.....	0.122	3.1	covered	Prof. P. F. Denza.
Valdobbia	22.17	563.0	.....	.....	34.2	1.2	73	n.	.....	.....	6	.....	10	.....	.....	0	0	covered	Prof. P. F. Denza.
JAPANESE.																			
Aomori	29.92	759.9	29.96	761.0	36.8	2.7	85	calm	0	0	.....	0	7 s	.....	.....	0	0	fair	K. Ogawa.
Hakodate	29.96	761.0	29.97	761.2	32.7	0.4	89	ene.	3.6	1.6	.....	.....	10	.....	.....	0	0	covered	
Hiroshima, I. M. Obs'y	29.76	755.9	29.78	756.4	41.7	5.4	93	nne.	4.1	1.8	.....	.....	10 n	.....	.....	0.360	9.1	light rain	K. Sasaki.
Kanazawa	29.72	754.9	29.83	757 7	42.3	5.7	82	e.	6.3	2.8	.....	ck	10 n	.....	.....	0.720	18.3	light rain	S. Endo.
Kioto	29.55	750.6	29.72	754.9	48.7	9.3	92	n.	3.9	1.7	.....	.....	10 n	.....	.....	0.550	14.0	light rain	M. Tojima.
Kochi	29.68	753.9	29.70	754.4	51.1	10.6	96	w.	9.0	4.0	.....	.....	10 n	.....	.....	0.623	15.8	raining	
Nagasaki, I. M. Obs'y	29.62	752 3	29.83	757.7	49.0	9.4	88	nw.	2.4	1.1	.....	.....	10 n	.....	.....	0.100	2.5	raining	S. Takehayashi.
Niigata	29.82	757.4	29.86	758.4	43.0	6.1	80	ene.	3.2	1.4	.....	.....	10 n	.....	.....	0.480	12.2	raining	
Nobiru	29.94	760.5	29.95	760.7	41.1	5.1	70	sse.	9.0	4.0	.....	.....	10 s	.....	.....	0.670	17.0	overcast	H. Midzushina.
Sapporo	29.92	759.9	29.99	761.7	31.0	— 0.6	69	ne.	5.4	2.4	.....	.....	10	.....	.....	0.012	0.3	covered	
Tokei Obs'y, Yeddo	29.82	757.4	29.89	759.2	38.7	3.7	98	nne.	9.7	4.3	.....	.....	10 n	.....	.....	0.553	14.0	raining	The Staff.
Wakayama	29.65	753.1	29.71	754.6	46.5	8.1	92	w.	2.3	1.0	.....	.....	10 n	.....	.....	0.665	16.8	raining	Y. Kuwamuea.
MAURITIUS.																			
Mauritius Observatory	29.74	755.4	29.93	760 2	78.8	26.0	70	e.	13.	5.8	.....	5 c;cs	4 k;ks	w.	.....	0.098	2.5	cloudy	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.70	602.1	29.92	760.1	66.2	19.0	55	sw.	.....	.....	.....	0	0	.....	.....	0	0	clear	Vicente Fernandez.
Leon	24.41	619.9	30.14	765.5	55.2	12.8	73	nne.	.....	.....	1	0	5	.....	sw.	0	0	hazy	Prof. M. Leal.
Mazatlan	29.73	755.2	29.99	761.8	65.0	18.3	94	nnw.	0.9	0.4	.....	.....	10 n	.....	.....	0	0	covered	F. Quijano, C. E.
Mexico, Central Obs'y	23.11	587 0	30.19	766.7	54.0	12.2	65	ne.	0.4	0.2	.....	2	2	.....	.....	0	0	foggy	M. Tena, M. D.
Morelia	24.26	616.2	30.39	772.0	58.3	14.6	74	se.	.....	.....	2	1	2	s.	s.	0	0	½ cloudy	The Staff.
Pabellon, Aguascallentes	23.97	608.7	29.94	760.5	62.6	17.0	26	nne.	.....	.....	1	8	0	ssw.	.....	0	0	very cloudy	M. V. de Leon, M. E.
Puebla, Catholic Institute	23.44	595.3	30.27	768.9	49.1	9.5	65	calm	0	0	.....	0	1	.....	wsw.	0.035?	0.9?	clear	Prof. P. Spina.
San Luis Potosi	24.25	616.0	30.19	766.9	65.2	18.5	71	e.	.....	.....	1	.....	10	.....	e.	0	0	covered	G. Barroeta, M. D.
Vera Cruz	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Zacatecas	22.62	573.8	30.27	768.1	53.4	12.0	61	n.	8.2	3.6	.....	5	3	.....	s.	0.140	3.6	cloudy	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.77	756.1	29.77	756.1	47.8	8.8	.....	wsw.	.....	.....	5	.....	.....	.....	.....	0	0	.....	.....
Groningen	29.57	751.1	29.63	752.5	47.3	8.5	.....	sw.	.....	.....	6	.....	.....	.....	.....	0.047	1.2	.....	.....
Helder	29.62	752.3	29.62	752.3	45.3	7.4	.....	wsw.	.....	.....	6	.....	.....	.....	.....	0.059	1.5	.....	.....
Hellevoetsluis	29.72	754.9	29.72	754.9	48.4	9.1	77	wsw.	.....	.....	4	.....	.....	.....	.....	0	0	.....	.....
Utrecht	29.67	753.7	29.72	754.9	51.6	10.9	56	sw.	.....	.....	5	.....	8	.....	.....	0.043	1.1	very cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.13	739.8	29.19	741.4	34.2	1.2	92	se.	7	3	.....	.....	10	.....	.....	0.622	15.8	snowing	
Brono	29.17	740.9	29.21	741.9	41.5	5.3	60	calm	0	0	.....	.....	7	.....	.....	0	0	.....	.....
Christiania	29.18	741.1	29.32	744.8	46.9	8.3	69	ssw.	13	6	.....	.....	8	.....	.....	0	0	.....	.....
Gjesvær	29.28	743.7	29.30	744.3	27.0	— 2.8	.....	ese.	.....	.....	2	.....	10	.....	.....	.....	.....	.....	.....
Lodingen	29.20	741.7	29.25	742.9	34.3	1.3	78	n.	.....	.....	2	.....	9	.....	.....	0.031	0.8	.....	.....
PORTUGUESE.																			
Angra, Azores	.....	.....	.....	.....	55.8	13.2	60	ese.	4.9	2.2	.....	.....	9	.....	.....	0	0	.....	Dr. J. A. Sampaio.
Campo Major	28 98	736.1	29.98	761.4	59.9	15.5	52	e.	6.3	2.8	.....	.....	4	.....	.....	0.370	9.4	.....	Dr. A. M. R. dos Santos.
Funchal, Maderia	30.11	764.8	30.20	767.0	55.4	13.0	55	nw.	1.8	0 8	.....	.....	9	.....	.....	0.252	6.4	.....	Capt. D. A. de Cunha.
Lisbon, Observatory	29.62	752.3	29.98	761.4	58.3	14.6	59	ese.	13.0	5.8	.....	.....	7	.....	.....	0.134	3.4	.....	The Staff.
Ponta Delgada, Azores	30.49	774.5	30.56	776.3	59.0	15.0	48	ne.	13.0	5.8	.....	.....	4	.....	.....	0	0	.....	.....
Saint Paul de Loando	29.66	753.3	29.85	758.3	82.0	27.8	86	wsw.	1.3	0.6	.....	.....	3	se.	.....	0	0	.....	.....
Serra da Estrella	25.23	640.8	30.06	763.6	38.1	3.4	100	sse.	24.8	11.1	.....	.....	10	.....	.....	1.69	43.0	foggy	.....
RUSSIAN.																			
Akmolinski	29.15	740.4	30.31	769.9	18.0	— 7.8	94	sw.	31	14	.....	0	7 k;n	.....	.....	0.008	0.2	.....	Major K. Lasarew.
Archangel	29.58	751.2	29.60	751.7	29.5	— 1.4	88	s.	13	6	.....	.....	10	.....	.....	0	0	.....	Capt. Sselliwerstow.
Astrakhan	30.42	772.6	30.34	770.5	37.2	2.9	74	calm	0	0	.....	.....	9 k	.....	.....	0.043	1.1	.....	Capt. Wisganow.
Barnaul	30.00	762.1	30.54	775.7	27.3	— 2.6	68	calm	0	0	.....	.....	5	.....	.....	0	0	.....	Meteorological Obs'y.
Dorpat	29.54	750.2	29.78	756.3	56.7	13.7	59	s.	11	5	.....	0	0	.....	.....	0	0	.....	Observatory.
Ekaterinburg	28.93	734.9	29.95	760.8	20.7	— 6.3	63	w.	18	8	.....	.....	9	.....	.....	0	0	.....	Meteorological Obs'y.
Kasan	29.93	760.2	30.22	767.5	26.6	— 3.0	52	sw.	4	2	.....	.....	0	.....	.....	0	0	.....	Observatory.
Kertch	30.29	769.3	30.31	769.8	45.1	7.3	74	sse.	9	4	.....	0	0	.....	.....	0	0	.....	Lagorio & Sastyrex.
Kieff	29.49	749.0	30.12	765.1	55.2	12.9	37	se.	7	3	.....	0	0	.....	.....	0	0	.....	Observatory.
Lugan	30.10	764.5	30.31	769.8	43.3	6.3	46	sse.	9	4	.....	.....	7	.....	.....	0	0	.....	Meteorological Obs'y
Moscow	29.61	752.0	30.10	764.5	38.5	3.6	67	s.	4	2	.....	.....	10 8	.....	.....	0	0	.....	Meteorological Obs'y.
Nikolaiev	30.21	767.3	30.28	769.1	55.9	13.3	39	ssw.	9	4	.....	0	0	.....	.....	0	0	.....	Capt. Kurdakow.
Nikolaievsk, on the Amoor	30.36	771.1	30.45	773.3	14.4	— 9.8	89	nw.	4	2	.....	.....	10	.....	.....	0	0	.....	Lieut. Iwanow.
Pekin, China	30.10	764.5	30.24	768.1	45.1	7.3	29	calm	0	0	.....	0	1 k	.....	.....	0	0	.....	Physical Observatory
St. Petersburg	29.74	755.3	29.75	755.7	49.5	9.7	54	ssw.	20	9	.....	c	3 n	.....	.....	0	0	.....	Central Physical Obs
Tashkend, Laboratory	28.88	733.6	30.52	775.2	42.8	6.0	65	calm	0	0	.....	.....	2	.....	.....	0	0	.....	Observatory.
Tiflis	28.89	733.7	30.35	770.9	45.1	7.3	23	nnw.	9	4	.....	3 c	0	.....	.....	0	0	.....	Teich, A. M.
Vladivostok	30.03	762.8	30.10	764.5	26.4	— 3.1	66	calm	0	0	.....	0	4 k	.....	.....	0	0	.....	Physical Observatory
Warsaw	29.44	747.8	29.85	758.2	64.9	18.3	36	ssw.	16	7	.....	3 c	0	.....	.....	.....	.....	light clouds	
Wilna	29.50	749 2	29.91	759.7	59.0	15.0	45	s.	11	5	.....	.....	7	.....	.....	0	0	light clouds.	Astronomical Obs'y
Yeniseisk	30.15	765.7	30.45	773.4	28.8	— 1.8	57	s.	7	3	.....	.....	8	.....	.....	c	0	.....	Berg, Assistant.
SPANISH.																			M. O. Marks.
Barcelona, Met. Obs'y	29.96	761.0	30.06	763.6	60.8	16	76	se.	4.5	2.0	.....	.....	5	.....	.....	0	0	½ covered	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.06	763 5	30.12	765.0	64.4	18.0	61	ne.	1.8	0.8	.....	1	7	nw.	.....	0.122	3.1	almost cov'd	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.10	688.4	30.07	763.7	55.8	13.2	59	ne.	1.6	0.7	.....	0	6	.....	.....	0.028	0.7	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27.79	705.9	30.00	761.9	62.1	16.7	39	e.	10.5	4.7	.....	.....	9	.....	.....	0	0	almost cov.	The Staff.
Murcia, Met. Obs'y	29.86	758.5	30.02	762.4	63.9	17.7	71	ne.	3.6	1.6	.....	4	5	wnw.	.....	0.004	0.1	covered	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.21	742.0	30.13	765.2	51.6	10.9	84	n.	26.2	11.7	.....	.....	9	.....	.....	0.642	16.3	almost cov'd	R. Gil Vallanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I	30.02	762.4	30.08	764.1	69.2	20.7	85	calm	0	0	.....	0	0	.....	.....	0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.86	758.4	29.92	759.9	80.4	26.9	76	sw.	10.8	4.8	.....	0	k	.....	.....	0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.94	760.4	30.04	763.0	54.1	12.3	83	sse.	5.7	2.5	.....	.....	10	.....	se.	0.300	7.6	.....	Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	30.00	761.9	30.09	764.2	72.0	22.2	94	calm	0	0	.....	7 cs	5 k	w.	w.	0	0	d. clouds	Manuel Maeu.
Tuguegarao, Philippine Id's	29.83	757.7	29.97	761.2	77.9	25.5	76	nnw.	6.8	3.0	.....	0	4 ks	.....	nnw	0	0	cloudy	José L. Yrastorza.
SWEDISH																			
Haparanda	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Umea	29.37	745.9	29.41	746.9	32.4	0.2	81	w.	.....	.....	2	.....	2	.....	.....	0	0	.....	.....
Hernosand	29.36	745.8	29.41	747.1	39.6	4.2	80	s.	.....	.....	2	.....	9	.....	.....	0.370	9.4	.....	.....
Stockholm	29.34	745.1	29.39	746.4	43.0	6.1	72	ssw.	.....	.....	2	.....	10	.....	.....	0	0	.....	.....
Wisby	29.34	745.3	29.52	749.8	48.2	9.0	63	ssw.	.....	.....	2	.....	10	.....	.....	0	0	.....	.....
Sub-series.	29.53	750.1	29.59	751.6	55.0	12.8	61	sw.	.....	.....	4	.....	5	.....	.....	0	0	.....	.....
Upsala																			
SWISS.																			
Geneva	29.38	746.3	29.47	748.5	51.4	10.8	65	s.	15.4	6.9	.....	.....	8	sw	sw.	0.083	2.1	.....	S. G. Fineman.
	28.61	726.7	30.01	762.3	62.4	16.9	34	s.	.....	.....	4	.....	.....	.....	.....	0	0	cloudy	The Observatory

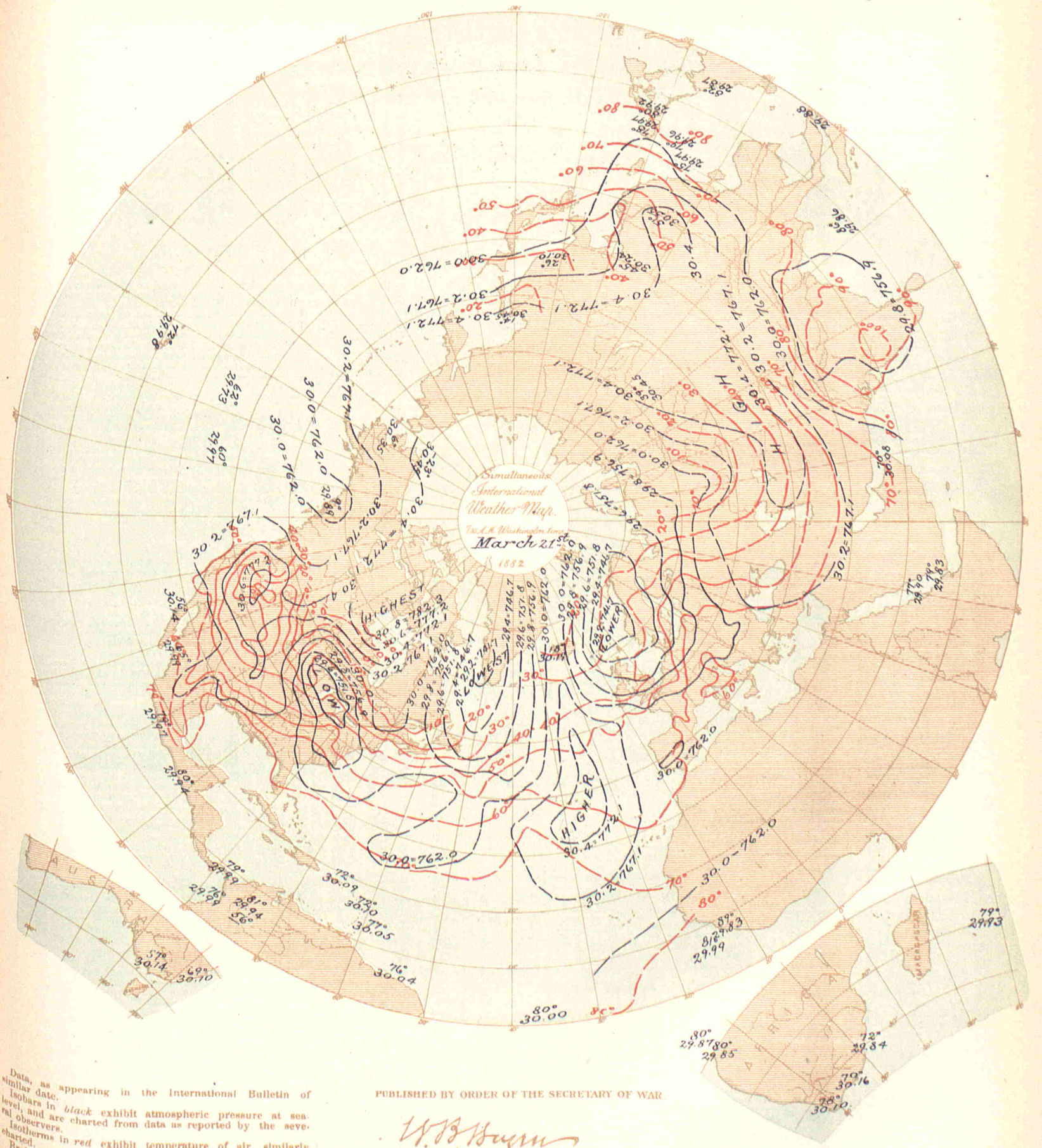
STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
TURKISH.																			
Constantinople	.....	.....	30.16	766.0	63.1	17.3	30	ene.	4	2.0	.....	.....	0	.....	.....	0	0	.....	The Observatory.
Valona	.....	.....	30.19	766.9	65.8	18.8	.....	sw.	.....	.....	1	.....	5	.....	.....	0	0	cloudy	A. Bertrand.
Sub-sertes.																			
Beirut, Lee Obs'y, Syria	.....	.....	30.16	766.1	64.9	18.3	73	n.	.....	.....	1	1 c	0	.....	.....	0	0	.....	Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	29.79	756.7	29.88	758.9	37	2.8	73	n.	8	3.6	.....	.....	10 s	.....	.....	0	0	cloudy	J. O. Barnes.
Alpena, Michigan	28.91	734.3	29.61	752.1	27	— 2.8	88	e.	33	14.8	.....	.....	10 n	.....	.....	0.03	0.8	light snow...	Jas. J. Fitzgerald.
Atlanta, Georgia	28.80	731.5	30.01	762.2	62.0	16.7	87	w.	14	6.3	.....	.....	10 n	.....	calm	0.02	0.5	light rain....	H. Hall.
Atlantic City, New Jersey	29.72	754.9	29.73	755.1	41.3	5.2	100	se.	8	3.6	.....	.....	10 n	.....	.....	0.19	4.8	light rain....	Jas. M. Watson.
Augusta, Georgia	29.73	755.1	29.93	760.2	69.8	21.0	66	sw.	7	3.1	.....	2 c	0	.....	.....	0	0	clear.....	John Healy.
Baltimore, Maryland	29.71	754.6	29.76	755.9	44	6.7	93	e.	2	0.9	.....	.....	10 n	.....	e.	0.20	5.1	light rain....	Robert Seyboth.
Barnegat, New Jersey	29.73	755.1	29.75	755.6	41.0	5.0	100	e.	6	2.7	.....	.....	10n;fog	.....	.....	0.25	6.3	light rain....	Chas. F. Merritt.
Bismarck, Dakota	28.31	719.1	30.23	767.8	— 2	-18.9	100	nw.	26	11.6	.....	.....	10 n	.....	.....	0.10	2.5	light snow..	Cyrus Cramer.
Boise City, Idaho	27.79	705.9	30.71	780.0	24	— 4.4	88	se.	6	2.7	.....	5 cs	0	calm	.....	0	0	fair	B. E. Light.
Boston, Massachusetts	29.74	755.4	29.90	759.4	36.0	2.2	61	ne.	16	7.2	.....	.....	10 s	.....	.....	0	0	cloudy	O. B. Cole.
Brownsville, Texas	30.00	762.0	30.05	763.3	75	23.9	90	calm	0	0	.....	9 ck	0	.....	.....	0	0	cloudy.....	J. C. Galloway.
Buffalo, New York	28.86	733.0	29.65	753.1	31	— 0.6	88	ne.	22	9.8	.....	.....	10n;fog	.....	ne.	0.09	2.3	light rain....	Wm. Finn.
Burlington, Vermont	29.66	753.4	29.97	761.2	21.3	— 5.9	57	n.	13	5.8	.....	.....	10 s	.....	n.	0	0	cloudy	G. O. Schaeffer.
Cairo, Illinois	29.75	755.6	30.17	766.3	42.8	6.0	54	nw.	12	5.4	.....	0	0	.....	.....	0.25	6.3	clear.....	W. H. Ray.
Campo, California	27.56	700.0	30.17	766.3	47.5	8.6	32	e.	1	0.4	.....	0	0	.....	.....	0	0	clear.....	W. H. Clendenon.
Camp Thomas, Arizona	27.40	695.9	30.18	766.6	38.5	3.6	77	se.	.....	.....	1	0	0	.....	.....	0	0	clear.....	J. T. Fitzgerald.
Cape Henry, Virginia	29.70	754.4	29.72	754.9	48	8.9	93	se.	5	2.2	.....	.....	fg.	.....	.....	0.03	0.8	dense fog....	J. E. Lanouette.
Cape May, New Jersey	29.70	754.4	29.72	754.9	45	7.2	83	e.	3	1.3	.....	.....	10 n	.....	e.	0.11	2.8	light rain....	W. Bolten.
Castroville, Texas	29.37	746.0	30.20	767.1	57	13.9	69	nw.	12	5.4	.....	.....	10 s	.....	ne.	0	0	cloudy	T. Jones.
Cedar Keys, Florida	30.04	763.0	30.06	763.5	69	20.6	90	sw.	3	1.3	.....	0	0	.....	.....	0	0	clear.....	F. W. Mixer.
Champaign, Illinois	28.96	735.6	29.82	757.4	31.8	— 0.1	60	sw.	31	13.9	.....	0	5 k	.....	.....	0.63	16.0	fair	L. A. Welsh.
Charleston, S. Carolina	29.86	758.4	29.92	760.0	66	18.9	73	sw.	7	3.1	.....	9 c	0	sw.	.....	0	0	cloudy	J. H. Smith.
Charlotte, N. Carolina	28.90	734.0	29.78	756.4	63.0	17.2	73	sw.	12	5.4	.....	10 cs	hz.	sw.	.....	0	0	cloudy	D. O. Donoghue.
Chattanooga, Tennessee	29.13	739.9	29.98	761.5	59.0	15.0	70	nw.	20	8.9	.....	.....	10 ks	.....	nw.	0.22	5.6	cloudy	B. L. Goulding.
Cheyenne, Wyoming	24.14	613.1	30.32	770.1	19.4	— 7.0	47	nw.	28	12.5	.....	0	0	.....	.....	0	0	clear.....	E. McGovern.
Chicago, Illinois	28.90	734.0	29.64	752.8	27.1	— 2.7	88	w.	25	11.2	.....	7 k	0	w.	.....	0.36	9.1	fair.....	J. Mitchell.
Chincoteague, Virginia	29.70	754.4	29.72	754.9	42	5.6	100	e.	4	1.8	.....	.....	fg.	.....	.....	0.03	0.8	dense fog....	F. C. Pratz.
Cincinnati, Ohio	29.16	740.7	29.85	758.2	46.1	7.8	47	w.	15	6.7	.....	0	0	.....	.....	2.43	61.7	clear.....	R. B. Watkins.
Cleveland, Ohio	28.82	732.0	29.60	751.8	44.3	6.8	93	w.	21	9.4	.....	0	5 s	.....	w.	0.56	14.2	fair.....	J. B. Newlin.
Coleman City, Texas	28.48	723.4	30.33	770.4	41	5.0	59	n.	20	8.9	.....	0	0	.....	.....	0.11	2.8	clear.....	L. Dorman.
Columbus, Ohio	28.81	731.8	29.70	754.4	47	8.3	68	sw.	24	10.7	.....	0	6 ks	.....	w	1.96	49.8	fair.....	D. Cuthbertson.
Concho, Texas	28.36	720.3	30.32	770.1	41	5.0	59	n.	10	4.5	.....	0	0	.....	.....	0.02	0.5	clear.....	W. W. McConihe.
Davenport, Iowa	29.12	739.6	29.81	757.2	22	— 5.6	73	w.	28	12.5	.....	4 k	4 s	w.	w.	0.02	0.5	cloudy.....	R. R. Martin.
Dayton, Washington T'y	28.57	725.7	30.38	771.6	37	2.8	56	ne.	1	0.4	.....	0	3 k	.....	.....	0	0	clear.....	H. Clifford.
Dendwood, Dakota	25.46	646.7	30.30	769.6	21	— 6.1	87	sw.	6	2.7	.....	2 cs	0	w.	.....	0	0	clear.....	G. W. Scott.
Decatur, Texas	.....	.....	.....	.....	54	12.2	67	n.	9	4.0	.....	0	0	.....	.....	0.04	1.0	clear.....	D. J. Carr.
Delaware Breakwater, Del.	29.70	754.4	29.72	754.9	41	5.0	100	se.	13	5.8	.....	.....	10n;fg	.....	se.	0.21	5.3	light rain....	A. Schneider.
Denison, Texas	29.52	749.8	30.35	770.9	43.0	6.1	51	n.	4	1.8	.....	0	0	.....	.....	0	0	clear.....	J. McGlone.
Denver, Colorado	24.95	633.7	30.39	771.9	24.5	— 4.2	51	s.	3	1.3	.....	0	0	.....	.....	0	0	clear.....	F. M. Neal.
Des Moines, Iowa	29.01	736.8	29.97	761.2	19	— 7.2	70	nw.	22	9.8	.....	.....	10 s	.....	nw.	0.01	0.3	cloudy	F. W. Conrad.
Detroit, Michigan	28.79	731.3	29.54	750 3	41.2	5.1	92	sw.	9	4.0	.....	.....	10 n	.....	sw.	0.31	7.9	light rain....	C. F. R. Wappenhans.
Dodge City, Kansas	27.71	703.8	30.44	773.2	26.5	— 3.1	76	nw.	17	7.6	.....	0	0	.....	.....	c	0	clear.....	E. A. Thomas.
Dubuque, Iowa	28.92	734.6	29.67	753.6	19.3	— 7.1	70	w.	17	7.6	.....	.....	10 n	.....	w.	0.08	2.0	light snow..	J. Harvey Smith.
Duluth, Minnesota	28.91	734.3	29.65	753.1	23	— 5.0	100	ne.	21	9.4	.....	.....	10 n	.....	ne.	1.14	29.0	heavy snow.	N. B. Conger.
Eagle Pass, Texas	29.32	744.7	30.14	765.5	64.1	17.8	93	nw.	7	3.1	.....	.....	10 s	.....	n.	0	0	cloudy	F. Belford.
Eagle Rock, Idaho	25.69	652.5	30.56	776.2	2	—16.7	75	n.	2	0.9	.....	0	0	.....	.....	0	0	clear.....	J. M. Clifford.
Eastport, Maine	29.89	759.2	29.96	761.0	20.5	— 6.4	57	n.	11	4.9	.....	hz	0	.....	.....	0	0	clear.....	J. H. Melton.
El Paso, Texas	26.47	672.3	30.27	768.8	41	5.0	27	e.	6	2.7	.....	0	0	.....	.....	0	0	clear.....	J. F. Marshall.
Erie, Pennsylvania	28.79	731.3	29.56	750.8	38	3.3	100	ne.	7	3.1	.....	.....	10 n	.....	.....	0.41	10.4	light rain....	R. H. Paxton.
Escanaba, Michigan	28.82	732.0	29.53	750.0	23	— 5.0	100	ne.	25	11.2	.....	.....	10 n	.....	ne.	0.55	14.0	heavy snow	C. Dill.
Florence, Arizona	28.66	728.0	30.23	767.8	34.3	1.3	71	calm	0	0	.....	0	0	.....	.....	0	0	clear.....	R. R. Herman.
Fort Apache, Arizona	25.22	640.6	30.24	768.1	28	— 2.2	51	ne.	3	1.3	.....	0	0	.....	.....	0	0	clear.....	W. O. Barnes.
Fort Assinnaboine, Montana	27.36	694.9	30.36	771.1	11	—11.7	64	sw.	6	2.7	.....	0	0	.....	.....	0	0	clear.....	B. O. Lenoir.
Fort Bennett, Dakota	28.54	724.9	30.24	768.1	6	—14.4	76	nw.	40	17.9	.....	0	0	.....	.....	0.02	0.5	clear.....	T. Gibson.
Fort Benton, Montana	27.41	696.2	30.39	771.9	28	— 2.2	67	w.	14	6.3	.....	0	3 ks	.....	calm	0	0	clear.....	S. Wheaton.
Fort Buford, Dakota	28.31	719.1	30.45	773.4	— 5	—20.6	65	w.	8	3.6	.....	0	0	.....	.....	0	0	clear.....	A. H. Bell.
Fort Custer, Montana	27.08	687.8	30.41	772.4	25	— 3.9	64	w.	4	1.8	.....	0	4 s	.....	calm	0	0	fair	V. Verge.
Fort Davis, Texas	25.39	644.9	30.27	768.8	36	2.2	53	n.	12	5.4	.....	0	0	.....	.....	0	0	clear.....	J. Williams.
Fort Elliott, Texas	27.50	698.5	30.32	770.1	32	0.0	43	n.	24	10.7	.....	0	0	.....	.....	0	0	clear.....	W. J. Cundall.
Fort Gibson, Indian T'y	29.73	755 1	30.32	770.1	36.0	2.2	69	n.	2	0.9	.....	0	0	.....	.....	0.05	1.3	clear.....	J. B. Campbell.
Fort Grant, Arizona	25.39	644.9	30.22	767.6	40	4.4	33	e.	3	1.3	.....	0	0	.....	.....	0	0	clear.....	T. J. Macgowan.
Fort Griffin, Texas	29.06	738.1	30.40	772.1	40	4.4	65	n.	5	2.2	.....	0	0	.....	.....	0.20	5.1	clear.....	G. H. Hayne.
Fort Keogh, Montana	27.74	704.6	30.40	772.1	12	—11.1	64	nw.	1	0.4	.....	1 c	0	.....	.....	0	0	clear.....	W. B. Stockman.
Fort Macon, North Carolina	29.80	756.9	29.81	757.2	60	15.6	93	sw.	15	6.7	.....	9 c;cs	hz.	sw;c	calm	0.01	0.3	cloudy	L. Leonardy.
Fort McKavett, Texas	28.02	711.7	30.34	770.6	47.3	8.5	52	ne.	19	8.5	.....	0	0	.....	.....	0.06	1.5	clear.....	J. E. Thatcher.
Fort Missoula, Montana	27.06	687.3	30.44	773.2	13	—10.6	66	n.	1	0.4	.....	0	0	.....	.....	0	0	clear.....	J. H. Jones.
Fort St. Michaels, Alaska	30.32	770.1	30.35	770.9	6	—14.4	100	n.	5	2.2	.....	0	0	.....	.....	0	0	clear.....	A. P. Leavitt.
Fort Shaw, Montana	26.55	674.4	30.35	770.9	29	— 1.7	67	sw.	31	13.9	.....	9 cs	0	.....	.....	0	0	cloudy	A. L. Mathews.
Fort Sill, Indian Territory	29.12	739.6	30.40	772.1	34.7	1.5	67	nw.	2	0.9	.....	0	0	.....	.....	0	0	clear.....	T. Cleary.
Fort Stevenson, Dakota	28.30	718.8	30.28	769.1	— 8	—22.2	61	nw.	28	12.5	.....	0	0	.....	.....	Inap.	Inap.	clear.....	W. Burrows.
Fort Verde, Arizona	.....	.....	.....	.....	35.6	2.0	49	n.	.....	.....	2	0	0	.....	.....	0	0	clear.....	D. Brooks.
Fort Washakie, Wyoming	24.70	627.4	.....	.....	18.1	— 7.7	53	nw.	15	6.7	.....	0	0	.....	.....	0	0	clear.....	T. M. Ambler.
Fredericksburg, Texas	28.46	722.9	30.22	767.6	50	10.0	58	n.	12	5.4	.....	10 cs	0	.....	.....	0.02	0.5	cloudy	H. S. Miles.
Galveston, Texas	29.99	761.7	30.03	762.7	72	22.2	95	nw.	10	4.5	.....	.....	10 ks	.....	n.	0.34	8.6	cloudy	E. O'C. MacInorney.
Grand Haven, Michigan	28.81	731.8	29.51	749.5	33.5	0.8	88	sw.	32	14.3	.....	.....	10 n	.....	sw.	0.39	9.9	light snow..	W. A. Reid.
Hatteras, North Carolina	29.75	755.6	29.77	756.1	56	13.3	100	sw.	26	11.6	.....	3 c	fg.	.....	.....	0.05	1.3	clear.....	R. M. Crawford.
Helena, Montana	26.03	661.2	30.40	772.1	27	— 2.8	56	w.	3	1.3	.....	0	0	.....	.....	0	0	clear.....	N. C. Smith.
Henrietta, Texas	29.43	747.5	30.47	773.9	39	3.9	65	nw.	8	3.6	.....	0	0	.....	.....	0.03	0.8	clear.....	J. W. Byram.
Huron, Dakota	28.63	727.2	30.11	764.8	7	—13.9	63	nw.	36	16.1	.....	.....	10 s	.....	.....	0.19	4.8	cloudy .	S. W. Glenn.
Indianapolis, Indiana	28.99	736.3	29.83	757.7	35	1.7	64	w.	14	6.3	.....	0	0	.....	.....	2.60	66.0	clear.....	O. Schutze
Indianola, Texas	30.01	762.2	30.04	763.0	73.6	23.1	97	nw.	10	4.5	.....	3 ck	4 ks	sw.	n.	0	0	fair.....	I. A. Reed.
Jacksboro, Texas	29.17	740.9	30.38	771.6	40	4.4	65	n.	6	2.7	.....	0	0	.....	.....	0.05	1.3	clear.....	J. P. Sherry.
Jacksonville, Florida	30.01	762.2	30.06	763.5	68	20.0	78	sw.	16	7.2	.....	.....	10 s	.....	sw.	0	0	cloudy.....	J. W. Smith.
Keokuk, Iowa	29.23	742.4	29.92	760.0	27.5	— 2.5	69	w.	12	5.4	.....	10 k	0	w.	.....	0.31	7.9	cloudy.....	F. Z. Gosewisch
Key West, Florida	30.09	764.3	30.11	764.8	74.0	23.3	76	s.	7	3.1	.....	0	4 k	.....	s.	0	0	fair.....	L. M. Melbourne.
Kittyhawk, North Carolina	29.74	755.4	29.76	755.9	52	11.1	100	sw.	7	3.1	.....	3 c	2 s	nw.	nw.	0.05	1.3	fair.....	E. A. Beals.
Knoxville, Tennessee	28.86	733.0	29.92	760.0	58	14.4	94	sw.	10	4.5	.....	.....	10 n	.....	sw.	0.17	4.3	light rain....	J. A. Cody.
La Crosse, Wisconsin	28.74	730.0	29.56	750.8	20	— 6.7	84	w.	14	6.3	.....	.....	10 n	.....	.....	0.17	4.3	light snow..	S. C. Emery.
La Mesilla, New Mexico	26.19	665.2	30.14	765.5	39.3	4.1	23	n.	8	3.6	...	0	0	.....	.....	2	0	clear.....	N. D. Lane.
Leavenworth, Kansas	29.26	743.2	30.20	767.1	33	0.6	60	nw.	9	4.0	.....	0	0	.....	.....	0	0	clear.....	A. W. Browne.
Lewiston, Idaho	29.59	751.6	30.45	773.4	40	4.4	43	se.	4	1.8	.....	0	2 s	.....	.....	0	0	clear.....	W. Blake.
Little Rock, Arkansas	29.94	760.5	30.26	768.6	47	8.3	63	nw.	5	2.2	.....	0	0	.....	.....	0.80	20.3	clear.....	M. F. Burrows.
Los Angeles, California	29.86	758.4	30.26	768.6	45.1	7.3	76	nw.	8	3.6	.....	0	0	.....	.....	0	0	clear.....	E. F. Kubel.
Louisville, Kentucky	29.37	746 0	29.96	761.0	42	5.6	82	w.	18	8.0	.....	0	1 s	.....	.....	0.58	14.7	clear.....	H. C. Smith.
Lynchburg, Virginia	29.04	737.6	29.76	755.9	50.0	10.0	90	s.	1	0.4	.....	.....	10 s	.....	w.	0.03	0.8	cloudy	T. H. Breen.
Madison, Wisconsin	28.49	723.6	29.56	750.8	20	— 6.7	84	w.	25	11.2	.....	.....	10 n	.....	calm	0.76	19.3	light snow..	C. A. Shaw.
Marquette, Michigan	28.88	733.5	29.64	752.8	25	— 3.9	100	e.	30	13.4	.....	.....	10 n	.....	calm	0.99	25.1	heavy snow	I. Gilligan.
Mason, Texas	28.62	726.9	30.31	769.9	51	10.6	80	n.	15	6.7	.....	.....	10 s	.....	n.	0.03	0.8	cloudy.....	A. M. Wilson.
Memphis, Tennessee	29.85	758.2	30.20	767.1	47	8.3	56	w.	9	4.0	.....	1 c	0	sw.	.....	0.44	11.2	clear.....	D. T. Flannery.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–01	0–10	0–10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Milwaukee, Wisconsin	28.72	729.5	29.51	749.5	25	— 3.9	88	sw.	38	17.0			10 n		sw.	0.65	16.5	light snow..	W. Line.
Mobile, Alabama	29.99	761.7	30.03	762.7	70	21.1	93	sw.	1	0.4		2 c	0	w.		0	0	clear	J. D. Paxton.
Montgomery, Alabama	29.77	756.1	30.01	762.2	64.6	18.1	79	nw.	6	2.7			10 s		w.	0.03	0.8	cloudy	J. B. McLaughlin.
Moorhead, Minnesota	28.80	731.5	29.88	758.9	15	— 9.4	83	n.	24	10.7			10 n		n.	0.63	16.0	light snow..	H. Bessant.
Morgantown, W. Virginia	28.59	726.2	29.65	753.1	55.0	12.8	86	sw.	4	1.8			10 s		sw.	1.65	41.9	cloudy	J. Sprigg, jr.
Mt. Washington, N. H.	23.43	595.1	29.95	760.7	10.0	—12.2	50	nw.	44	19.7			10 s		nw.	0	0	cloudy	J. G. Linsley.
Nashville, Tennessee	29.54	750.3	30.10	764.5	47.5	8.6	46	nw.	11	4.9		0	7 ks		sw.	0.23	5.8	fair	L. A. Jesunofsky.
New Haven, Connecticut	29.72	754.9	29.84	757.9	38	3.3	72	ne.	10	4.5			10 n		ne.	0.05	1.3	light snow..	J. H. Sherman.
New London, Connecticut	29.80	756.9	29.84	757.9	42	5.6	100	n.	5	2.2			10 n		n.	inap.	inap.	light snow..	J. G. Lynch.
New Orleans, Louisiana	29.97	761.2	30.03	762.7	72.0	22.2	90	sw.	5	2.2		6c;cs	sk.	w; sw		0	0	fair	A. J. Armstrong.
Newport, Rhode Island	29.79	756.7	29.84	757.9	40.8	4.9	63	ne.	7	3.1			10 s		calm	0	0	cloudy	W. McGillivray.
New River, N. Carolina					58	14.4	94	sw.			2	3 c	5 s	w.		0.02	0.5	cloudy	C. C. Corbin.
New Shoreham, Rhode I'd.	29.79	756.7	29.82	757.4	39.0	3.9	89	ne.	13	5.8			10 n		ne.	0.01	0.3	light rain ..	W. Davis.
New York, New York	29.61	752.1	29.79	756.7	42	5.6	100	e.	8	3.6			10 n			0.21	5.3	light rain	E. B. Garriott.
Norfolk, Virginia	29.69	754.1	29.72	754.9	51	10.6	93	s.	5	2.2			fg.			0	0	dense fog	J. T. Elker.
North Platte, Nebraska	27 28	692.9	30.34	770.6	24.6	— 4.1	72	nw.	20	8.9		0	0			0	0	clear	E. F. Brady.
Olympia, Washington T'y	30.32	770.1	30.36	771.1	38.0	3.3	82	s.	4	1.8		0	0			0.01	0.3	clear	J. Dascomb.
Omaha, Nebraska	28.90	734.0	30.15	765.8	21.5	— 5.8	69	nw.	24	10.7		0	0			0.01	0.3	clear	A. Pollak.
Ooglaamie, Pt. Barrow, Alas.	30.43	772.9	30.45	773.4	—23.2	—30.7	57	ssw.	3	1.3		0	0			0	0	clear	P. H. Ray.
Oswego, New York	29.45	748.0	29.79	756.7	32.0	0.0	72	ne.	16	7.2			10 s			0	0	cloudy	S. W. Beall.
Palestine, Texas	29.87	758.7	30.44	773.2	51	10.6	40	n.	20	8.9		0	0			0.07	1.8	clear	L. M. Pindell.
Pensacola, Florida	30.00	762.0	30.03	762.7	70.3	21.3	93	sw.	8	3.6		2 cs	0			0	0	clear	M. McGauran.
Philadelphia, Pa	29.68	753.9	29.78	756.4	45	7.2	83	se.	3	1.3			10 n		se.	0.33	8.4	light rain	T. F. Townsend.
Pike's Peak, Colorado	17.62	447.5	30.21	767.3	— 3	—19.4	79	nw.	48	21.5		0	0			0	0	clear	L. M. Dey.
Ploche, Nevada	24.38	619.2	30.52	775.2	19	— 7.2	48	nw.	8	3.6		0	0			0	0	clear	C. K. Kitchel.
Pittsburg, Pennsylvania	28.77	730.7	29.62	752.3	50.0	10.0	89	s.	6	2.7			10 n		s.	0.76	19.3	light rain	J. H. Bryce.
Port Eads, Louisiana	30.04	763.0	30.05	763.3	70.1	21.2	97	sw.	8	3.6		1 c	hz.			0.01	0.3	clear	H. G. Christian.
Port Huron, Michigan	28.77	730.7	29.49	749.0	34.0	1.1	100	s.	9	4.0			10 n			0.36	9.1	light rain	W. O. Bailey.
Portland, Maine	29.89	759.2	29.94	760.5	36.0	2.2	53	ne.	9	4.0			10 s		calm	0	0	cloudy	D. C. Murphy.
Portland, Oregon	30.31	769.9	30.38	771.6	32.0	0.0	88	calm	0	0		0	2 s			0.02	0.5	clear	M. L. Hearne.
Portsmouth, N. Carolina					59	15.0	75	sw.	20	8.9		hz.	hz.	calm	calm	0.04	1.0	light haze	F. P. Chaffee.
Prescott, Arizona	24.98	634.5	30.32	770.1	23	— 5.0	44	ne.	1	0.4		0	0			0	0	clear	J. Mc N. Wright.
Provincetown, Mass	29.86	758.4	29.89	759.2	37	2.8	82	e.	12	5.4			10 s			0	0	cloudy	P. T. Jenkins.
Punta Rassa, Florida	30.09	764.3	30.10	764.5	67	19.4	90	e.	6	2.7		0	lks;hs		calm	0	0	clear	W. J. Evans.
Red Bluff, California	29.97	761.2	30.35	770.9	39.1	3.9	86	e.	1	0.4		0	0			0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.91	759.7	30.15	765.8	76	24.4	79	e.	4	1.8			8 s		e.	0	0	cloudy	W. H. Taylor.
Rochester, New York	29.05	737.9	29.75	755.6	31	— 0.6	78	e.	22	9.8			10 ks		e.	0.01	0.3	threatening	A. T. Sherwood.
Roseburg, Oregon	29.84	757.9	30.40	772.1	33.9	1.1	88	e.	2	0.9			10 s			0	0	cloudy	J. J. Nanry.
Sacramento, California	30.24	768.1	30.32	770.1	42.8	6.0	74	se.	5	2.2		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.41	747.0	30.04	763.0	35.0	1.7	79	w.	21	9.4		0	0			inap.	inap.	clear	J. H. Webber.
St. Paul, Minnesota	28.61	726.7	29.53	750.0	25.0	— 3.9	88	w.	6	2.7			10 n		w.	1.00	25.4	light snow..	O. S. M. Cone.
St. Vincent, Minnesota	29.05	737.9	29.99	761.7	12	—11.1	100	n.	24	10.7			10 n		calm	0.29	7.4	light snow..	G. Kingsbury.
Salt Lake City, Utah	26.10	662.9	30.62	777.7	21	— 6.1	48	se.	1	0.4		0	0			0	0	clear	J. Craig.
San Antonio, Texas	29.59	751.6	30.30	769.6	55.1	12.8	55	ne.	18	8.0			10 s		ne.	0	0	cloudy	E. Lane.
San Diego, California	30.09	764.3	30.16	766.1	46.2	7.9	89	n.	1	0.4		0	0			0	0	clear	A. C. Dobbins.
Sandusky, Ohio	28.87	733.3	29.59	751.6	46.2	7.9	83	w.	25	11.2			10 s		w.	0.95	24.1	cloudy	M. H. Perry.
Sandy Hook, New Jersey	29.75	755.6	29.79	756.7	41.0	5.0	92	e.	8	3.6			10 n		calm	0.21	5.3	light rain	B. A. Blundon.
San Francisco, California	30.25	768.3	30.32	770.1	46	7.8	76	ne.	7	3.1		0	0			0	0	clear	N. Gorom.
Santa Fé, New Mexico	23.40	594.3	30.38	771.6	21	— 6.1	64	n.	7	3.1		0	0			0	0	clear	H. N. Jones.
Savannah, Georgia	29.87	758.7	29.96	761.0	68.5	20.3	62	sw.	9	4.0		3 c	hz.	w.		0	0	clear	H. M. Ford.
Shreveport, Louisiana	30.01	762.2	30.26	768.6	53	11.7	48	n.	10	4.5		4 c	2 s	n.	n.	0.03	0.8	fair	E. N. Meekins.
Silver City, New Mexico	24.40	619.7	30.18	766.6	35	1.7	37	w.	3	1.3		0	0			0	0	clear	J. B. Wallace.
Sitka, Alaska	29.82	757.4	29.89	759.2	8.5	—13.1	73	e.	14	6.3		0	0			0	0	clear	J. J. McLean.
Smithville, North Carolina	29.82	757.4	29.86	758.4	60	15.6	87	w.	9	4.0		5 c	0	w.		0	0	fair	J. C. Rickli.
Spokane Falls, Wash. Ter.	28.20	718.6	30.42	772.7	30.5	— 0.8	83	sw.	5	2.2		1 k	0			0	0	clear	D. Moore.
Springfield, Illinois	29.18	741.2	29.00	759.4	34	1.1	60	w.	28	12.5		0	1 k		w.	0.45	11.4	clear	T. B. Jennings.
Springfield, Massachusetts	29.75	755.6	29.89	759.2	38.8	3.8	36	ne.	8	3.6			10 s			0	0	cloudy	T. S. Outram.
Springfield, Mo	28.74	730.0	30.30	769.6	31.5	— 0.3	74	w.	10	4.5		0	0			0.06	1.5	clear	J. B. Marbury.
Stockton, Texas	27.27	692.6	30.35	770.9	41.0	5.0	59	n.	4	1.8		0	0			0	0	clear	J. O'Dowd.
Thatcher's Island, Mass	29.82	757.4	29.88	758.9	38.0	3.3	82	e.	17	7.6			10 s			0	0	cloudy	G. Liebmann.
Toledo, Ohio	28.86	733.0	29.59	751.6	41.2	5.1	82	w.	30	13.4		0	8 k		w.	0.52	13.2	clearing	A. Buell.
Tucson, Arizona	27.71	703.8	30.17	766.3	43	6.1	76	sw.	5	2.2		0	0			0	0	clear	J. L. Whiteside.
Umatilla, Oregon	30.05	763.3	30.43	772.9	34.7	1.5	70	se.	5	2.2			10 s			0	0	cloudy	R. P. Sibley.
Uvalde, Texas	29.15	740.4	30.13	765.3	61	16.1	72	n.	15	6.7			10 s		n.	0	0	cloudy	E. C. Imlay.
Vicksburg, Mississippi	29.90	759.4	30.16	766.1	57	13.9	57	nw.	16	7.2		0	9 s		nw.	1.42	36.1	cloudy	T. J. Kenan.
Visalia, California	29.03	760.2	30.31	769.9	39.4	4.1	87	n.	1	0.4		0	0			0	0	clear	J. T. Cochran.
Washington, D. C.	29.63	752.6	29.75	755.6	42.5	5.8	100	e.	3	1.3			ion;fg			0.19	4.8	light rain	B. M. Purssell.
West Las Animas, Colorado	26.34	669.0	30.42	772.7	9.5	—12.5	68	nw.	5	2.2		0	0			0	0	clear	J. Grover.
Wickenburg, Arizona					34.5	1.4	60	calm			0	0	0			0	0	clear	H. A. Kremp.
Williamsport, Pa	29.12	739.6	29.75	755.6	45	7.2	76	s.	4	1.8			10 n		s.	0.26	6.6	light rain	B. F. Hough.
Wilmington, N. Carolina	29.77	756.1	29.83	757.7	65	18.3	73	sw.	14	6.3		5 c;hs	0	w;0		0	0	fair	S. A. Haney.
Winnemucca, Nevada	25.99	660.1	30.49	774 4	18	— 7.8	70	ne.	10	4.5		0	0			0	0	clear	J. R. Williams.
Yankton, Dakota	28.72	729.5	30.11	764.8	15	— 9.4	67	n.	25	11.2		0	0			0.08	0.3	clear	J. H. Attfield.
Yuma, Arizona	30.03	762.7	30.18	766.6	57.0	13.9	13	ne.	16	7.2		0	0			0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.04	559.8			56.0	13.3	74	nw.	2	0.9		4 k	2 s	nw.	nw	0	0	fair	Joaquin Gomez.
Bridgetown, Barbados, W.I.	30.04	763.0	30.05	763.3	77	25.0	81	e.				5 k	5 ks	e.	e.	0	0	fair	J. A. Racker.
Buenaventura, U. S. C.	29.97	761.2	29.99	761.7	76	24.4	95	s.	4	1.8			10 n		s.	1.80	45.7	raining	J. I. Plume.
Guadeloupe, W. I.	29.98	761.5	30.00	762.0	72	22.2	87	e.				hz.	5 ks			0	0	hazy	B. Bigar.
Havana, Cuba, W. I.	30.08	764.0	30.13	765.3	73	22.8	76	se.	1.2	0.5		0	0			0	0	clear	A. Van Caneghem.
Kingston, Jamaica, W. I.	30.06	763 5	30.07	763.8	71.7	22.1	82	n.	1	0.4		0	1 s		e.	0	0		Robert Johnston.
Navassa	30.10	764.5	30.18	766.6	75.5	24.2	74	ne.	17	7.6		2 ck	5 s	e.	ne.	0	0		F. M. Everett.
Paramaribo, S. A	30.04	763.0	30.04	763.0	75.5	24.2	93	ne.			3		10 n	ne.		1.110	28.2	raining	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.48	748.8	29.94	760.5	81	27.2	78	n.			1		10 s		calm	0	0	cloudy	Miss Flora A. Nichols.
Rivas							96	ne.			2	0	k		ne.	0	0	clear	Robert Mason.
Santiago de Cuba, W. I.	30.09	764.3	30.12	765.0	74	23.3	67	calm	0	0		0	2 ks			0	0	fair	
York Factory, B. A.	30.82	782.8	30.88	784.3	—21.0	—29.4		n.	16	7.2		0	0			0	0	clear	W. Wood.

STATIONS AND VESSELS.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.	Character.	Direction from.	
British Naval.																		
H. M. S. Agincourt, N. 39° 11′, E. 9° 06′	30.11	764.8	56	13.3	93	nne.			1		0							misty.
H. M. S. Alert, S. 5° 24′ E. 53° 18′	29.87	758.7	85.5	29.7	79	nw.			1–2		5							showery.
H. M. S. Alexandra, Malta, Mediterranean	30.19	766.8	69	20.6	73	sse.			1		1							blue sky.
H. M. S. Bacchante, Alexandria, Egypt	30.18	766.6	62	16.7	83	n.			2		3	nnw.						d. clouds.
H. M. S. Boadicea, S. 34° 11′, E. 18° 20′	30.08	764.0	72	22.2	58	ese.			3		0							blue sky.
H. M. S. Comus, Labuan Island, Borneo	29.87	758.7	82	27.8	87	calm			0		3							d. clouds.
H. M. S. Daring, N. 20° 15′, E. 116° 10′	29.97	761.2	75	23.9		calm			0		9					1	s.	d. clouds.
H. M. S. Diamond, S 34° 12′, E. 110° 32′	29.74	755.4	63	17.2	83	w.			2–3		1					2	w.	blue sky.
H. M. S. Dido, N. 16° 00′, W. 61° 45′	30.08	764.0	71	21.7		ne.			1–2		1	ne.						blue sky.
H. M. Dock-Yard, Bermuda, W. I.	30.08	764.0	61	16.1	70	ese.			1		0?							gloomy.?
H. M. S. Dwarf, S. 34° 54′, W. 56° 10′	30.15	765.8	60.5	15.8	76	se.			1–2		0					1	se.	blue sky.
H. M. S. Eclipse, S. 16° 01′, E. 44° 28′	29.81	757.2	82	27.8		n.			1		2					2	nne.	d. clouds.
H. M. S. Espiegle, S. 37° 10′, E. 93° 20′	30.20	767.1	56	13.3	74	sse.			5		10					7	sse.	d. clouds.
H. M. S. Euryalus, N. 18° 05′, E. 40° 00′	29.90	759.4	77	25.0	79	nw.			1		3							d. clouds.
H. M. S. Fawn, N. 15° 04′, E. 42° 14	29.83	757.7	78.5	25.8	78	w.			1		1	ne.				1	w.	blue sky.
H. M. S. Flying Fish, N. 34° 41′, E. 135° 12′	29.68	753.9	52	11.1	93	calm			0		10							heavy rain.
H. M. S. Gannet, S. 33° 00′, W. 76° 00′	30.03	762.7	63.5	17.5	86	ssw.			6		4					5	s.	misty.
H. M. S. Garnet, S. 42° 15′ W. 61° 10′	29.84	757.9	63	17.2	88	ssw.			5		7	sw.				5	con.	d. clouds.
H. M. S. Inconstant, S. 21° 00′ E. 78° 00′	29.95	760.7	80	26.7	82	ne.			2		3	ne.				3	e.	d. clouds.
H. M. S. Iron Duke, N. 22° 16′, E. 114° 10′	29.92	760.0	69	20.6	79	n.			1		5	n.						d. clouds.
H. M. S. Lark, S. 32° 08′, E. 171° 58′	30.13	765.3	68.3	20.2		sse.			3		6					2	w.	showery.
H. M. S. Liffey, Coquimbo, Chili	29.95	760.7	60	15.6		calm			0		10							overcast.
H. M. S. Magpie, N. 20° 22′, E. 120° 30′	30.10	766.1	52.7	11.5	75	nne.			3–6		10					2	e.	misty.
H. M. S. Malabar, N. 14° 12′, E. 42° 35′	29.90	759.4	79	26.1	95	nw.			1		1	n.				1	nnw.	blue sky.
H. M. S. Orontes, N. 19° 30′, E. 39° 00′	29.89	759.2	78.5	25.8	91	nnw.			2		0					2	nnw.	blue sky.
H. M. S. Rambler, S. 7° 40′ E 12° 38′	29.87	758.7	80	26.7		sse.			1		6	sse.				1	ssw.	d. clouds.
H. M. S. Ready, Muscat, Arabia	30.08	764.0	70.1	21.2		nw.			2		9							d. clouds.
H. M. S. Rocket, Vancouver Island, British Columbia	30.21	767.3	40	4.4	91	nnw.			1		10							raining.
H. M. S. Sea Gull, S. 5° 44′, E. 41° 14′	29.25	742.9	84	28.9	83	ne.			1–2		2	nne.						d. clouds.
H. M. S. Serapis, N. 37° 47′ W. 9° 13′	29.94	760.5	60	15.6	82	se.			3		6	sse.				4	wnw.	d. clouds.
H. M. S. Tenedos, N. 21° 27′ W. 71° 09′	30.13	765.3	75	23.9	81	ene.			2		4					1	nnw.	d clouds.
H. M. S. Thalia, S. 22° 19′, W. 29° 17′	30.05	763.3	74	23.3		nne.			2		10					2	nne.	showery.
H. M. S. Triumph, S. 33° 22′, W. 75° 53′	30.09	764.3	64	17.8	89	sse.			6		7	se.				7	se.	squally.
H. M. S. Woodlark, Bombay, India	29.70	755.9	88.5	31.4	49	nw.			5–6		0							misty.
Portuguese Naval.																		
Quanza, Santiago, Cape Verd Islands	30.04	762.9	76.1	24.5	64	ne.			3		0					2	ne.	blue sky.
Rio Sima, Porto Praya, Cape Verd Islands	30.07	763.7	78.8	26.0	96	ne.			2		1		ne.			2		blue sky.
Tamega, Macao, China	30.02	762.4	69.1	20.6	90	nnw.			3		10			8 h'r	8 h'r	2	nnw.	thnd'r storm
United States Naval.																		
Navy Yard, Pensacola, Fla	29.99	761.7	71	21.7	95	ssw.	12	5.4			2		sw.	0	0			fair.
Naval Hospital, Portsmouth, N. H.	29.90	759.4	36	2.2	70	ne.	10	4.5			10		ne.	0	0			cloudy.
Naval Hospital, Yokohama, Japan	29.70	755.9	40	4.4	95	nne.			3		10		ne.	0.12	3.0			raining.
Adams, Callao, Peru	29.75	755.6	68	20.0	90	sse.			1		10					gr'd		cloudy.
Alaska, Valparaiso, Chili	29.93	760.2	64	17.8	68	calm			0		10			0	0	sm'h		cloudy.
Alert, N. 18° 37′, E. 118° 55′*	29.81	757.2	79	26.1	78	n.			4		0			0	0	sm'h		clear.
Alliance, Kingston, Jamaica	30.02	762.5	75	23.9	72	ne.			1		2			0	0	sm'h		clear.
Ashuelot, N. 33° 42′, E. 125° 28′	30.11	764.8	43	6.1	75	nnw.			5		2		calm			sm'h		fair.
Brooklyn, S. 35° 23′ W. 53° 54′	30.15	765.8	57	13.9	87	sw.	12	5.4			2		sw.	0	0	mod.	sw.	fair.
Colorado, New York, N. Y.	29.79	756.7	42	5.6	100	se.	2	0.9			10		calm	0.25	6.3			raining.
Enterprise, Santa Lucia, W. I.*	29.99	761.7	76	24.4	82	ne.			1		10							cloudy.
Essex, N. 7° 26′, W. 14° 46′	29.99	761.7	81	27.2	83	w.			2		3					sm'h	w.	cloudy.
Franklin, Norfolk, Va.	29.73	755.1	52	11.1	?	s.	5	2.2			10			0	0			foggy.
Galena, Palermo, Sicily	30.15	765.8	66	18.9	84	ene.			2		5					sm'h		fair.
Independence, Mare Island, Cal.	30.18	766.6	55	12.8	68	e.			3		0			0	0			clear.
Kearsage, N. 20° 36′, W. 80° 00′	30.07	763.8	78	25.6	78	ne.			3		2		ene.			sm'h		fair.
Lackawanna, Valparaiso, Chili†	30.07	763.8	59	15.0	?	n.			1		10		n.					misty.
Lancaster, Piraeus, Greece*	30.11	764.8	65	18.3	78	sse.			0–1		2		sse.	0	0			fair.
Marion, S. 33° 54′, E. 18° 24′ *†	30.18	766.6	72	22.2	71	se.			3		0					sm'h		clear.
Michigan, Erie, Pa	30.49	774.4	37	2.8	100	e.			4		10		e.					raining.
Minnesota, Newport, R. I.	29.82	757.4	40	4.4	73	ese.	2	0.9			10							cloudy.
Monocacy, N. 35° 01′, E. 138° 32′	29.84	757.9	52	11.1	79	ne.			4		10		calm					cloudy.
New Hampshire, Newport, R. I.	29.97	761.2	39	3.9	64	se.			3		10					sm'h		cloudy.
Nipsic, Gibraltar, Mediterranean	30.04	763.0	60	15.6	71	sse.			2		10					sm'h		cloudy.
Onward. Callao, Peru†	30.05	763.3	67	19.4	89	se.			2		10		n.			long	v	overcast.
Palos, Gozoyo, Sima Island, China	29.80	756.9	44	6.7	92	ne.			2		10		calm					rainy.
Passaic, Washington, D. C.	29.76	755.9	42	5.6	91	ne.			1		10		calm					cloudy.
Pensacola, Callao, Peru	30.00	762 0	67	19.4	89	se.	1	0.4			10			0	0	sm'h		rainy.
Portsmouth, Alexandria, Va.	29.71	754.6	45	7.2	100	ene.			1		10		e.			sm'h		clear.
Powhatan, Kingston, St Vincent, W. I.	30.04	763.0	80	26.7	91	ene.			1		2		e.					clear.
Quinnebaug, N. 38° 10′, E. 15° 36′	30.12	765.0	66	18.9	59	ssw.			2		2		ssw.			sm'h		clear.
Ranger, Santiago Bay, Mexico*	29.82	757.4	70	21.1	70	ne.			2		2		e.	0	0	sm'h		clear.
Richmond, Yokohama, Japan*	29.82	757.4	43	6.1	92	nne.			4		10							rainy.
Shenandoah, Barbadoes, W. I.*	30.08	764.0	78	25.6	78	ne.			2		5		ne.			sm'h		fair.
St. Louis, League Island, Pa	30.01	762.2	42	5.6	91	calm	0	0			10			0.08	2.0			raining.
Swatara, Kobe, Japan*	29.55	750.6	58	14.4	64	calm			0		10					sm'h		light rain.
Tennessee, New Orleans, La.	29.97	761.2	72	22.2	90	sw.	4	1.8			2		w.	0	0			hazy.
Vandalia, Key West, Florida†	30.18	766.6	75	23.9	86	sse.			2		8		calm					fair.
Wabash, Boston, Mass.	29.97	761.2	40	4.4	64	ene.	5	2.2			10		ene.	0	0			overcast.
Wachusetts, Sitka, Alaska	29.80	756.9	12	−11.1		ene.			1		0					sm'h		clear.
Wyoming, Port Royal, S. C.	29.96	761.0	65	18.3	73	sw.	8	3.6			5		sw.	0	0			fair.
Yantic, N 20° 16′ W. 95° 47′*	29.91	759.7	75	23.9	100	ese.			2		8		e.			mod.	ese.	fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.			Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.	Force.	Amount and kind.		Direction.				Character.	Direction from.	
									Upper.	Lower.	Upper.	Lower.					
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																	
S. S. Peruvian, N. 45° 34′ W. 39° 40′*	29.51	749.5	52	11.1	.....	s.	.....	.....	9	.....	5?	.....	ssw.	o	o	r'gh	sw.	clear.?
S. S. Polynesian, Halifax, N. S*	29.69	754.1	22	— 5.6	.....	w.	.....	.....	2	.....	1	.....	.....	o	o	.....	.....	light haze.
S. S. Prussian, N. 55° 13′, W. 5° 31′*	29.54	750.3	34	1.1	.....	wsw.	.....	.....	3	.....	8	.....	w.	.....	.....	sm'h	.....	snowing.
S. S. Waldensian, Glasgow, Scotland*	29.50	749.3	42	5.6	.....	sw.	.....	.....	5	.....	8	.....	wnw.	4 h'r	4 h'r	.....	.....	showery.
AMERICAN STEAMSHIP COMPANY.																		
S. S. British Crown, Mersey River, Eng†	29.75	755.6	38	3.3	.....	nw.	.....	.....	8	.....	6	.....	nw.	3 h'r	3 h'r	.....	.....	sleeting.
S. S. Illinois, Liverpool, Eng	29.34	745.2	43	6.1	92	w.	.....	.....	8	.....	2	.....	w.	.....	.....	.....	.....	clear.
S. S. Indiana, N. 41° 17′, W. 48° 24′†	30.07	763.8	44	6.7	68	nnw.	.....	.....	3	.....	5?	.....	n.	light	light	mod.	con.	cloudy.?
ANCHOR LINE.																		
S. S. Utopia, N. 34° 24′, W. 38° 33′*†	30.15	765.8	70	21.1	95	sw.	.. ..	.....	4	.....	1	.....	sw.	½ h'r	½ h'r	cross	sse.	clear.
ATLAS LINE.																		
S. S. Ailsa, Savanilla, U. S. Of	29.88	758.9	75	23.9	86	ne.	.....	.....	2	.....	o	.....	.....	o	o	.....	.....	fine.
S. S. Arden, N. 19° 04′, W. 66° —′	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	sm'h	nne.	fine.
S. S. Athos, Kingston, Jamaica, W. I.	29.68	753.9	.....	.....	.....	.....	.....	.....	.....	o	.....	.....	o	o	.....	.....	.....	clear.
BRITISH METEOROLOGICAL OFFICE.																		
S. S. Auckland, N. 23° 00′, W. 39° 55′	30.11	764.8	73	22.8	.....	sse.	.....	.....	5	.....	8	.....	.....	.....	.....	.....	.....	d. clouds.
Baroda, S. 30° 25′, E. 78° 24′	30.04	763.0	69.6	20.9	87	ne.	.....	.....	6	10	.....	.....	.....	.....	.....	.....	.....	overcast.
British Merchant, N. 12° 57′ E. 91° 19′	29.86	758.4	85.5	29.7	76	sw.	.....	.....	2	o	.....	.....	.....	.....	.....	.....	.....	misty.
Bk. Culdew, N. 18° 31′, W. 38° 39′	30.13	765.3	73.7	23 2	.....	e.	.....	.....	6	3	.....	.....	.....	.....	.....	.....	.....	d. clouds.
Bk. Commewyne, N. 30° 40′, W. 56° 05′	29.97	761.2	65.8	18.8	76	nne.	.....	.....	4	5	.....	.....	.....	.....	.....	.....	.....	d. clouds.
Coppename, N. 50° 36′, W. 11° 40′	30.05	763.3	50	10.0	65	nw.	.....	.....	7	7	.....	.....	.....	.....	.....	.....	.....	d. clouds.
S. S. Gordon Castle, Singapore, India	29.88	758.9	.....	.....	.....	e.	.....	.....	1	2	.....	.....	.....	.....	.....	.....	.....	d. clouds.
S. S. Hermine, S. 7° 04′, W. 28° 53′	29.95	760.7	82.3	27.9	79	ene.	.....	.....	5	3	.....	.....	.....	.....	.....	.....	.....	d. clouds.
Hope, Aracaju, Brazil, S. A	29.96	761.0	82.5	28.1	81	ene.	.....	.....	3	1	.....	.....	.....	.....	.....	.....	.....	blue sky.
S. Lochee, N. 41° 50′, W. 38° 25′	29.98	761.5	61	16.1	97	s.	.....	.....	8	10	.....	.....	.....	.....	.....	.....	.....	misty.
Minho, N. 38° 54′, W. 9° 33′	29.94	760.5	58.8	14.9	70	se.	.....	.....	3	4	.....	.....	.....	.....	.....	.....	.....	d. clouds.
CROMWELL LINE.																		
S. S New Orleans, N. 39° 48′, W. 74° 00′*†	29.85	758.2	49	9.4	.....	e.	.....	.....	.....	10	.....	.....	.....	.....	.....	r'gh	ne.	stormy.
CUNARD LINE.																		
S. S. Scythia, N. 42° 53′, W. 45° 54′†	29.88	758.9	51	10.6	93	nw.	.....	.....	6	.....	2	.....	nnw.	12 h'r	12 h'r	r'gh	con.	clear.
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. Canada, N. 48° 04′, W. 25° 05′	30.47	773 9	48.2	9.0	.....	nw.	.....	.....	3	.....	10	.....	nw.	o	o	.....	nw.	
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Bohemia, N. 40° 35′, W. 73° 20′ *†	29.80	756.9	.....	.....	.....	nw.	.....	.....	2	.....	10	.....	.....	rain	rain	sm'h	nw.	fine.
S. S. Gillert, N. 41° 45′, W. 50° 16′	29.91	759.7	52	11.1	.....	wnw.	.....	.....	2	.....	2	.....	w.	o	o	mod.	se.	fair.
S. S. Lessing, Hamburg, Germany	.....	.....	58	14.4	.....	sw.	.....	.....	6	.....	8	.....	sw.	o	o	.....	.....	cloudy.
S. S. Silesia, N. 52° 43′, E. 3° 46′*†	29.67	753.6	45.0	7.2	.....	w.	.....	.....	6	.....	8	.....	wnw.	o	o	5	w.	d. clouds.
S. S. Wieland, N. 40° 42′, W. 67° 15′	29.94	760.5	43	6.1	.....	s.	.....	.....	2	.....	10	.....	s.	1 h'r	1 h'r	.....	.....	raining.
JOHNSTON LINE.																		
S. S. Thanemore, N. 45° 01′, W. 38° 19′	29.80	756.9	.....	.....	.....	sse.	.....	.....	9	.....	10	.. ..	sse.	hv'y	h'vy	.....	s.	cloudy.
MALLORY LINE.																		
S. S. Colorado, Galveston, Texas†	30.01	762.2	70	21.1	.....	nw.	.....	.....	4	.....	8	.....	nnw.	3 h'r	3 h'r	.....	.....	cloudy.
MERCHANTS' EXPRESS LINE.																		
S. S. Freja, N. 42° 37′, W. 43° 32′†	29.72	754.9	62	16.7	88	s.	.....	.....	8	.....	10	.....	s.	6 h'r	6 h'r	cross	s.	
S. S. Hermod, Havre, France*†	29.76	755.9	53.6	12.0	.....	sw.	.....	.....	2	.....	4?	.....	sw.	o	o	.....	.....	cloudy ?
NATIONAL LINE.																		
S. S. Erin, New York, N. Y	.....	.....	.....	.....	.....	e.	.....	.....	6	.....	8	.....	ene.	3 h'r	3 h'r	.....	.....	showery.
S. S. Italy, N. 40° 20′ W. 59° 18′	30.02	762.5	.....	.....	.....	w.	.....	.....	2	.....	2	.....	w.	8 h'r	8 h'r	mod.	wnw.	clear.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Niagara, Matanzas, Cuba, W. I. *†	30.20	767.1	72	22.2	.....	calm	.....	.....	0	.....	0	.....	.....	o	o	.....	.....	clear.
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Alvena, N. 17° 56′, W. 66° 40′*†	30.01	762.2	66	18.9	.....	calm	.....	.....	0	.....	.....	.....	.....	.....	.....	sm'h	.....	
S. S. Atlas, N. 26° 03′, W. 74° 07′*†	30.26	768.6	72	22.2	.....	calm	.....	.....	0	.....	.....	.....	.....	.....	.....	.....	.....	clear.
S. S. Bothnia, N. 50° 19′ W. 19° 38′	30.28	769.1	50	10.0	.....	wnw.	.....	.....	6	.....	.....	.....	.....	.....	.....	.....	wnw.	overcast.
S. S. City of Washington, N. 23° 10′, W. 82° 21′*†	30.30	769.6	80	26.7	.....	ne.	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	sw.	clear.
S. S. Maas N. 39° 59′ W. 47° 45′.*	29.83	757.7	51	10.6	.....	wnw.	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	var.	fine.
S. S. New York, N. 35° 15′ W. 75° 12′*†	29.85	758.2	64	17.8	.....	sw.	.....	.....	6	.....	.....	.....	.....	.....	.....	.....	sw.	clear
S. S. Olbers, N. 0° 44′ W. 27° 00′*†	30.00	762.0	80	26.7	.....	sse.	.....	.....	1–3	.....	.....	.....	.....	.....	.....	slight	se.	showery.
NORTH GERMAN LLOYD.																		
S. S. Elbe, N. 44° 02′, W. 41° 12′	29.74	755 4	53.6	12.0	.....	sse.	.....	.....	9	.....	10	.....	s.	rain	rain	h'vy	sse.	raining.
S. S. Hermann, N. 40° 09′, W. 54° 52′*†	30.06	763.5	53.6	12.0	.....	w.	.....	.....	5	.....	2	.....	wnw.	o	o	mod.	nw.	fair.
S. S. Leipzig, N. 48° 22′, W. 24° 01′	30.52	775 2	54.0	12.2	67	vr.	.....	.....	3	.....	10	.....	wnw.	4 h'r	4 h'r	long	nw.	cloudy.
S. S. Main, Portland, Eng*	29.85	758.2	51.8	11.0	.....	wnw.	.....	.....	5	.....	5	.....	nw.	.....	.....	mod.	wnw.	showery.
S. S. Nurnburg N. 10° 45′, W. 25° 03′*	29.99	761.7	78.8	26.0	74	ene.	.....	.....	4	.....	0	.....	.....	o	o	4	ne.	clear.
S. S. Oder, N. 41° 05′, W. 56° 37′	29.91	759.7	54.5	12.5	.....	nw.	.....	.....	4	.....	2	.....	nw.	o	o	mod.	nw.	fair.
S. S. Ohio, Bremerhaven, Germany	29.65	753.1	.....	.....	.....	sw.	.....	.....	5	.....	8	.....	wsw.	o	o	.....	.....	cloudy.
S. S. Salier, N. 40° 50′, W. 71° 56′	29.81	757.2	37.4	3.0	.....	ne.	.....	.....	4	.....	10	.....	ne.	3 h'r	3 h'r	mod.	ne.	drizzling.
S. S. Strassburg, N. 49° 10′, W. 13° 47′	30.31	769.9	50.0	10.0	93	nw.	.....	.....	6	.....	4	.....	nw.	o	o	hv'y	nw.	fair.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Belgic, N. 34° 57′, W. 141° 28′†	29.77	756.1	62	16.7	?	ese.	.....	.....	6	.....	10	.....	.....	rain	rain	h'vy	se.	raining.
S. S. Gaelic, Hong Kong, China †	29.98	761.5	71	21.7	95	se.	.....	.....	2	.....	o	.....	.....	.....	.....	.....	.....	clear.
S. S. Oceanic, N. 35° 38′, W. 142° 24′ *	29.97	761.2	60	15.6	88	s.	.....	.....	5	.....	6	.....	sw.	.....	.....	2	sw.	fine.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, New York, N. Y†	29.91	759.7	.....	.....	.....	ese.	.....	.....	2	.....	10	.....	.....	rain	rain	.....	.....	foggy.
S. S. Seminole, Boston Bay, Mass.†	29.92	760.0	38	3.3	81	ne.	.....	.....	3	.....	8	.....	ne.	o	o	long	ne.	threatening.
OREGON IMPROVEMENT COMPANY.																		
S. S. Mississippi, N. 46° 10′, W. 124° 44′†	30.35	770.9	46	7.8	77	s.	.....	.....	2	.....	10	.....	s.	.....	.....	mod.	sw.	cloudy.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. City of Chester, N. 38° 41′, W. 123° 36′*†	30.29	769.4	52.5	11.4	83	nw.	.....	.....	3	.....	2	.....	nw.	.....	.....	sm'h	.....	fair.
S. S. Oregon, N. 44° 56, E. 124° 14′†	30.35	770.9	43	6.1	75	ne.	.....	.....	1	.....	0	.....	.....	.....	.....	sm'h	.....	fair.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, N. 34° 53′ W. 120° 58′†	30.18	766.6	52	11.1	79	n.	.....	.....	2	.....	0	.....	.....	.....	.....	sm'h	.....	clear.
S. S. G. W. Elder, N. 40° 20′, W. 124° 35′†	30.38	771.6	46	7.8	.....	nw.	.....	.....	5	.....	4	.....	nw.	o	o	light	nw.	clear.
S. S. Idaho, N. 47° 40′, W. 124° 52′†	30.22	767.6	45	7.2	92	s.	.....	.....	6	.....	10	.....	sse.	.....	.....	h'vy	ssw.	stormy.
S. S. Orizaba, N. 35° 09′, W. 120° 34′†	30.22	767.6	51	10.6	79	sw.	.....	.....	2	.....	.....	.....	nw.	o	o	light	nw.	clear.
S. S. State of California, San Francisco, Cal. †	30.28	769.1	45	7.2	84	nne.	.....	.....	3	.....	o	.....	.....	o	o	.....	.....	clear.
S. S Victoria, San Francisco, Cal †	30.30	769.7	40	4.4	100	n.	.....	.....	3	.....	o	.....	.....	.....	.....	.....	.....	clear.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, Sydney, N. S. W	30.10	764.5	69	20.6	95	nw.	.....	.....	1	.....	2	.....	nw.	o	o	.....	.....	clear.
S. S. City of New York, N. 19° 50′, W. 158° 30′.†	29.98	761.5	72	22.2	90	s.	.....	.....	2	.....	o	.....	.....	o	o	sm'h	ne.	clear.
S. S. City of Pekin, N. 15° 02′ W. 94° 00′†	29.94	760.5	80	26.7	78	ene.	.....	.....	2	.....	.....	.....	.....	o	o	sm'h	.....	hazy.
S. S. City of Rio de Janeiro, Acapulco, Mexico†	30.17	766.3	79	26.1	82	s.	.....	.....	2	.....	o	.....	.....	o	o	long	nw.	clear.
S. S. City of Sydney, Sydney, N. S. W†	30.19	766.8	67	19.4	79	w.	.....	.....	1	.....	5	.....	se.	o	o	sm'h	.....	hazy.
S. S. City of Tokio, N. 34° 42′, W. 153° 30′†	29.73	755.1	62	16.7	100	ssw.	.....	.....	9	.....	10	.....	ssw.	4 h'r	4 h'r	mod.	ssw.	raining.
S. S. Clyde, N. 28° 54′, W. 116° 40′ †	30.14	765.5	56	13.3	81	n.	.....	.....	3	.....	2	.....	nw.	o	o	light	nw.	clear.
S. S. Colima, N 37° 36′ W. 122° 35′†	30.25	768.3	45	7.2	76	calm	.....	.....	c	.....	1	.....	wnw.	o	o	sm'h	wnw.	clear.
S. S. Colon, N. 27° 45′, W. 73° 59′†	30.18	766.6	74	23.3	.....	w.	.....	.....	2	.....	2	.....	wnw.	.....	.....	sm'h	.....	clear.
S. S. South Carolina, Panama, Panama†	29.99	761.7	79	26.1	78	n.	.....	.....	3	.....	2	.....	nne.	o	o	light	e.	
QUEBEC STEAM SHIP COMPANY.																		
S. S. Bermuda, N. 38° 25′, W. 74° 00′†	29.95	760.7	30	—1.1	.....	ese.	.....	.....	1	.....	fog	.....	.....	2 h'r	2 h'r	sm'h	ne.	raining.
RED STAR LINE.																		
S. S. Nederland, N. 48° 10′, W. 17° 00′*†	30.92	785.4	49	9.4	.....	nw.	.....	.....	4	.....	10	.....	n.	hail	hail	mod.	nnw.	cloudy.
S. S. Rhyniand, Jersey City, N. J	29.79	756.7	44	6.7	69	ese.	.....	.....	2	.....	10	.....	.....	0.15	3.8	.....	.....	rainy.
S. S. Switzerland, N. 49° 23′, W. 12° 33′†	30.24	768.1	.....	.....	.....	wnw.	.....	.....	6	.....	8	.....	wnw.	.....	.....	h'vy	wnw.	rainy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
RED STAR LINE—Continued.																		
S. S. Vaderland, N. 40° 46′, W. 51° 03′	29.89	759.2	48	8.9	.....	wnw.	.....	.....	5	.....	0	.....	.....	10 h'r	10 h'r	cross	wnw.	clear.
S. S. Waesland, Antwerp, Belgium	29.85	758.2	50	10.0	.....	w.	.....	.....	6	.....	8	.....	nw.	3 h'r	3 h'r	.....	.....	cloudy.
ROTTERDAM LINE.																		
S. S. W A Scholten, N. 50° 10′, W 3° 00′*	29.78	756.4	58.2	14.6	70	wnw.	.....	.....	6	.....	5	.....	nw.	0	0	mod	w.	
THINGVALLA LINE.																		
S. S. Thingvalla, Copenhagen, Denmark†	29.67	753.6	43.7	6.5	.....	ssw.	.....	.....	1	.....	6?	.....	ssw	0	0	.....	.....	covered?
WHITE STAR LINE.																		
S. S. Brittannic, N. 46° 37′, W. 37° 25′*†	29.77	756.1	54	12.2	.....	ssw.	.....	.....	8	.....	8	.....	wsw.	2 h'r	2 h'r	hv'y	sw.	misty.
S. S. Celtic, New York, N. Y†	29.91	759.7	46	7.8	92	sw.	.....	.....	4	.....	10	.....	s.	16 h'r	16 h'r	.....	.....	misty.
S. S. Republic, N. 41° 18′, W. 55° 25′†	30.02	762.5	57	13.9	69	wnw.	.....	.....	3	.....	2	.....	w.	0	0	sm'h	wnw.	fair.
WILSON LINE.																		
S. S. Romano, Off Beachy Head, Eng.	.....	.....	.....	.....	.....	wsw.	.....	.....	2	.....	.....	.....	.....	0	0	.....	.....	cloudy.
S. S. Salerno, N. 40° 08 W. 56° 06′†	30.00	762.0	55	12.8	.....	wnw.	.....	.....	5	.....	5	.....	wnw.	.....	.....	mod.	nw.	fair.
WINSOR LINE.																		
S. S. Catherine Whiting, Philadelphia, Pa.†	29.83	757.7	.....	.....	.....	n.	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	
MISCELLANEOUS.																		
Sch. Addie Fuller, Cedar Keys. Florida†	30.16	766.1	70	21.1	90	sw.	.....	.....	3	0	0	.....	.....	0	0	.....	.....	clear.
Bk. Adelaide, S. 23° 15′, W. 42° 36′*†	30.00	762.0	78	25.6	.....	sw.	.....	.....	2	.....	7	.....	ssw.	0	0	sm'h	s.	fair.
Schr. Annie M. Smull, S. 24° 02′, W. 31° 36′*†	30.00	762.0	78	25.6	.....	ne.	.....	.....	.....	.....	2	.....	ne.	4 h'r	4 h'r	.....	sw.	clear.
Bk. Bergenseren, N. 35° 40′, W. 29° 14′†	30.54	775.7	.....	.....	.....	ese.	.....	.....	3	.....	.....	.....	e.	0	0	3	ne.	blue sky.
Bk. Celestina, N. 13° 22′. W. 36° 23′*†	30.03	762.7	.....	.....	.....	e.	.....	.....	3	.....	2	.....	e.	0	0	mod.	e.	
S. S. Compton, N 29° 35′, W. 80° 24′†	30.03	762.7	.....	.....	.....	wsw.	.....	.....	3	.....	0	.....	.....	0	0	sm'h	.....	clear.
Bk. E. L. Pettengill, S. 19° 28′ W. 99° 17′†	30.20	767.1	.....	.....	.....	ese.	.....	.....	2	.....	2	.....	ese.	0	0	sm'h	.....	
Ship Festina Lente, N. 58° 32′, E. 0° 15′*	29.38	746.2	.....	.....	.....	nw.	.....	.....	5	.....	8	.....	nw.	3 h'r	3 h'r	mod.	wsw.	cloudy.
U. S. F. C. S. FishHawk, Annapolis, Md †	29.90	759.4	50	10.0	100	calm	.....	.....	0	.....	10	.....	calm.	0.09	2.3	.....	.....	raining.
Bk. Freya, Baltimore, Md.	.....	.....	43	6.1	.....	e.	.....	.....	1	.....	10	.....	ssw.	8 h'r	8 h'r	.....	.....	hazy.
S. Grecian, N. 1° 50′, W. 26° 40′*†	30.00	762.0	77	25.0	.....	calm	.....	.....	0	.....	.....	.....	.....	6 h'r	6 h'r	sm'h	.....	raining.
Bk. Geo. Booth, S. 36° 24′, E. 11° 30′*†	30.20	767.1	.....	.....	.....	ssw.	.....	.....	3	.....	.....	.....	.....	driz	driz	sm'h	w.	
Bk. Granville, S. 22° 09′, W. 31° 06′*†	30.19	766.8	.....	.....	.....	ne.	.....	.....	3	.....	.....	.....	ne.	0	0	sm'h	.....	clear.
S. Hedwig, N. 57° 38′, W. 00° 10′	29.30	744.3	41.7	5.4	62	nnw.	.....	.....	7	.....	7	.....	nnw.	3 h'r	3 h'r	3	wnw.	squally.
Schr. Henry Denison, Georgetown, Brit. Guiana S.A†	29.94	760.5	.....	.....	.....	ne.	.....	.....	4	.....	7	.....	ne.	hv'y	hv'y	.....	.....	cloudy.
Bk. Johanne Auguste, S 5° 12′, E. 88° 57′*	29.72	754.9	.....	.....	.....	e.	.....	.....	1	.....	3	.....	ese.	0	0	sm'h	.....	fair.
Bg. John Wesley, N. 30° 33′, W. 71° 44′†	30.11	764 8	73	22.8	.....	wsw.	.....	.....	4	.....	2	.....	wsw.	0	0	cross	var.	hazy.
Bk. Josephine, N. 23° 47′, W. 70° 38′*†	30.27	768.8	76	24.4	77	e.	.....	.....	4	.....	0	.....	.....	0	0	sm'h	.....	clear.
Bkt. Kryolith, N. 41° 31′, W. 12° 16′*†	30.09	764.3	.....	.....	.....	nne.	.....	.....	8	.....	10	.....	nne.	0	0	hv'y	ne.	cloudy.
Schr. Maggie Abbot, N. 23° —′, W. 75° —′*†	30.14	765.5	.....	.....	.....	ene.	.....	.....	3	.....	.....	.....	ene.	0	0	long	nne.	clear.
S. S. Malabar, Gironde River, France	.....	.....	.....	.....	.....	e.	.....	.....	1	.....	fog	.....	e.	0	0	.....	.....	foggy.
S. S. Nebo, N. 27° 23′ W. 61° 45′*†	29.95	760.7	.....	.....	.....	ne.	.....	.....	4	.....	1	.....	ne.	0	0	long	n.	clear.
Bk. Peppina, N. 39° 20′, E. 4° 44′†	30.05	763.3	67	19.4	74	e.	.....	.....	2	.....	0	.....	.....	.....	.....	sm'h	.....	clear.
Bk. Pilgrim, S. 42° 25′, E. 94° 25′*†	30.20	767.1	.....	.....	.....	s.	.....	.....	6	.....	5	.....	s.	rain	rain	cross	s.	squally.
Bkt. Spotless, N. 29° 36′ W. 47° 01′*†	30.00	762.0	.....	.....	.....	nw.	.....	.....	.....	.....	.....	.....	n.	.....	.....	h'vy	se.	clear.
Bk. Stella, S. 56° 10′, W. 66° 15′*	29.72	754.9	46.8	8.2	90	wsw.	.....	.....	3	.....	3	.....	w.	0	0	mod.	.....	d. clouds.
Bk. Sunbeam, N. 36° 48′, W. 74° 30′*†	29.76	755.9	54	12.2	100	sw.	.....	.....	5	.....	10	.....	w.	0	0	mod.	sw.	foggy.
Bg. Wauburn, S. 13° 57′, W. 14° 18′*†	30.10	764.5	.....	.....	.....	ese.	.....	.....	5	.....	3	.....	ene.	.....	.....	sm'h	.....	
S. Wm. Woodbury, N. 55° 38′, E. 6° 30′*†	29.70	754.4	52	11.1	73	sw.	.....	.....	6	.....	.....	.....	w.	.....	.....	sm'h	sw.	clear.



Data, as appearing in the International Bulletin of similar date.

Isobars in *black* exhibit atmospheric pressure at sea-level, and are charted from data as reported by the several observers.

Isotherms in *red* exhibit temperature of air, similarly charted.

Broken or dotted lines indicate that the lines so broken are doubtful.

Arrows, when charted, fly with the wind and exhibit wind-direction and force.

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W. B. Hazen

Brig. & Bvt. Maj. Gen'l.
Chief Signal Officer. U. S. A.

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INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON MARCH 22, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours	.....	.....	29.96	761.0	59.7	15.4	75	ne.	.....	.....	4	.....	4	.....	.....	0	0	cloudy	Moiroud
Algiers	.....	.....	29.95	760.7	61.2	16.2	65	nw.	.....	.....	1	.....	5	.....	.....	inap.	inap.	cloudy.....	Nicolas.
La Calle	.....	.....	29.85	758.2	83.1	28.4	30	wnw.	.....	.....	1	.....	3	.....	.....	0	0	pretty fair...	Fonfrède.
Tunis	.....	.....	29.86	758.4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.00	762.0	74.3	23.5	34	n.	.....	.....	3	.....	4	.....	.....	0	0	cloudy.....	Dumas.
Tebessa	.....	.....	29.98	761.4	69.8	21.0	16	sw.	.....	.....	1	.....	2	.....	.....	0	0	fair.....	Derché.
Geriville	.....	.....	.....	.....	69.4	20.8	12	s.	.....	.....	8	.....	4	.....	.....	0	0	cloudy.....	Louchamp.
Laghouat	.....	.....	.....	.....	77.0	25.0	47	se.	.....	.....	4	.....	4	.....	.....	0	0	cloudy.....	Herbin.
Biskra	.....	.....	.....	.....	79.5	26.4	15	se.	.....	.....	3	.....	1	.....	.....	0	0	very fair.....	Malau.
Australian.																			
Melbourne, Victoria	29.95	760.7	30.04	763.0	64.0	17.8	57	ne.	2	0.9	.....	.....	2	.....	.....	0	0	fine.....	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.26	743.3	29.80	757.0	59.7	15.5	44	sw.	.....	.....	5	.....	8	.....	.....	0.028	0.7	.....	Prof. Ivan Stozir
Cracow, I. R Observatory	28.95	735.2	29.69	754.0	67.1	19.5	30	s.	22.4	10.0	.....	.....	5	.....	.....	0	0	.....	Dr. Wierzbiski.
Eperies	28.96	735.5	29.82	757.4	57.9	14.4	55	s.	.....	.....	2	0	5 s	.....	n.	0.004	0.1	.....	Julius Mikolik.
Gratz	28.52	724.5	29.74	755.5	61.7	16.5	48	w.	.....	.....	2	.....	9	.....	.....	0	0	.....	Andreas Rospini.
Hermannstadt	28.54	724.9	29.93	760.2	65.5	18.6	36	sse.	.....	.....	5	.....	7	.....	.....	0	0	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.47	723.2	29.83	757.7	44.2	6.8	71	wnw.	.....	.....	4	.....	10	.....	.....	0.189	4.8	gloomy.....	The Staff.
Lemberg	28.90	734.0	29.87	758.6	61.0	16.1	49	sw.	.....	.....	2	.....	7	.....	.....	0	0	.....	Dr. T. Stanecki.
Pola	29.74	755.3	29.85	758.1	58.5	14.7	86	sse.	.....	.....	4	.....	10	.....	.....	0	0	.....	I. R. Hydrographic Office.
Szathmar	29.47	748.4	29.93	760.2	63.3	17.4	40	sw.	.....	.....	1	.....	10	.....	.....	0	0	.....	Joseph Midlinszky, S. J.
Szegedin	29.60	751.9	29.87	758.8	65.1	18.4	45	s.	.....	.....	4	.....	5	.....	.....	0	0	.....	Karl Stancel.
Trieste	29.74	755.5	29.85	758.1	63.7	17.6	54	se.	.....	.....	1	.....	10	.....	.....	0.205	5.2	.....	Rieder.
Vienna	28.97	735.7	29.66	753.3	64.4	18.0	36	s.	.....	.....	2	.....	7	.....	.....	0.024	0.6	.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	30.04	763.0	30.14	765.5	38.7	3.7	54	nw.	27	12.1	.....	.....	4	.....	.....	0.050	1.3	squally	W. Boswell.
Armagh, Observatory	30.11	764.8	30.37	771.4	44.1	6.7	48	n.	16	7.2	.....	.....	3	.....	.....	.....	.....	d. clouds.....	S. Call.
Bidston, Liverpool Obs'y	.....	.....	30.22	767.6	42.3	5.7	67	nw.	32	14.3	.....	.....	4	.....	.....	.....	.....	d. clouds.....	John Hartnup.
Bolton, Sharples	29.63	752.6	30.18	766.6	39.4	4.1	56	nne.	36	16.1	.....	.....	0	.....	.....	.....	.....	d. clouds.....	Thomas Mackereth. [A.S.
Bradford, Yorkshire	29.72	754.9	30.12	765.0	39.5	4.2	75	nw.	.....	.....	4	.....	5	.....	.....	0	0	d. clouds.....	J. McLandsborough, F. R
Bridgetown, Barbadoes	29.99	761.7	30.02	762.5	81.0	27.2	66	ne.	.....	.....	3	.....	0	.....	.....	.....	.....	gloomy	Pvt. J. Surgenor, A. H.C.
Cardington	.....	.....	30.04	763.0	43.0	6.1	62	n.	.....	.....	7.0	.....	8	.....	.....	.....	.....	overcast.....	John McLaren.
Chatham, School M. E	29.85	758.2	29.99	761.7	42.1	5.6	71	nw.	.....	.....	5	.....	8	.....	.....	blank	blank	gloomy	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	30.06	763.5	30.29	769.4	46.1	7.8	54	nnw.	.....	.....	0	.....	5	.....	.....	.....	.....	squally.....	The Staff.
Fort Napier, Natal	27.70	703.0	29.92	760.0	71.3	21.8	57	s.	.....	.....	4	.....	3	.....	.....	.....	.....	blue sky.....	Pvt. E. K. Annis, [A. H.C.
Free Town, Sierra Leone	29.62	752.3	29.86	758.4	88.0	31.1	66	nw.	.....	.....	1	.....	3	.....	.....	.....	.....	blue sky.....	Sergt. John Robinson.
Galway, Queen's College	.....	.....	30.35	770.9	.....	.....	.....	wnw.	.....	.....	2	.....	5	.....	.....	.....	.....	blue sky.....	J. O'Donaghue.
Gibraltar, Mediterranean	29.90	759.4	29.95	760.7	64.3	17.9	78	w.	.....	.....	2	.....	5	.....	.....	.....	.....	gloomy.....	Opl. O. Baldwin.
Glasgow, Observatory	30.04	763.0	30.24	768.1	41.7	5.4	42	nw.	.....	.....	4	.....	4 k	.....	.....	.....	.....	d. clouds.....	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.84	757.9	30.02	762.5	43.0	6.1	75	n.	.....	.....	5	.....	9	.....	.....	blank	blank	overcast.....	The Staff.
Guernsey	29.87	758.7	30.18	766.6	43.5	6.4	73	nne.	.....	.....	5	.....	7	.....	.....	.....	.....	showery.....	A. Collenette, F. M. S.
Kew, Observatory	30.01	762.2	30.04	763.0	42.3	5.7	55	n.	35	15.6	.....	.....	8	.....	.....	.....	.....	squally.....	The Staff.
Leicester, Museum	29.83	757.7	30.09	764.3	43.4	6.3	41	w.	.....	.....	5	.....	0	.....	.....	blank	blank	d. clouds.....	J. C. Smith.
Malta, Mediterranean	30.01	762.2	30.09	764.3	69.8	21.0	63	sw.	.....	.....	2	.....	4	.....	.....	.....	.....	d. clouds.....	I. H. Whysall.
Nassau, Bahamas	30.21	767.3	30.26	768.6	77.5	25.3	75	sw.	.....	.....	1	.....	4	.....	.....	.....	.....	d. clouds.....	C. S. Duncombe.
Oscott, St. Mary's College	29.52	749.8	30.06	763.5	39.7	4.3	56	n.	.....	.....	4	.....	7	.....	.....	.....	.....	d. clouds.....	John Mac Email.
Oxford, Radcliffe Obs'y	29.88	758.9	30.11	764.8	41.9	5.5	56	nw	.....	.....	7	.....	9	.....	.....	.....	.....	squally.....	The Staff.
Plymouth	30.15	765.8	30.23	767.8	47.9	8.8	52	n.	.....	.....	5	.....	2	.....	.....	.....	.....	d. clouds.....	John Merrifield.
Sandwick Manse, Orkneys	.....	.....	30.16	766.1	35.1	1.7	78	nw	34	15.2	.....	.....	4	.....	.....	.....	.....	snowy.....	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.96	761.0	30.02	762.5	64.8	18.2	37	ne	.....	.....	2	.....	5	.....	.....	.....	.....	d. clouds.....	W. H. Lyne.
Sheffield	29.85	758.2	30.14	765.5	44.0	6.7	69	n.	.....	.....	4	.....	1	.....	.....	0	0	blue sky.....	W. F. Cooper.
Silloth Rectory	30.18	766.6	30.21	767.3	44.0	6.7	53	ne	.....	.....	4	.....	2	.....	.....	0.015	0.4	d. clouds.....	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	30.20	767.1	40.9	4.9	42	n.	32	14.3	.....	.....	5	.....	.....	blank	blank	d. clouds.....	R. S. J. Perry.
Stratfield Turgiss	29.86	758.4	30.09	764.3	42.3	5.7	65	n.	.....	.....	4	.....	5	.....	.....	.....	.....	squally.....	Rev. C. H. Griffiths, F.M.S.
Truro, Royal Institution	30.27	768.8	30.32	770.1	50	10.0	64	n.	.....	.....	7	.....	4	.....	.....	.....	.....	d. clouds.....	W. Newcombe.
Valencia, Observatory	30.43	772.9	30.46	773.7	48.6	9.2	56	nnw.	11	4.9	.....	.....	2	.....	.....	blank	blank	misty.....	The Met'g'l Office.
Canadian.																			
Bathurst, N. B	.....	.....	.....	.....	16.0	— 8.9	.....	calm	0	0	.....	.....	10 n	.....	.....	0	0	cloudy.....	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.83	757.7	29.88	758.9	16	— 8.9	88	ne.	5	2.2	.....	.....	10 n	.....	.....	0	0	cloudy.....	H. J. Cundall, C. E.
Chatham, N. B*	29.87	758.7	29.94	760.5	13	—10.6	80	n.	6	2.7	.....	2 cs	8 s	n.	n.	0	0	cloudy.....	G. A. Blair.
Cornwall, Ontario	29.59	751.6	29.79	756.7	18.8	— 7.3	81	e.	.....	.....	1	.....	10 s	.....	.....	0.300	7.6	cloudy.....	James Smith, M. A.
Dalhousie, N. B	29.79	756.7	29.97	761.2	8.0	—13.3	.....	calm	.....	.....	0	.....	9 ks	.....	.....	0	0	cloudy.....	H. A. Johnson.
Father Point, Quebec*	29.98	761.5	30.00	762.0	9	—12.8	87	ne.	3	1.3	.....	.....	10 s	.....	calm	0	0	threatening.	J. McWilliams.
Fort Garry, Manitoba*	29.39	746.5	30.34	770.6	— 6	—21.1	100	sw.	4	1.8	.....	5 k	5 ks	nw.	nw.	0	0	cloudy.....	James Stewart.
Fredericton, N. B	29.86	758.4	29.93	760.2	18.0	— 7.8	68	w.	6	2.7	.....	10 cs	0	.....	.....	0	0	cloudy	Prof. Harrison.
Granton, Ontario	28.70	729.0	29.87	758 7	21.3	— 5.9	96	nw.	.....	.....	2	6 cs	0	nw	.....	0.50	12.7	snowy.....	A. Allison.
Halifax, N. S*	29.68	753.9	29.82	757.4	20	— 6.7	83	ne.	10	4.5	.....	.....	10 n	.....	.....	0.010	0.3	cloudy.....	Geo. Dickson, B. A.
Hamilton, Ontario	29.30	745.7	29.77	756.1	28.5	— 1.9	87	sw.	.....	.....	1	8 ck	0	.....	.....	0.30	7.6	cloudy	A. P. Knight, M. A.
Kingston, Ontario*	29.46	748.3	29.82	757.4	18	— 7.8	87	ne.	3	1.3	.....	8 ck	2 s	sw.	w.	0.24	6.1	cloudy	G. H. Rigby.
Little Glace Bay, N. S	29.78	756.4	29.82	757.4	19.0	— 7.2	85	nw.	.....	.....	3	8 k	0	nw.	.....	0	0	cloudy	C. H. McLeod, C. E.
Montreal, Quebec*	29.61	752.1	29.83	757.7	18	— 7.8	87	ne.	6	2.7	.....	.....	10 s	.....	.....	0.45	11.4	cloudy	Rev. R. Mosley.
Parry Sound, Ontario*	29.12	739.6	29.87	758.7	12	—11.1	83	n.	18	8.0	.....	2 k	5 ks	ne.	ne.	0.25	6.3	fair.....	J. Dixon, B. A.
Peterboro, Ontario	29.02	737.1	29.91	759.7	19.6	— 6.9	85	calm	.....	.....	0	0	8 ks	.....	.....	0.25	6.3	cloudy	H. Morgan.
Port Dover, Ontario	29.18	741.2	29.90	759.4	28	— 2.2	100	sw.	6	2.7	.....	.....	10 n	.....	sw.	0.26	6.6	threatening.	M. Payne.
Port Stanley, Ontario	29.18	741.2	29.85	758.2	27	— 2.8	88	w.	18	8.0	.....	.....	10 n	.....	nw.	0.13	3.3	light snow...	Capt. Ashe, R. N.
Quebec, Quebec*	29.57	751.1	29.92	760.0	15	— 9.4	91	ne.	.....	.....	7	.....	10 n	.....	ne.	0.10	2.5	light snow...	W. H. McIntyre.
Rockliffe, Ontario*	29.40	746.7	29.89	759.2	13	—10.6	80	e.	5	2.2	.....	8 cs	0	ne.	.....	0.80	20.3	clearing...	
Saugeen, Ontario*	29.12	739.6	29.87	758.7	19	— 7.2	100	n.	23	10.3	.....	.....	10 s	.....	.....	0.35	8.9	light snow...	
St. Andrews, N. B	29.80	756.9	29.85	758.2	22	— 5.6	87	ne.	8	3.6	.....	.....	10 n	.....	.....	0	0	cloudy	
St. John, N. B	29.69	754.1	29.86	758.4	21.0	— 6.1	100	n.	10	4.5	.....	5 ck	0	.....	.....	0	0	fair.....	G. Murdock, C. E.
St. Pierre, N. F	.....	.....	29.80	756.9	16.5	— 8.6	.....	e.	.....	.....	3	.....	.....	.....	.....	0	0	.....	N. F. Land, Com't.
Stratford, Ontario	28.50	723.9	29.86	758.4	22.0	— 5.6	89	nw.	15	6.7	.....	.....	10 s	.....	.....	0.150	3.8	cloudy.....	C. I. Macgregor, M. A.
Sydney, C. B*	29.80	756.9	29.87	758.7	19	— 7.2	84	ne.	8	3.6	.....	.....	10 n	.....	.....	0	0	cloudy	T. C. Hill, C. E.
Toronto, Ontario*	29.41	747.0	29.81	757.2	29	— 1.7	84	w.	14	6.3	.....	.....	10 ks	.....	.....	0.19	4.8	light snow..	Magnetic Observatory.
Windsor, N. S	29.72	754.9	29.82	757.4	21.0	— 6.1	93	ne.	12	5.4	.....	.....	10 n	.....	.....	inap.	inap.	snowing.....	Prof. W. R. Butler.
Woodstock, Ontario	28.70	729.0	29.81	757.2	23.6	— 4.7	93	w.	14	6.3	.....	0	8 ks	.....	.....	0.10	2.5	cloudy	Prof. Wolverton
Yarmouth, N. S*	29.72	754.9	29.79	756.7	25	— 3.9	80	ne.	3	1.3	.....	.....	10 n	.....	.....	0.19	4.8	light snow..	Lt. F. E. Wilmot, R. N.
Sub-series.																			
St. Johns, Newfoundland	29.76	755.9	30.03	762.7	22	— 5.6	.....	sw.	2	0.9	.....	.....	10	.....	.....	0.30	7.6	snowing.....	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.23	767.8	30.26	768.6	67.0	19.4	88	sw.	11.8	5.3	.....	.....	10 s	.....	.....	0	0	hazy..	John Duthie.
Cape Town, C. G. H. Obs'y	30.06	763.5	30.09	764.3	78.2	25.7	56	ssw.	34	15.2	.....	0	1	.....	.....	0	0	.....	The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Chinese (Sub-series).																			
Hankow	30.18	766.6	30.46	773.7	54.8	12.7	67	ene.			3		0			0	0		N. Titoushkin.
Zi-Ka-Wei, near Shanghai.	30.30	769.7	30.33	770.4	39.9	4.4	74	e.	1.8	0.8			0			0	0	clear	M. Marc Dechevrens, S.J.
Danish.																			
Copenhagen	29.76	756.0	29.81	757.2	42.3	5.7	57	nw.	11.2	5			9						Oversergent Fischer.
Fanöe	29.77	756.2	29.79	756.7	42.1	5.6	69	w.			4		2						Overloerer Lauridsen
Godthaab, Greenland	28.88	733.6	28.93	734.7	21.4	— 5.9	85	sw.			4		10						S. Kleinschmidt.
Stykkisholm, Iceland	29.11	739.5	29.16	740.6	34.9	1.6	93	s.			7		10					raining	A. O. Thorlacius
Thorshavn	30.06	763.5	30.10	764.4	35.2	1.8	68	sw.	20.1	9			4						Overloerer Bergh.
Vestervig	29.63	752.5	29.72	754.8	39.4	4.1	79	w.			6		2						Loerer Oesterboi.
French.																			
Agen, Normal School	29.48	748.9	30.15	765.7	51.4	10.8	12	n.			2	2 c	k		nw.	0.248	6.3		M. Labroue, Director.
Alençon, Normal School	29.54	750.3	30.09	764.3	40.6	4.8	87	n.			2		n		s.	0	0		M. Nicot, Director.
Arras, Engineer School	29.64	752.8	29.90	759.5	40.8	4.9	77	nnw.			10		10		e.			rain & snow	M. Klein, Commandant.
Avignon, Normal School	29.89	759.3	29.97	761.3	46.4	8	63	w.			3		5		nw.	0.016	0.4	cloudy	M. Giraud, Director.
Bar-sur-Seine	29.43	747.6	30.00	762.1	43.2	6.2	45	s.			1		8			0.118	3.0	very cloudy	M. Saillard, Director.
Beauvais, Normal School	29.73	755.2	30.01	762.2	40.3	4.6	71	nw.			2		8		nw.	0.04	1.	very cloudy	M. Frère Eugène Mari.
Besançon, Normal School	29.04	737.6	29.94	760.5	42.1	5.6	63	sw.			1		10 n		sw.	0.728	18.5	snowing	M. Gobin, Director.
Bordeaux, Observatory	29.94	760.4	30.21	767.2	46.8	8.2	39	n.			1		5		nw.	0.098	2.5	cloudy	M. Rayet, Director.
Bourges, Normal School	29.51	749.5	30.08	763.9	44.6	7	38	w.			2		kn			0.016	0.4		M. Postel, Director.
Brest, Naval Observatory	30.02	762.6	30.27	768.8	47.8	8.8	50	n.			4		6		n.	0.039	1.0		M. de Kermaree, Dir.
Caen, Normal School	30.01	762.2	30.08	764.0	43.5	6.4	67	n.			3		5		n.	0.217	5.5	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.56	750.8	29.88	759.0	42.4	5.8	73	sw.			4		8	nw.	w.	0.126	3.2	very cloudy	M. Jadot, Director.
Charleville, Normal School	29.39	746.4	29.91	759.7	41.7	5.4	59	wnw.			3		8		ese.	0.165	4.2	¾ covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.68	728.4	30.08	764.0	40.3	4.6	62	nw.			1		8		nw.	0.154	3.9	¾ covered	M. Allnard, Director.
Cluny, Normal School	29.19	741.4	30.05	763.3	45.0	7.2	83	sw.			2		4		se.	0.532	13.5		M. de Villemontée, Dir.
Commercy, Normal School	29.09	738.8	29.97	761.1	40.1	4.5	68	w.			4		5 kn	w.	w.	0.165	4.2	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.29	693.1	29.87	758.7	39.6	4.2	71	se.			4	0	2 k		n.	0.256	6.5		M. Jeangirard, Director.
Gréasque, du. Rhone	28.76	730.4	29.89	759.2	50.5	10.3	62	nw.			3		7		nw.	0.453	11.5		M. Kina, Director.
Grenoble, Normal School	29.22	742.2	30.01	762.3	40.8	4.9	68	nw.			2		kn		n.	0.650	16.5		M. Ablard, Director.
Guéret, Normal School	28.48	723.3	30.11	764.7	40.1	4.5	36	w.			2	c	o	w.		0.059	1.5		M. Rivoire, Director.
Lamballe, Normal School	29.93	760.1	30.20	767.1	47.1	8.4	55	n.			4		5		n.	0.295	7.5	cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.61	752 0	30.18	766.6	48.9	9.4	48	w.			2		5			0.268	6.8	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	30.14	765.5	30.24	768.1	47.3	8.5	61	n.			3		8		n.	0.024	0.6	¾ covered	Lt. T. Carré, Director
Lyon, St. Genis-Laval	28.97	735.9	30.06	763.6	41.4	5.2	41	n.			1		8 kn		w.	0.067	1.7	¾ covered	M. André, Director.
Mans, Normal School	29.77	756.2	30.09	764.3	40.3	4.6	80	nne.			4		8		n.	0.12	3.	very cloudy	M. Piboen, Director.
Marseille, Observatory	29.64	752.9	29.91	759.8	52.2	11.2	66	nw.			4		9		nw.	0.213	5.4		M. Stephan, Director.
Montlouis l'Instituteur	24.68	626.9	29.52	749.9	24.8	— 4.0	83	nw.	13.0	5.8			10		w.	0.106	2.7		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.84	757.9	29.97	761.2	50.0	10	50	nw.			2		5		ne.	0	0	cloudy	M. Galzin, Director.
Nancy, Normal School	29.13	740.0	29.95	760 6	38.5	3.6	57	wsw.			2	0	5 kn		nw.	0.098	2.5	cloudy	M. Hasse, Director
Nantes, Observatory	30.03	762.7	30.19	766.8	41.5	5.3	79	nnw.			2.3		9 kn; n	nw.	nnw.			rain & hail	M. Larocque, Director.
Perpignan, Observatory	29.97	761.1	30.08	764.0	44.6	7.0	58	n.	18.6	8.3			1c		nw.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.04	534.4			8.2	—13.2		nw.			1		10		nw.	0.736	18.7	snowy	Gen'l de Nansouty, Dir.
Privas, Normal School	28.91	734.2	30.00	761.9	42.8	6.0	82	ne.			1		10	nw.	nw.	0.20	5.	covered	M. Taillen.
Puy de Dôme Obs'y, Summit	24.99	634 7			19.8	— 6.8	100	wnw.			4		10			0.630	16.0	foggy	M. Allnard, Director.
Rochefort, Naval Obs'y	30.18	766.5	30.21	767.3	52.9	11.6	85	w.			2		8	nnw.	w.	0.12	3.	¾ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.87	758.6	30.09	764.2	47.1	8.4	61	nw.			2		10			0	c	covered	M. Mouillot, Director.
Rodez, Normal School	27.92	709.1	30.12	765.0	41.4	5.2	62	nw.			2		10		sw.	0.12	3.	snowing	M. Serger, Director.
Rouen, Normal School	29.94	760.5	29.99	761.7	45.0	7.2	55	nnw.			3		2			0.087	2.2	slightly cl'dy	M. Platrier, Director.
Saint Maur, Observatory	29.84	758.0	30.01	762.2	38.1	3.4	90	w.			3		9		wnw.	0.047	1.2		M. Renou, Director.
Toulouse, Observatory	29.45	748.1	30.18	766.6	47.5	8.6	55	w.			3		5		nw.	0.059	1.5	cloudy	M. Bailland, Director.
Versailles, Observatory	29.52	749.7	30.01	762.2	39.9	4.4	77	nw.			3					0.067	1.7		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.73	755.1	30.02	762.5	36.1	2.3	93	w.			2		10			0.051	1.3	rain & snow	M. Marié Davy, Director
German.																			
Bamberg	28 98	736.1	29.83	757.6	40.3	4.6	60	nw.			4	0	8k		nw.	0.31	8.		Prof. Dr. Hoh.
Berlin	29.58	751.3	29.76	755.9	40.3	4.6	84	ne.			1		10			0.327	8.3		Prof. Dr. Arndt.
Breslau	29.13	740.0	29.66	753.3	64.2	17.9	44	s.			2		8	wsw.		0.008	0.2		Royal University Obs'y.
Carlsruhe	29.47	748.5	29.92	759.9	39.9	4.4	73	sw.			7		10	sw.		0	0		Albert Senz.
Cassel	29.00	736.5	29.71	754.6	40.1	4.5	47	sw.			4		7	ssw.		0.110	2.8		Dr. H. Möhl.
Frankfort on the Main	29.45	747.9	29.82	757.4	41.4	5.2	66	sw.			3		10			0.071	1.8		Physical Society.
Friedrichshafen	28.49	723.7	29.97	761.2	38.5	3.6	68	wsw.			8		10	wsw.		0.445	11.3	snowing	Wilhelm, Chief Tel.
Hamburg	29.67	753.7	29.77	756.1	41.2	5.1	74	e.			2		10			0.012	0.3	hazy	E. Preller.
Kiel	29.74	755.3	29.75	755.7	40.1	4.5	60	nne.			1		8			0.020	0.5		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.32	744.8	29.75	755.6	44.4	6.9	73	sw.			5		9	sw.		0.236	6.0		H. Leppig, Asst.
Magdeburg	29.55	750.6	29.74	755.5	36.7	2.6	93	ne.			1		10			0.059	1.5	heavy rain	Dr. Assmann
Memel	29.76	755.9	29.81	757.1	40.3	4.6	67	nne.			3		10 s						Issermann.
Munich	28.04	712.2	29.89	759.3	39.6	4.2	76	nw.			2		10	sw.		0.157	4.0		Central Station
Neufahrwasser	29.78	756.4	29.80	756.8	38.7	3.7	83	n.			1		10			0.059	1.5		A. Lothes.
Neustadt, Palatinate	29.31	744.4	29.85	758.2	39.6	4.2	68	w.			5		8	w.		0	0		Dicknether.
Stuttgart	28.94	735.1	29.85	758.3	41.0	5.0	51	w.			6		9	w.		0	0		Prof. Dr. Schoder.
Wustrow	29.76	755 9	29.78	756.5	40.5	4.7	90	s.			1	c	10 s			0	0		Profs. Brandes & Reimer.
Greek.																			
Athens	29.71	754.6	30.10	764.4	68.2	20.1		s.			1.5		4			0	0	misty	Schmidt & Wourlisch.
Indian.																			
Bellary	28.30	718.8			100.0	37.8	15	se.	3.2	1.4		4 ck	1	nnw.		0	0	d. clouds	
Kurrachee	29.92	760.1	29.98	761.4	82.7	28.2	53	wsw.	23	10.3			3			0	0	d. clouds	
Deesa	29.36	745.9	29.82	757.4	100.4	38.0	31	n.	8.6	3.8			8	wsw.		0	0	d. clouds	
Bombay	29.80	756 9	29.84	757.8	85.8	29.9	68	wsw.	6	2.7			1		s.	0	0	d. clouds	
Poona, Yarrowda	28.01	711.4	29.86	758.3	80.8	27.1	46	nnw.	9	4.0			10		wnw.	0.25	6.4	thund'r st'm	
Belgaum	27.36	695.0	29.90	759.4	77.1	25.1	54	s.	7	3.1			8	ne.	nw.	0.22	5.6		
Lahore	29.04	737.6	29.77	756.1	89.1	31.7	29	nw.	2.2	1.0			4			0	0	d. clouds	
Roorkee	28.82	731.9	29.70	754.3	88.8	31.6	22	nw.	5.4	2.4			0			0	0		
Agra	29.19	741.4	29.73	755.2	98.4	36.9	15	nw.	10.9	4.9			0			0	0		
Nagpur	28.71	729.2	29.71	754 6	99.7	37.6	15	n.	3.5	1.6			3	w.		0	0	d. clouds	
Jubbulpore	28.43	722.2	29.74	755.5	96.7	35.9	11	n.	3.2	1.4			0			0	0	blue sky	
Lucknow	29.34	745.2	29.70	754.4	95.0	35.0	15	wnw.	10.9	4.5			0			0	0	misty	
Allahabad	29.40	746.8	29.70	754.5	95.7	35.4	21	nw.	6.9	3.1			0			0	0	misty	
Patna	29.56	750.9	29.74	755.5	90.6	32.6	49	ene.	3.6	1.6			0			0	0	blue sky	
Hazaribagh	27.73	704.4	29.68	753.9	92.8	33.8	31	n.	11.0	4.9			0			0	0	misty	
Cuttack	29.62	752.2	29.69	754.2	95.1	35.1	43	ssw.	1.7	0 8			1			0	0	blue sky	
Calcutta, Alipore	29.68	754.0	29.71	754.5	87.5	30.8	62	sse.	6.0	2.7			0			0	0	blue sky	
Dhubri	29.63	752.6	29.75	755.7	87.1	30.6	57	ne.	2.2	1.0			9			0	0	gloomy	
Chittagong	29.72	754.8	29.81	757.1	80.7	27.1	81	sw.	6.2	2.8			2			0	0	blue sky	
Sibsagar	29.45	747.9	29.78	756.4	82.3	27.9	61	sw.	4.3	1.9			0			0	0	blue sky	
Jeypore	28.37	720.7	29.78	756 3	94.4	34.7	22	nnw.	7.5	3.4			2		nnw.	0	0	d. clouds	
Zanzibar, Africa	29.77	756.1			86.3	30.2	67	ene.	6.7	3.0			8			0.35	8.9	d. clouds	
Trichinopoly	29.55	750.6			97.3	36.3	27	se.	1	0.4			0			0	0	blue sky	
Italian.																			
Udine	29.44	747 7	29.85	758.1	58.6	14.8	82	s.	8.1	3.6			10			0.157	4.0		Prof. Giovanni Clodig.
Milan	29.21	741.9	29.72	755.0	58.8	14.9	63	e.	5.6	2.5			10	ssw.		0.008	0.2		Prof. Schiaparelli.
Padua	29.68	753.9	29.79	756.7	57.9	14.4	70	nnw.	8.7	3.9			10	s.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	28.78	731.1	29.70	754.3	59.2	15.1	67	se.	4.3	1.9			8	n.		0	0		Prof. P. F. Denza.
Genoa	29.60	751.8	29.79	756.7	57.2	14.0	71	sw.	8.1	3.6			10	sw.		0	0		Prof. G. M. Garibaldi.
Mondovi	27.82	706.5	29.73	755 2	52.0	11.1	73	w.			4		5	wsw.		0	0		Prof. D. O. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	OBSERVERS.
ITALIAN.—Continued.																			
Pesaro	29.80	757.0	29.85	758.2	57.2	14.0	86	s.	10.5	4.7			10			0	0		Prof. Luigi Guidi.
Florence	29.59	751.5	29.84	758.0	60.8	16.0	54	sw.			2		10			0	0		Prof. Costantino Pitter.
Leghorn	29.71	754.6	29.80	756.8	60.3	15.7	82	s.	4.9	2.2			10	s.		0.071	1.8		Prof. P. Monte.
Rome	29.76	755.9	29.93	760.3	62.8	17.1	60	s.	21.0	9.4			10			0	0		Prof. P. S. Ferrari.
Lecce	29.77	756.1	30.02	762.5	64.0	17.8	69	se.	15.0	6.7			8			0	0		Prof. G. de Giorgi.
Cosenza	29.13	739.8	30.01	762.3	68.4	20.2	76	sse.	3.8	1.7			4	se.		0	0		Prof. D. Conti.
Cagliari	29.67	753.5	29.85	758.4	64.8	18.2	71	se.			4		6	w.		0	0		Prof. A. Pacinotti.
Palermo	29.70	754.4	29.95	760.8	76.5	24.7	28	sw.	16.8	7.5			1			0	0		Prof. G. Ciaccatore.
Syracuse	30.05	763.2	30.10	764.4	66.4	19.7	65	ssw.	16.1	7.2			7	sw.		0	0		Prof. Vincenzo Guiliano.
Sub-series.																			
Naples, S. R	29.40	746.8	29.92	759.9	63.1	17.3	41	sw.	3.1	1.4			3	w.		0	0		Prof. T. Brioschi.
Stelvio	21.81	554.0			30.7	— 0.7	82	w.			6		10			1.547	39.3	covered	Prof. P. F. Denza.
Valdobbia	21.83	554.4			30.2	— 1.0	65	n.			2		10			0.787	20.0	covered	Prof. P. F. Denza.
JAPANESE.																			
Aomori	29.56	750.8	29.60	751.8	32.0	0.0	93	ne.	12.4	5.5			10 n			0.483	12.3	heavy snow	K. Ogawa.
Hakodate	29.60	751.8	29.61	752.1	31.0	— 0.6	85	n.	6.0	2.7			10			0.470	11.9	snowing	
Hiroshima, I. M. Obs'y	29.94	760.5	29.96	761.0	38.4	3.6	83	nne.	0.2	0.1		0	4 cks			0.093	2.4	fair	K. Sasaki.
Kanazawa	29.69	754.1	29.80	756.9	39.5	4.2	81	n.	8.8	3.9		ck	10 ks			0.420	10.7	overcast	S. Endo.
Kioto	29.63	752.6	29.81	757.2	40.0	4.4	77	wnw.	6.9	3.1			9 n			0.018	0.5	light rain	M. Tojima.
Kochi	29.83	757.7	29.86	758.4	44.9	7.2	61	nw.	5.9	2.6		1 ck	0	n.		0	0	clear	
Nagasaki, I. M. Obs'y	29.84	757.9	30.05	763.3	39.9	4.4	81	n.	7.1	3.2		0	3 s			0.200	5.1	clear	S. Takehayashi.
Nilgata	29.57	751.1	29.61	752.1	42.1	5.6	85	w.	16.7	7.2			10 n			0.330	8.4	light rain	
Nobiru	29.41	747.0	29.43	747.5	37.6	3.1	84	nw.	15.6	7.0			10 s			0.665	16.9	overcast	H. Midzushima.
Supporo					29.5	— 1.4	92	n.	4.2	1.9			10			0	0	covered	
Tokei Obs'y, Yeddo	29.46	748.3	29.53	750.0	44.1	6.7	76	nnw.	4.0	1.8			4 ks		nw.	0.025	0.6	fair	The Staff.
Wakayama	29.79	756.6	29.85	758.2	41.9	5.5	68	nw.	10.1	4.5		0	0			0.013	0.3	clear	Y. Kuwamuea.
MAURITIUS.																			
Mauritius Observatory	29.76	755.9	29.95	760.7	74.0	23.3	89	ese.	12.0	5.4			10 ks;n		e.	0.11	2.8	overcast	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.79	604 2	30.01	762.2	54.5	12.5	90	ene.	21.2	9.5		3	6	e.	e.	0.012	0.3	cloudy	Vicente Fernandez.
Leon	24.51	622.6	30.23	767.8	58.1	14.5	82	wnw.			1	0	3		sw.	0.039	1.0	foggy	Prof. M. Leal.
Mazatlan	29.77	756.1	30.03	762.8	65.0	18.3	86	nnw.	0.9	0.4		10 cs	0	sw.		0	0	covered	F. Quijano, C. E.
Mexico, Central Obs'y	23.24	590.2	30.35	770.8	53.6	12.0	87	nw.	0.2	0.1		5	5			0	0	covered	M. Tena, M. D.
Morelia	24.10	612.0	30.17	766.4	59.0	15.0	65	se.			1	4	4	s.	s.	0.107	2.7	covered	The Staff.
Pabellon, Aguascalientes	24.08	611.7	30.09	764.2	61.3	16.3	66						10		sw.	0	0	covered	M. V. de Leon, M. E.
Puebla, Catholic Institute	23.45	595.6	30.26	768.6	50.9	10.5	27		0.2	0.1		0	7		ne.	0.004	0.1	cloudy	Prof. P. Spina.
San Luis Potosi	24.39	619.7	30.45	773.4	63.8	17.7	75	e.			1		10		e.	0	0	covered	G. Barroeta, M. D.
Vera Cruz																			
Zacatecas	22.64	574.4	30.31	769.8	49.8	9.9	91	e.	9.0	4.0			10			0.190	4.8	covered	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.84	758.0	29.84	758.0	43.2	6.2		wnw.			4					0.717	18.2		
Groningen	29.71	754.5	29.76	755.9	41.0	5.0		nne.			1					0.012	0.3		
Helder	29.80	756.8	29.80	756.8	41.4	5.2		n.			4					0.020	0.5		
Hellevoetsluis	29.79	756.7	29.79	756.7	43.3	6.3	67	nnw			2					0.264	6.7		
Utrecht	29.76	755.9	29.81	757.1	40.5	4.7	85	nnw.			1		8			0.717	18.2	very cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.66	753.3	29.72	754.9	36.7	2.6	65	nnw.	27	12			7			0.039	1.0		
Brono	29.32	744.6	29.35	745.6	39.9	4.4	62	n.	9	4			6			0.063	1.6		
Christiania	29.38	746.3	29.53	750.0	43.3	6.3	46	nnw.	9	4			10			0.083	2.1		
Gjesvær	29.58	751.3	29.60	751.9	28.4	— 2.0		se.			4		10						
Lodingen	29.27	743.5	29.32	744.7	33.4	0.8	65	e.			2		10			0	0		
PORTUGUESE.																			
Angra, Azores					58.6	14.8	60	se.	9.4	4.2			3			0	0		Dr. J. A. Sampaio.
Campo Major	29.00	736.5	29.98	761.5	64.8	18.2	43	nne.	15.4	6.9			3			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	29.98	701.4	30.06	763.6	59.7	15.4	64	nne.	9.4	4.2			3			1.866	47.4	raining	Capt. D. A. de Cunha.
Lisbon, Observatory	29.73	755.1	30.09	764.2	61.9	16.6	62	n.	16.8	7.5			1			0.004	0.1		The Staff.
Ponta Delgada, Azores	30.52	775.3	30.60	777.1	61.2	16.2	49	ne.	12.5	5.6			4			0	0		
Saint Paul de Loando	29.61	752.1	29.81	757.2	82.6	28.1	87	w.	1.3	0.6			8			0	0		
Serra da Estrella	25.30	642.6	30.12	765.0	40.5	4.7	73	nne.	9.4	4.2			7			0.071	1.8		
RUSSIAN.																			
Akmolinski	29.37	746.0	30.55	776.0	15.1	— 9.4	91	sw.	11	5			9 k;n			0	0		Major K. Lasarew.
Archangel	29.63	752.6	29.65	753.1	39.7	4.3	79	ese.	9	4			10			0	0	light clouds	Capt. Sselwerstow.
Astrakhan	30.67	779.1	30.59	777.0	36.7	2.6	40	ene.	7	3		0	0			0	0		Capt. Wisganow.
Barnaul	30.08	764.1	30.63	777.9	21.2	— 6.0	66	sw.	9	4			0			0	0		Meteorological Obs'y.
Dorpat	29.56	750.7	29.80	756.9	50.2	10.1	76	sw.	9	4		10 cs	0			0.197	5.0		Observatory.
Ekaterinburg	29.26	743.2	30.28	769.0	29.3	— 1.5	49	wsw.	20	9		2 c;cs	0			0	0	light clouds	Meteorological Obs'y.
Kasan	30.09	764.2	30.37	771.4	32.4	0.2	70	sw.	11	5			0			0	0		Observatory.
Kertch	30.27	768.8	30.29	769.3	42.3	5.7	79	ene.	7	3		0	1 8			0	0		Lagorio & Sastyrex.
Kieff	29.47	748.6	30.11	764.8	54.7	12.6	44	ssw.	16	7		0	0			0	0		Observatory.
Lugan	30.24	768.2	30.45	773.5	45.3	7.4	30	se.	18	8			0			0	0		Meteorological Obs'y
Moscow	29.67	753.5	30.15	765.9	46.4	8.0	59	sw.	4	2		0	2 ks			0	0		Meteorological Obs'y.
Nikolaiev	30.21	767.3	30.28	769.1	58.1	14.5	41	se.	18	8		0	0			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor	30.16	766.1	30.25	768.3	19.8	— 6.8	97	calm	0	0			10			0.150	3.8	snowing	Lieut. Iwanow.
Pekin, China	30.07	763.7	30.21	767.3	45.5	7.5	42	calm	0	0		0	0			0	0		Physical Observatory
St. Petersburg	29.74	755.4	29.76	755 8	43.2	6.2	88	ssw.	11	5			10 n			0.075	1.9		Central Physical Obs
Tashkend, Laboratory	28.70	729.0	30.32	770.2	43.9	6.6	77	calm	0	0			8			0.098	2.5		Teich, A. M.
Tiflis	28.88	733.6	30.32	770.2	52.7	11.5	28	ce.	2	1		0	2 k			0	0		Physical Observatory
Vladivostok	30.01	762.2	30.08	763.9	25.2	— 3.8	90	n.	9	4		0	0			0	0		
Warsaw	29.31	744.4	29.72	754.8	65.7	18.7	39	sse.	18	8		e	6 ks						Astronomical Obs'y
Wilna	29.41	747.0	29.82	757.5	59.0	15.0	57	s.	7	3			9			0	0		Berg, Assistant.
Yeniseisk	30.13	765.2	30.43	773.0	24.4	— 4.2	69	w.	9	4			8			0.004	0.1	snowing	M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	29.88	759.0	29.98	761.6	47.8	8.8	82	e.	5.4	2.4			10			0.362	9.2	rainy	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.23	767.9	30.29	769.4	50.0	10.0	65	e.	3.4	1.5		2	4	w.		0.504	12.8	cloudy	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.20	690.9	30.26	768.7	42.4	5.8	57	n.	10.7	4.8		0	8			0	0	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27.79	705.8	30.04	763.0	51.8	11.0	46	ne.	24.8	11.1			10			inap.	inap.	covered	The Staff.
Murcia, Met. Obs'y	29.80	756.8	29.95	760.6	69.3	20.7	53	sw.	3.4	1.5		0	0			0.433	11.0	clear	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.39	746.4	30.31	769.8	49.1	9.5	55	ne.	34.9	15.6			9			0.008	0.2	hailing	R. Gil Vallanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I	30.13	765.3	30.20	767.0	71.7	22.1	88	calm	0	0		0	3 k		ne.	0	0	fair	Benito Vines, S. J.
Manilla, Philippine Islands	29.89	759.3	29.95	760.8	77.5	25.3	68	e.	7.3	3.3			9 kn		e.	0	0	cloudy	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.94	760.6	30.04	763.1	63.7	17.6	60	ne.	2.8	1.3		0	6		nw.	0.046	1.2		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	30.04	763.0	30.13	765.3	73.4	23.0	83	e.	11.6	5.2		8 k	4 kn	e.	e.	0	0	cloudy	Manuel Maen.
Tuguegarao, Philippine Id's	29.89	759.2	30.02	762.5	71.5	21.9	83	nnw.	13.0	5.8		0	2 k		nne.	0	0	clear	José L. Yrastorza.
SWEDISH																			
Haparanda																			
Umea	29.26	743.2	29.30	744.2	33.8	1.0	100	s.			2		10			0.224	5.7		
Hernosand	29.19	741.4	29.21	742.7	36.7	2.6	82	sw.			6		9			0	0		
Stockholm	29.17	740.9	29.22	742.2	36.9	2.7	77	s.			2		10			0.008	0.2		
Wisby	29.40	746.8	29.58	751.3	43.9	6.6	55	wsw.			7		9			0.008	0.2		
Sub-series.	29.61	752.0	29.67	753.5	43.2	6.2	62	w.			2		3			0	0		
Upsala																			
SWISS.	29.42	747.3	29.51	749.5	41.0	5.0	50	sw.	24.4	10.9			10			0.004	0.1	snowing	S. G. Fineman.
Geneva	28.56	725.3	30.02	762.5	40.5	4.7	45	nw.			3					1.032	26.2	covered	The Observatory

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
TURKISH.																			
Constantinople	.....	.....	30.11	764.7	61.7	16.5	25	ne.	4	2.0	.....	.....	4	.....	sw.	0	0	.....	The Observatory.
Valona	.....	.....	30.11	764.8	63.7	17.6	.....	sw.	.....	.....	1	.....	5	.....	.....	0	0	cloudy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	29.99	761.7	67.1	19.5	56	ne.	.....	.....	1	8 c	0	.....	.....	0	0	.....	Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	29.77	756.1	29.86	758.4	37	2.8	72	calm	0	0	.....	.....	10 ks	.....	w.	0.16	4.1	cloudy	J. O. Barnes.
Alpena, Michigan	29.33	745.0	30.03	762.7	14	—10.1	80	nw.	10	4.5	.....	.....	10 n	.....	.....	0.70	17.8	light snow	Jas. J. Fitzgerald.
Atlanta, Georgia	29.05	737.9	30.25	768.3	43.0	6.1	43	w.	15	6.7	.....	0	0	.....	.....	0.06	1.5	clear	H. Hall.
Atlantic City, New Jersey	29.91	759.7	29.92	760.0	38.2	3.4	72	nw.	3	1.3	.....	1 ck	0	w.	.....	0.15	3.8	clear	Jas. M. Watson.
Augusta, Georgia	30.04	763.0	30.24	768.1	50.0	10.0	39	W	8	3.6	.....	0	0	.....	.....	0	0	clear	John Healy.
Baltimore, Maryland	29.92	760.0	29.98	761.5	41	5.0	48	nw.	6	2.7	.....	0	8 ks	.....	nw.	0.08	2.0	cloudy	Robert Seyboth.
Barnegat, New Jersey	29.89	759.2	29.91	759.7	40.0	4.4	73	W.	9	4.0	.....	0	0	.....	.....	0.20	5.1	clear	Chas. F. Merritt.
Bismarck, Dakota	28.31	719.1	30.23	767.8	10	—12.2	80	e.	8	3.6	.....	5 c	0	.....	.....	Inap.	Inap.	fair	Cyrus Cramer.
Boise City, Idaho	27.64	702.0	30.56	776.2	34	1.1	82	calm	0	0	.....	0	0	.....	.....	0	0	clear	B. E. Light.
Boston, Massachusetts	29.72	754.9	29.88	758.9	28.0	— 2.2	77	nw.	7	3.1	.....	.....	10 k	.....	.....	0.30	7.6	cloudy	O. B. Cole.
Brownsville, Texas	30.44	773.2	30.49	774.4	53	11.7	86	nw.	11	4.9	.....	.....	10 s	.....	.....	0.08	2.0	cloudy	J. C. Galloway.
Buffalo, New York	29.03	737.3	29.82	757.4	29	— 1.7	86	sw.	15	6.7	.....	0	8 ks;s	.....	sw.	0.08	2.0	cloudy	Wm Finn.
Burlington, Vermont	29.49	749.0	29.80	756.9	27.0	— 2.8	88	calm	0	0	.....	.....	10 n	.....	w.	0.09	2.3	light snow	G. C. Schaeffer.
Cairo, Illinois	30.03	762.7	30.45	773.4	36.8	2.7	56	nw.	12	5.4	.....	0	0	.....	.....	0	0	clear	W. H. Ray.
Campo, California	27.56	700.0	30.17	766.3	26.8	— 2.9	88	e.	3	1.3	.....	0	0	.....	.....	0	0	clear	W. H. Clendenon.
Camp Thomas, Arizona	27.40	695.9	30.19	766.8	48.5	9.2	47	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. T. Fitzgerald.
Cape Henry, Virginia	29.99	761.7	30.01	762.2	43	6.1	60	sw.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. E. Lanouette.
Cape May, New Jersey	29.93	760 2	29.96	761.0	41	5.0	65	W.	10	4.5	.....	0	0	.....	.....	0.10	2.5	clear	W. Bolton.
Castroville, Texas	29.73	755.1	30.56	776.2	51	10.6	52	n.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	T. Jones.
Cedar Keys, Florida	30.28	769.1	30.30	769.6	57	13.9	30	nw.	27	12.1	.....	0	3 ks	.....	.....	0	0	clear	F. W. Mixer.
Champaign, Illinois	29.41	747.0	30.27	768.8	22.5	— 5.3	78	nw.	27	12.1	.....	0	1 s	.....	nw.	Inap.	Inap.	clear	L. A. Welsh.
Charleston, S. Carolina	30.13	765.3	30.19	766.8	52	11.1	72	W.	9	4.0	.....	0	0	.....	.....	0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.21	741.9	30.09	764.3	46.0	7.8	32	W.	8	3.6	.....	0	0	.....	.....	0	0	clear	D. O. Donoghue.
Chattanooga, Tennessee	29.43	747.5	30.28	769.1	43.0	6.1	29	nw.	8	3.6	.....	0	0	.....	.....	0	0	clear	B. L. Goulding.
Cheyenne, Wyoming	24.25	615.9	30.43	772.9	35.2	1.8	37	nw.	16	7.2	.....	0	0	.....	.....	0	0	clear	E. McGovern.
Chicago, Illinois	29.43	747.5	30.17	766.3	26.1	— 3.3	88	nw.	15	6.7	.....	.....	10 n	.....	.....	Inap.	Inap.	light snow	J. Mitchell.
Chincoteague, Virginia	29.94	760.5	29.96	761.0	42	5.6	58	n.	13	5.8	.....	0	0	.....	.....	0.05	1.3	clear	F. C. Pratz.
Cincinnati, Ohio	29.51	749.5	30.20	767.1	33	0.6	60	w.	12	5.4	.....	.....	10 s	.....	nw.	Inap.	Inap.	cloudy	R. B. Watkins.
Cleveland, Ohio	29.18	741.2	29.96	761.0	28.5	— 1.9	94	sw.	21	9.4	.....	.....	10 n	.....	.....	0.02	0.5	light snow	J. B. Newlin.
Coleman City, Texas	28.70	729.0	30.56	776.2	36	2.2	72	nw.	4	1.8	.....	6 cs	0	.....	.....	0	0	fair	L. Dorman.
Columbus, Ohio	29.18	741.2	30.07	763.8	29	— 1.7	67	W.	23	10.3	.....	.....	10 ks	.....	W.	0	0	cloudy	D. Cuthbertson.
Concho, Texas	28.58	725.9	30.55	776.0	39	3.9	82	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	W. W. McConihe.
Davenport, Iowa	29.67	753.6	30.36	771.1	22	— 5.6	73	nw.	14	6.3	.....	2 k	0	nw.	.....	Inap.	Inap.	clear	R. R. Martin.
Dayton, Washington T'y	28.52	724.4	30.33	770.4	43.3	6.3	59	se.	1	0.4	.....	.....	10 s	.....	calm	0	0	cloudy	H. Clifford.
Deadwood, Dakota	25.49	647.4	30.33	770.4	39	3.9	52	sw.	2	0.9	.....	0	0	.....	.....	0	0	clear	G. W. Scott.
Decatur, Texas	.....	.....	.....	.....	47	8.3	68	ne.	5	2.2	.....	0	0	.....	.....	0	0	clear	D. J. Carr.
Delaware Breakwater, Del.	29.94	760.5	29.96	761.0	40	4.4	73	nw.	9	4.0	.....	3 ck	1 s	w.	.....	0.09	2.3	fair	A. Schneider.
Denison, Texas	29.72	754.9	30.55	776.0	44.3	6.8	51	W.	4	1.8	.....	0	5 s	.....	.....	0	0	fair	J. McGlone.
Denver, Colorado	25.00	635.0	30.44	773.2	30.5	— 0.8	51	se.	9	4.0	.....	2 c	0	calm	.....	0	0	clear	F. M. Neal.
Des Moines, Iowa	29.53	750.0	30.49	774.4	18	— 7.8	53	n.	4	1.8	.....	0	0	.....	.....	Inap.	Inap.	clear	F. W. Conrad.
Detroit, Michigan	29.22	742.2	29.97	761.2	30.3	— 0.9	88	nw.	12	5.4	.....	.....	10 s	.....	w.	0.09	2.3	cloudy	C. F. R. Wappenhans.
Dodge City, Kansas	27.79	705.9	30.52	775.2	27	— 2.8	61	se.	8	3.6	.....	0	0	.....	.....	0	0	clear	E. A. Thomas.
Dubuque, Iowa	29.58	751.3	30.33	770.4	20	— 6.7	70	nw.	7	3.1	.....	0	0	.....	.....	0.01	0.3	clear	J. Harvey Smith.
Duluth, Minnesota	29.58	751 3	30.32	770.1	13	—10.6	80	nw.	6	2.7	.....	0	0	.....	.....	0.12	3.0	clear	N. B. Conger.
Eagle Pass, Texas	29.77	756.1	30.59	777.0	51.1	10.6	93	sw.	2	0.9	.....	.....	10 s	.....	.....	Inap.	Inap.	cloudy	F. Belford.
Eagle Rock, Idaho	25.69	652.5	30.56	776.2	2	—16.7	75	n.	5	2.2	.....	0	0	.....	.....	0	0	clear	J. M. Clifford.
Eastport, Maine	29.79	756.7	29.86	758.4	23.5	— 4.7	61	ne.	19	8.5	.....	.....	10 s	.....	ne.	0	0	cloudy	J. H. Melton.
El Paso, Texas	26.55	674.4	30.35	770.9	45	7.2	71	e.	10	4.5	.....	0	0	.....	.....	0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.10	739.1	29.87	758.7	29	— 1.7	100	sw.	14	6.3	.....	.....	10 n	.....	.....	0.37	9.4	heavy snow	R. H. Paxton.
Escanaba, Michigan	29.43	747.5	30.14	765.5	20	— 6.7	84	nw.	6	2.7	.....	.....	10 s	.....	nw.	0.41	10.4	cloudy	C. Dill.
Florence, Arizona	28.59	726 2	30.16	766.1	62.5	16.9	15	ne.	3	1.3	.....	0	0	.....	.....	0	0	clear	R. R. Herman.
Fort Apache, Arizona	25.20	640.1	30.22	767.6	28	— 2.2	61	ne.	4	1.8	.....	0	0	.....	.....	0	0	clear	W. C. Barnes.
Fort Assinnaboine, Montana	27.16	689.9	30.17	766.3	39	3.9	57	sw.	25	11.2	.....	0	4 s	.....	sw.	0	0	fair	B. O. Lenoir.
Fort Bennett, Dakota	28.61	726.7	30.31	769.9	24	— 4.4	64	s.	1	0.4	.....	6 ck	0	sw.	.....	0	0	fair	T. Gibson.
Fort Benton, Montana	27.23	691.6	30.21	767.3	43	6.1	47	sw.	28	12.5	.....	.....	10 ks	.....	sw.	0	0	cloudy	S. Wheaton.
Fort Buford, Dakota	28.04	712.2	30.18	766.6	24	— 4.4	76	s.	6	2.7	.....	.....	10 s	.....	calm	0	0	cloudy	A. H. Bell.
Fort Custer, Montana	26.94	684.3	30.27	768.8	41	5.0	59	sw.	7	3.1	.....	0	6 s	.....	calm	0	0	fair	V. Verge.
Fort Davis, Texas	25.45	646.4	30.33	770 4	39	3.9	67	e.	1	0.4	.....	.....	10 s	.....	calm	0	0	cloudy	J. Williams.
Fort Elliott, Texas	27.57	700.3	30.40	772.1	35	1.7	49	sw.	4	1.8	.....	0	0	.....	.....	0	0	clear	W. J. Cundall.
Fort Gibson, Indian T'y	29.98	761.5	30.57	776.5	33.5	0.8	88	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. B. Campbell.
Fort Grant, Arizona	25.41	645.4	30.24	768.1	45	7.2	37	sw.	9	4.0	.....	0	0	.....	.....	0	0	clear	T. J. Macgowan.
Fort Griffin, Texas	29.25	742.9	30.60	777.2	37	2.8	72	nw.	1	0.4	.....	0	0	.....	.....	0	0	clear	G. H. Hayne.
Fort Keogh, Montana	27.59	700.8	30.24	768.1	30	— 1.1	59	se.	1	0.4	.....	3 c	0	.....	.....	0	0	clear	W. B. Stockman.
Fort Macon, North Carolina	30.06	763.5	30.07	763.8	50	10.0	36	nw.	11	4.9	.....	2 cs	0	nw.	.....	0	0	clear	L. Leonardy.
Fort McKavett, Texas	28.25	717.5	30.57	776.5	41.3	5.2	67	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	J. E. Thatcher.
Fort Missoula, Montana	26.92	683.8	30.30	769.6	26	— 3.3	88	ne.	3	1.3	.....	.....	10 s	.....	sw.	0	0	cloudy	J. H. Jones.
Fort St. Michaels, Alaska	30.09	764.3	30.13	765.3	5	—15.0	100	n.	3	1.3	.....	0	0	.....	.....	0	0	clear	A. P. Leavitt.
Fort Shaw, Montana	26.42	671.1	30.22	767.6	40	4.4	50	sw.	27	12.1	.....	6 cs	0	.....	.....	0	0	fair	A. L. Mathews.
Fort Sill, Indian Territory	29.27	743.4	30.56	776.2	34.5	1.4	72	ne.	1	0.4	.....	0	0	.....	.....	0	0	clear	T. Cleary.
Fort Stevenson, Dakota	28.21	716.5	30.19	766.8	12	—11.1	83	e.	2	0.9	.....	0	2 s	.....	calm	0	0	clear	W. Burrows.
Fort Verde, Arizona	.....	.....	.....	.....	34.9	1.6	49	n.	.....	.....	2	0	0	.....	.....	0	0	clear	D. Brooks.
Fort Washakie, Wyoming	24.68	626.9	.....	.....	24.3	— 4.3	48	W.	3	1.3	.....	0	0	.....	.....	0	0	clear	T. M. Ambler.
Fredericksburg, Texas	28.76	730.5	30.52	775 2	46	7.8	76	nw.	1	0.4	.....	.....	10 s	.....	.....	0	0	cloudy	H. S. Miles.
Galveston, Texas	30.47	773.9	30.51	774.9	57	13.9	36	ne.	22	9.8	.....	.....	10 s	.....	n.	0	0	cloudy	E. O'C. MacInerney.
Grand Haven, Michigan	29.36	745.7	30.06	763.5	25.0	— 3.9	88	nw.	11	4.9	.....	.....	10 n	.....	.....	0.60	15.2	light snow	W. A. Reid.
Hatteras, North Carolina	30.02	762.5	30.04	763.0	50	10.0	64	nw.	1	0.4	.....	7 ck	0	sw.	.....	0	0	fair	R. M. Crawford.
Helena, Montana	25.95	659.1	30.32	770.1	30	— 1.1	60	sw.	3	1.3	.....	0	0	.....	.....	0	0	clear	N. C. Smith.
Henrietta, Texas	29.57	751.1	30.61	777.5	38	3.3	82	calm	0	0	.....	0	5 s	.....	.....	0	0	fair	J. W. Byram
Huron, Dakota	28.96	735.6	30.44	773.2	9	—12.8	76	s.	7	3.1	.....	5 cs	0	nw.	.....	0	0	fair	S. W. Glenn.
Indianapolis, Indiana	29.35	745.5	30.19	766.8	27	— 2.8	70	nw.	12	5.4	.....	.....	10s;n	.....	nw.	Inap.	Inap.	light snow	O. Schutze
Indianola, Texas	30.50	774.7	30.53	775.4	58.1	14.5	48	ne.	23	10.3	.....	.....	10 s	.....	ne.	Inap.	Inap.	cloudy	I. A. Reed.
Jacksboro, Texas	29.36	745.7	30.56	776.2	39	3.9	65	sw.	4	1.8	.....	0	2 s	.....	s.	0	0	clear	J. P. Sherry.
Jacksonville, Florida	30.25	768.3	30.30	769.6	57	13.9	34	nw.	10	4.5	.....	0	0	.....	.....	0	0	clear	J. W. Smith.
Keokuk, Iowa	29.75	755.6	30.44	773.2	21.0	— 6.1	64	nw.	9	4.0	.....	0	0	.....	.....	0	0	clear	F. Z. Gosewisch
Key West, Florida	30.19	766.8	30.21	767.3	74.0	23.3	80	n.	2	0.9	.....	0	4 k	.....	n.	0	0	fair	L. M. Melbourne.
Kittyhawk, North Carolina	30.02	762.5	30.04	763.0	46	7.8	64	W.	4	1.8	.....	4 c;hz	0	w.	.....	0	0	fair	E. A. Beals.
Knoxville, Tennessee	29.17	740.9	30.23	767.8	39.5	4.2	30	w.	17	7.6	.....	hz.	0	.....	.....	0.02	0.5	clear	J. A. Cody.
La Crosse, Wisconsin	29.51	749.5	30.33	770.4	20	— 6.7	70	nw.	8	3.6	.....	0	0	.....	.....	0.14	3.6	clear	S. C. Emery.
La Mesilla, New Mexico	26.37	669.8	30.32	770.1	41.0	5.0	36	calm	0	0	.....	0	1 s	.....	.....	0	0	clear	N. D. Lane.
Leavenworth, Kansas	29.63	752.6	30.57	776.5	23	— 5.0	46	nw.	6	2.7	.....	0	0	.....	.....	0	0	clear	A. W. Browne.
Lewiston, Idaho	29.48	748.8	30.34	770.6	48.2	9.0	54	ne.	2	0.9	.....	.....	10 s	.....	.....	0	0	cloudy	W. Blake.
Little Rock, Arkansas	30.19	766.8	30.52	775.2	42	5.6	65	W.	5	2.2	.....	1 c	0	calm	.....	0	0	clear	M. F. Burrows.
Los Angeles, California	29.83	757.7	30.23	767.8	48.2	9.0	77	n.	5	2.2	.....	0	0	.....	.....	0	0	clear	E. F. Kubel.
Louisville, Kentucky	29.63	752.6	30.22	767.6	31	— 0.6	57	W.	25	11.2	.....	.....	9 s	.....	.....	0	0	cloudy	H. C. Smith.
Lynchburg, Virginia	29.29	744.0	30.01	762.2	43.2	6.2	28	w.	8	3.6	.....	0	0	.....	.....	0.05	1.3	clear	T. H. Breen.
Madison, Wisconsin	29.17	740.9	30.24	768.1	22	— 5.6	73	nw.	20	8.9	.....	5 cs	0	n.	.....	0.05	1.3	fair	C. A. Shaw.
Marquette, Michigan	29.40	746.7	30.17	766.3	20	— 6.7	84	nw.	12	5.4	.....	.....	10 n	.....	nw.	0.44	11.2	light snow	I. Gilligan.
Mason, Texas	28.87	733.3	30.56	776.2	43.7	6.5	72	ne.	3	1.3	.....	.....	10 s	.....	ne.	0	0	cloudy	A. M. Wilson.
Memphis, Tennessee	30.10	764.5	30.45	773.4	45	7.2	23	w.	2	0.9	.....	0	0	.....	.....	0	0	clear	D. T. Flannery.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind.		Clouds. Direction.		Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–01	Upper. 0–10	Lower. 0–10	Upper.	Lower. From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Milwaukee, Wisconsin	29.38	746.2	30.17	766.3	23	— 5.0	88	nw.	20	8.9			10 s		w.	0.06	1.5	cloudy	W. Line.
Mobile, Alabama	30.42	772.7	30.46	773.7	47	8.3	48	n.	4	1.8		1 c	0			0.14	3.6	clear	J. D. Paxton.
Montgomery, Alabama	30.13	765.3	30.37	771.4	44	6.7	49	w.	10	4.5		1 c	hz.			0.31	7.9	clear	J. B. McLaughlin.
Moorhead, Minnesota	29.21	741.9	30.29	769.4	— 5	—20.6	62	n.	5	2.2		0	0			0.35	8.9	clear	H. Bessant.
Morgantown, W. Virginia	28.94	735.1	30.00	762.0	42.5	5.8	49	w.	22	9.8			10 s		w.	0.02	0.5	cloudy	J. Sprigg, jr.
Mt. Washington, N. H.	23.31	592.1	29.83	757.7	8.0	—13.3	91	nw.	30	13.4			10n;fg		nw.	0.81	20.6	light snow	J. G. Linsley.
Nashville, Tennessee	29.76	755.9	30.32	770.1	38.5	3.6	45	nw.	7	3.1		0	0			0	0	clear	L. A. Jesunofsky.
New Haven, Connecticut	29.75	755.6	29.87	758.7	32	0.0	88	calm	0	0			10 n		sw.	0.28	7.1	light snow	J. H. Sherman.
New London, Connecticut	29.83	757.7	29.88	758.9	32	0.0	68	n.	1	0.4		5 k	3 s	n.	n.	0.11	2.8	cloudy	J. G. Lynch.
New Orleans, Louisiana	30.42	772.7	30.48	774.2	55.0	12.8	30	n.	18	8.0		1 c	0	w.		0.41	10.4	clear	A. J. Armstrong.
Newport, Rhode Island	29.83	757.7	29.88	758.9	32.3	0.2	84	ne.	4	1.8			10 s		ne.	0.45	11.4	cloudy	W. McGillivray.
New River, N. Carolina																			C. C. Corbin.
New Shoreham, Rhode I'd.	29.85	758.2	29.88	758.9	32.0	0.0	78	n.	7	3.1			10 s		n.	0.20	5.1	cloudy	W. Davis.
New York, New York	29.71	754.6	29.89	759.2	35.5	1.9	82	w	10	4.5		0	0			0.14	3.6	clear	E. B. Garriott.
Norfolk, Virginia	29.99	761.7	30.02	762.5	49	9.4	37	nw.	4	1.8		0	0			0	0	clear	J. T. Elker.
North Platte, Nebraska	27.38	695.4	30.44	773.2	30.6	— 0.8	57	sw.	4	1.8		0	0			0	0	clear	E. F. Brady.
Olympia, Washington T'y	30.32	770.1	30.36	771.1	43.0	6.1	93	s.	1	0.4			10 n		calm	0.05	1.3	light rain	J. Dascomb.
Omaha, Nebraska	29.31	744.5	30.56	776.2	16.9	— 8.4	73	nw.	6	2.7		0	0			0	0	clear	A. Pollak.
Ooglaamie, Pt. Barrow, Alas.	29.88	758.9	29.90	759.4	—19.2	—28.4	71	s.	16	7.2		hz.	4 s			0	0	fair	P. H. Ray.
Oswego, New York	29.46	748.3	29.80	756.9	31.8	— 0.1	62	sw.	7	3.1		2 c	3 k	sw.	sw.	0.31	7.9	fair	S. W. Beall.
Palestine, Texas	29.98	761.5	30.55	776.0	48	8.9	56	n.	4	1.8		0	0			0	0	clear	L. M. Pindell.
Pensacola, Florida	30.41	772.4	30.44	773.2	49.7	9.8	40	n.	9	4.0		5 c	0	w.		inap.	inap.	fair	M. McGauran.
Philadelphia, Pa	29.83	757.7	29.93	760.2	41	5.0	57	w.	4	1.8		0	0			0.26	6.6	clear	T. F. Townsend.
Pike's Peak, Colorado	17.77	451.3	30.36	771.1	10	—12.2	48	w.	12	5.4		0	0			0	0	clear	L. M. Dey.
Pioche, Nevada	24.36	618.7	30.50	774.7	30	— 1.1	54	nw.	6	2.7		0	0			0	0	clear	C. K. Kitchel.
Pittsburg, Pennsylvania	29.12	739.6	29.97	761.2	33.0	0.6	60	w.	14	6.3			10 s		w.	0.02	0.5	cloudy	J. H. Bryce.
Port Eads, Louisiana	30.45	773.4	30.46	773.7	58.2	14.6	46	n.	28	12.5		0	hz.			inap.	inap.	clear	H. G. Christian.
Port Huron, Michigan	29.24	742.7	29.96	761.0	21.0	— 6.1	96	nw.	12	5.4			10 n			0.34	8.6	light snow	W. O. Bailey.
Portland, Maine	29.82	757.4	29.87	758.7	30.0	— 1.1	82	n.	8	3.6			10 n		n.	0.17	4.3	light snow	D. C. Murphy.
Portland, Oregon	30.28	769.1	30.35	770.9	43.0	6.1	83	s.	6	2.7			10 s		s.	0.03	0.8	cloudy	M. L. Hearne.
Portsmouth, N. Carolina					53	11.7	48	nw.	25	11.2		0	0			0	0	clear	F. P. Chaffee.
Prescott, Arizona	24.97	634.2	30.31	769.9	25	— 3.9	46	n.	2	0.9		0	0			0	0	clear	J. McN. Wright.
Provincetown, Mass.	29.82	757.4	29.85	758.2	32	0.0	88	ne.	5	2.2			10 s		ne.	0.24	6.1	cloudy	P. T. Jenkins.
Punta Rassa, Florida	30.18	766.6	30.19	766.8	74	23.3	79	nw.	10	7.2		hz.	2 k		nw.	0	0	clear	W. J. Evans.
Red Bluff, California	29.93	760.2	30.31	769.9	42.2	5.7	83	n.	4	1.8		2 c	0			0	0	clear	J. M. Frantz.
Rio Grande City, Texas	30.34	770.6	30.58	776.7	52	11.1	52	ne.	8	3.6			10 s		calm	0.96	24.4	cloudy	W. H. Taylor.
Rochester, New York	29.11	739.4	29.81	757.2	26	— 3.3	100	sw.	6	2.7			10 ks		sw.	0.18	4.6	cloudy	A. T. Sherwood.
Roseburg, Oregon	29.86	758.4	30.42	772.7	39	3.9	77	nw.	2	0.9		5 c	0	w.		0	0	fair	J. J. Nanry.
Sacramento, California	30.21	767.3	30.29	769.4	47.9	8.8	86	n.	4	1.8		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.80	756.9	30.43	772.9	25.0	— 3.9	73	nw.	19	8.5		0	0			0	0	clear	J. H. Webber.
St. Paul, Minnesota	29.45	748.0	30.37	771.4	11.5	—11.4	87	w.	2	0.9		0	0			0.24	6.1	clear	O. S. M. Cone.
St. Vincent, Minnesota	29.40	746.7	30.34	770.6	—15	—26.1	100	s.	7	3.1		0	2 s		calm	0.06	1.5	clear	G. Kingsbury.
Salt Lake City, Utah	26.01	660.6	30.53	775.4	29	— 1.7	59	calm	0	0		0	0			0	0	clear	J. Craig.
San Antonio, Texas	29.84	757.9	30.55	776.0	50.0	10.0	52	n.	3	1.3		0	8 s		calm	0	0	cloudy	E. Lane.
San Diego, California	30.05	763.3	30.12	765.0	47.0	8.3	77	ne.	2	0.9		0	0			0	0	clear	A. C. Dobbins.
Sandusky, Ohio	29.26	743.2	29.98	761.5	31	— 0.6	88	w.	23	10.3			10 n			0.07	1.8	light snow	M. H. Perry.
Sandy Hook, New Jersey	29.86	758.4	29.90	759.4	37.5	3.1	82	w.	14	6.3		0	0			0.38	9.7	clear	B. A. Blundon.
San Francisco, California	30.21	767.3	30.28	769.1	50	10.0	77	sw.	7	3.1		0	0			0	0	clear	N. Gorom.
Santa Fé, New Mexico	23.46	595.9	30.44	773.2	33	0.6	81	e.	3	1.3		0	0			0	0	clear	H. N. Jones.
Savannah, Georgia	30.13	765.3	30.22	767.6	53	11.7	20	nw.	10	4.5		0	0			0	0	clear	H. M. Ford.
Shreveport, Louisiana	30.29	769.4	30.54	775.7	47	8.3	56	nw.	4	1.8		5 c	0			0	0	fair	E. N. Meekins.
Silver City, New Mexico	24.45	621.0	30.23	767.8	33	0.6	57	s.	2	0.9		0	0			0	0	clear	J. B. Wallace.
Sitka, Alaska	30.15	765.8	30.22	767.6	14.5	— 9.7	73	calm	0	0		0	0			0	0	clear	J. J. McLean.
Smithville, North Carolina	30.07	763.8	30.11	764.8	48	8.9	35	nw.	4	1.8		0	0			0	0	clear	J. C. Rickli.
Spokane Falls, Wash. Ter.	28.18	715.8	30.32	770.1	42	5.6	68	sw.	9	4.0			10 s			0	0	cloudy	D. Moore.
Springfield, Illinois	29.66	753.4	30.38	771.6	24	— 4.4	61	nw.	16	7.2		0	0			0	0	clear	T. B. Jennings.
Springfield, Massachusetts	29.74	755.4	29.88	758.9	31.8	— 0.1	78	ne.	1	0.4			10 s			0.15	3.8	cloudy	T. S. Outram.
Springfield, Mo.	29.02	737.1	30.58	776.7	31	— 0.6	73	nw.	13	5.8		0	0			0	0	clear	J. B. Marbury.
Stockton, Texas	27.38	695.4	30.46	773.7	42.2	5.7	59	calm	0	0		0	4 s		sw.	0	0	fair	J. O'Dowd.
Thatcher's Island, Mass.	29.84	757.9	29.90	759.4	34.5	1.4	89	e.	7	3.1			10 s		e.	0.09	2.3	cloudy	G. Liebmann.
Toledo, Ohio	29.26	743.2	29.98	761.5	33	0.6	78	w.	14	6.3			10 n			0.03	0.8	light snow	A. Buell.
Tucson, Arizona	27.66	702.6	30.12	765.0	52	11.1	55	se.	5	2.2		0	0			0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.99	761.7	30.37	771.4	50.0	10.0	52	sw.	10	4.5			10 s			0	0	cloudy	R. P. Sibley.
Uvalde, Texas	29.56	750.8	30.54	775.7	52	11.1	80	calm	0	0			10 s		s.	0.01	0.3	cloudy	E. C. Imlay.
Vicksburg, Mississippi	30.23	767.8	30.49	774.4	53	11.7	48	nw.	6	2.7		1 c	0	calm		0	0	clear	T. J. Kenan.
Visalia, California	29.88	758.9	30.26	768.6	43.2	6.2	86	nw.	3	1.3		0	0			0	0	clear	J. T. Cochran.
Washington, D. C.	29.86	758.4	29.98	761.5	38	3.3	72	nw.	1	0.4		4 k	0	w.		0.07	1.8	fair	B. M. Pursell.
West Las Animas, Colorado	26.35	669.3	30.43	772.9	20	— 6.7	73	nw.	6	2.7		0	0			0	0	clear	J. Grover.
Wickenburg, Arizona					41	5.0	27	calm			0	0	0			0	0	clear	H. A. Kromp.
Williamsport, Pa.	29.18	741.2	29.81	757.2	36	2.2	86	w.	5	2.2			10 ks		w.	0.11	2.8	cloudy	B. F. Hough.
Wilmington, N. Carolina	30.05	763.3	30.11	764.8	52	11.1	35	nw.	1	0.4		hz.	sk.			0	0	dense haze	S. A. Haney.
Winnemucca, Nevada	25.93	658.6	30.43	772.9	23	— 5.0	76	ne.	10	4.5		0	0			0	0	clear	J. R. Williams.
Yankton, Dakota	29.11	739.4	30.50	774.7	18	— 7.8	83	calm	0	0		0	0			0	0	clear	J. H. Atfield.
Yuma, Arizona	29.95	760.7	30.10	764.5	60.3	15.7	13	n.	8	3.6		0	0			0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.06	560.3			56.0	13.3	77	ne.	4	1.8			9 n;s		nw.	0.20	5.1	cloudy	Joaquin Gomez.
Bridgetown, Barbados, W.I.	30.05	763.3	30.06	763.5	78	25.6	82	n.				5 k	5 ks	e.	e.	0	0	fair	J. A. Racker.
Buenaventura, U. S. C.	30.03	762.7	30.05	763.3	76	24.4	95	s.	3	1.3			10 n		s.	1.95	49.5	raining	J. I. Plume.
Guadeloupe, W. I.	29.99	761.7	30.01	762.2	72	22.2	87	e.				0	1 k			0	0	clear	B. Bigar.
Havana, Cuba, W. I.	30.18	766.6	30.23	767.8	76	24.4	85	ne.	1.2	0.5		0	2 ks		ne.	0	0	fair	A. Van Caneghem.
Kingston, Jamaica, W. I.	30.13	765.3	30.14	765.5	69.0	20.6	93	calm	0	0		0	1 s		e.	0	0		Robert Johnston.
Navassa	30.14	765.5	30.22	767.6	76.5	24.7	74	ne.	5	2.2		5 ck	2 s	e.	ne.	0	0		F. M. Everett.
Paramaribo, S. A.	30.02	762.5	30.02	762.5	78	25.6	86	e.			2	5 k	8 ps	e.		0.010	0.3	cloudy	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.55	750.6	30.01	762.2	79	26.1	86	calm			0		10 s		calm	1.45	36.8	foggy	Miss Flora A. Nichols.
Rivas								ne.			3	0	k		ne.	0	0	clear	Robert Mason.
Santiago de Cuba, W. I.	30.11	764.8	30.14	765.5	73	22.8	71	calm	0	0		2 c	0			0	0	fair	
York Factory, B. A.	30.93	785.6	30.98	786.9	—22.0	—30.0		nw.	12	5.4		1 c	2 s	nw.	nw.	0	0	fair	W. Wood.

STATIONS AND VESSELS.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
BRITISH NAVAL.																		
H. M. S. Agincourt, N. 39° 11′, E. 9° 06′	29.93	760.2	60	15.6	94	se.			2		8							misty.
H. M. S. Alert, S. 5° 24′ E. 53° 18′	29.82	757.4	89.2	31.8	72	e.			1		4							d. clouds.
H. M. S. Alexandra, Malta, Mediterranean	30.09	764.3	69	20.6	56	ssw.			2		7	ssw.						d. clouds.
H. M. S. Bacchante, Alexandria, Egypt	30.09	764.3	62	16.7	77	wnw.			3		3	wnw.						squally.
H. M. S. Boadicea, S. 34° 11′, E. 18° 26′	30.07	763.8	69	20.6	56	ese.			6-7		1	se.						d. clouds.
H. M. S. Comus, Labuan Island, Borneo	29.91	759.7	78	25.6	?	n.			1		3							d. clouds.
H. M. S. Daring, N. 17° 59′ E. 117° 49′	29.97	761.2	74	23.3		ene.			6		3	wsw.				5-6	ne.	d. clouds.
H. M. S. Diamond, S. 33° 10′, E. 113° 40′	29.65	753.1	65.5	18.6	.81	w.			4-5		2					2-3	w.	d. clouds.
H. M. S. Dido, N. 16° 00′, W. 61° 45′	30.11	764.8	75	23.9		ese.			1		0							blue sky.
H. M. Dock Yard, Bermuda, W. I.	30.05	763.3	66	18.9	84	s			3-4		3	ssw.						d. clouds.
H. M. S. Dwarf, S. 34° 54′, W. 56° 10′	30.04	763.0	63	17.2	88	s.			3-4		8					2-3	s.	squally.
H. M. S. Eclipse, S 16° 01′, E. 44° 28′	29.89	759.2	84	28.9		nne.			2-3		2							d. clouds.
H. M. S. Espiegle, S. 36° 20′, E. 96° 31′	30.24	768.1	57	13.9	81	se.			5		10					7	se.	overcast.
H. M. S. Euryalus, N. 15° 29′ E. 41° 47′	29.80	756.9	82	27.8	78	se.			5-6		1	calm				3	se.	blue sky.
H. M. S. Fawn, N. 15° 04′ E. 42° 14′	29.75	755.6	80.5	26.9	75	s.			3		4	ne.				3	s.	misty.
H. M. S. Flying Fish, N. 34° 41′, E. 135° 12′	29.80	756.9	48	8.9	85	se.			1		6	n.						misty.
H. M. S. Gannet, S. 32° 25′, W. 74° 00′	29.98	761.5	60	15.6	85	ese.			1		10					4	ssw.	overcast.
H. M. S. Garnet, S. 39° 54′ W. 58° 11′	30.05	763.3	56	13.3	80	s.			6		3					5		d. clouds.
H. M. S. Inconstant, S. 21° 30′, E. 76° 30′	29.98	761.5	80	26.7	82	n.			3		3	nne.				3	sse.	d. clouds.
H. M. S. Iron Duke, N. 22° 16′ E. 114° 10′	30.18	766.6	62	16.7	83	ne.			3-4		10	ne.						overcast.
H. M. S. Lark, S. 31° 17′, E. 170° 32′	30.12	765.0	68.3	20.2		e.			2		4					2	w.	d. clouds.
H. M. S. Liffey, Coquimbo, Chili	29.97	761.2	60	15.6		calm			0		10							overcast.
H. M. S. Magpie, N. 25° 46′, E. 121° 33′	30.29	769.4	54.5	12.5	60	ne.			4		0					5	ne.	blue sky.
H. M. S. Malabar, N. 12° 40′, E. 45° 17′	29.93	760.2	82	27.8	95	e.			5		5	ene.				4	ene.	d. clouds.
H. M. S. Orontes, N. 22° 35′ E. 36° 53′	29.83	757.7	75.5	24.2	87	nnw.			3		4	n.				2	nnw.	d. clouds.
H. M. S. Rambler, St. Paul de Loando, Benguela	29.81	757.2	79	26.1		wnw.			1		7	calm						d. clouds.
H. M. S. Ready, Muscat, Arabia	30.03	762.7	84.1	28.9		wnw.			1		1							blue sky.
H. M. S. Rocket, Vancouver Id., B. C.	30.26	768.6	43	6.1	91	calm			0		8							heavy rain.
H. M. S. Sea Gull, S. 5° 44′, E. 43° 09′	29.24	742.7	84	28.9	87	ne.			1-2		2	nne.				3	ene.	d clouds.
H. M. S. Serapis, N. 36° 15′ W. 4° 30	30.00	762.0	65	18.3	73	calm			0		5	ene.				1	sse.	d. clouds.
H. M. S. Tenedos, N. 19° 35′ W. 74° 13′	30.15	765.8	76.5	24.7	84	ene.			3		1					1	ne.	blue sky.
H. M. S. Thalia, S. 23° 46′, W. 27° 53′	30.07	763.8	78	25.6		n.			3		6	wsw.				2	n.	d clouds.
H. M. S. Triumph, S. 32° 35′, W. 73° 42′	30.00	762.0	60	15.6	88	var.			1-2		10	calm				3	se.	d. clouds.
H. M. S. Woodlark, Bombay, India	29.90	759.4	82.5	28.1	79	ssw.			3-4		1	se.						misty.
PORTUGUESE NAVAL.																		
Quanza, Santiago, Cape Verd Is.	30.02	762.6	74.3	23.5	71	ne.			3		5		sw.			2	ne.	d. clouds.
Rio Sima, Porto Praya, Cape Verde Islands	30.08	764.0	77.0	25.0	92	nne.			3		1		nne.			2		blue sky.
Tamega, Macao, China	30.08	764.1	64.4	18.0	80	e.			3		10					1		overcast.
UNITED STATES NAVAL.																		
Navy Yard, Pensacola, Fla.	30.33	770.4	51	10.6	35	n.	3	1.3			2		ne.	0	0			fair.
N. Yard, Portsmouth, N. H.	29.94	760.5	29	— 1.7	?	ne.	7	3.1			10		ne.	0	0			cloudy.
Naval Hospital, Yokohama, Japan	29.36	745.7	46	7.8	65	calm			0		0			0.56	14.2			clear.
Adams, Callao, Peru	29.76	755.9	68	20.0	95	sse.			1-2		0					gr'd		clear.
Alaska, S. 31° 04′, W. 72° 13′	29.95	760.7	61	16.1	88	nnw.			1		10	n.		0	0	long	w.	cloudy.
Alert, N. 20° 07′, E. 116° 29′*	29.95	760.7	69	20.6	80	nne.			6		10	nne.				long	nne.	cloudy.
Alliance, Kingston, Jamaica	30.07	763.8	76	24.4	82	n.			0-1		2			0	0	sm'h		clear.
Ashuelot, N. 32° 37′ E. 126° 52′	30.15	765.8	47	8.3	77	nnw.			7		5	n.				r'gh	nnw.	fair.
Brooklyn, Montevideo, Uruguay	30.06	763.5	63	17.2	94	s.	15	6.7			8	s.		0	0	mod.	s.	fair.
Colorado, New York, N. Y.	29.86	758.4	37	2.8	71	w.	4	1.8			0			0.03	0.8			clear.
Enterprise, N. 14° 45′ W. 62° 27½	30.06	763.5	77	25.0	86	nne.			3		2							clear.
Essex, N. 6° 26′ W. 12° 41′	29.95	760.7	83	28.3	79	sw.			1		5?					sm'h	w.	cloudy.†
Franklin, Norfolk, Va.	30.04	763.0	47	8.3	55	nnw.	6	2.7			0			0*	0			clear.
Galena, Palermo, Sicily	29.96	761.0	72	22.2	58	sw.			3		2					sm'h		clear.
Independence, Mare Island, Cal.	30.12	765.0	45	7.2	92	calm			0		0			0	0			clear.
Kearsarge, N. 19° 12′ W. 77° 25	30.14	765.5	79	26.1	70	e.			3		8		ese.			sm'h	ese.	cloudy.
Lackawana, S. 31° 19′ W. 72° 00′†	30.10	764.5	63	17.2	94	nnw.			2		10		nnw.			sm'h	nw.	cloudy.
Lancaster, Piraeus, Greece*	30.05	763.3	65	18.3	68	ssw.			1-2		2		sw.	0	0			fair.
Marion, S. 33° 54′, E. 18° 24′*†	30.14	765.5	75	23.9	72	se.			6		0			0	0	sm'h		clear.
Michigan, Erie, Pa.	29.78	756.4	30	— 1.1	100	wsw.			5		10		w.					snowing
Minnesota, Newport, R. I.	29.86	758.4	33	0.6	89	calm	0	0			10							overcast.
Monocacy, N 35° 01′ E. 138° 32′	29.53	750.0	51	10.6	72	wsw.			2		0							clear.
New Hampshire, Newport, R. I.	29.82	757.4	32	0.0	90	nne.			1		0		ne.			sm'h		cloudy.
Nipsic, N. 36° 23′, W. 2° 24′	30.02	762.5	63	17.2	62	nne.			1		2					sm'h		clear.
Onward, Callao, Peru†	30.07	763.8	65	18.3	100	sse			2		2		n.			long	w.	clear.
Palos, Pat-sit Ana Bay, China	29.90	759.4	42	5.6	58	wnw.			2		2		calm					clear.
Passaic, Washington, D. C.	29.97	761.2	38	3.3	100	calm			0		5		w.					fair.
Pensacola, Callao, Peru	29.96	761.0	67	19.4	89	sse.	1	0.4			2			0	0	sm'h		fair
Portsmouth, Alexandria, Va.	29.96	761.0	36	2.2	90	e.			1		2		w.			sm'h		clear.
Powhatan, N. 12° 10′, W. 61° 45′	30.06	763.5	81	27.2	74	ene.			2		2		e.			sm'h		clear.
Quinnebaug, Messina, Sicily	30.02	762.5	64	17.8	53	ssw.			4		0					sm'h		fair.
Ranger, N. 18° 50′, W. 104° 00′*	29.97	761.2	72	22.2	90	n.			1		2		calm	0	0	mod	s.	hazy.
Richmond, Yokohama, Japan*	29.46	748.3	49	9.4	71	nne.			1		2		n.	0	0			fair.
Shenandoah, St. Lucia, W. I.*	30.14	765.5	78	25.6	73	nne.			2-3		2		nne.			sm'h		cloudy.†
St. Louis, League Island, Pa.	30.14	765.5	41	5.0	64	w.	7	3.1			2			0.05	1.3			clear.
Swatara, Kobe, Japan*	29.68	753.9	45	7 2	68	e.			1		2		e.			sm'h		fair.
Tennessee, New Orleans, La.	30.46	773.7	56	13.3	38	nne.	26	11.6			0			0.2	5.			squally.
Vandalia, Key West, Florida†	30.26	768.6	75	23.9	86	nnw.			1		2		n.					fair.
Wabash, Boston, Mass.	29.88	758.9	31	— 0.6		nnw.	2	0.9			8		n.	0	0			hazy.
Wachusetts, Sitka, Alaska	30.12	765.0	15	— 9.4		e.			1		0			0	0			clear.
Wyoming, Port Royal, S. C.	30.23	767.8	52	11.1	66	w.	14	6.3			2		sw.	0	0			clear.
Yantic, Very Cruz*	30.20	767.1	72	22.2	95	nnw.			5-6		10							rainy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.			Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Amount and kind.		Direction.						
								Force.	Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																	
S. S. Peruvian, N. 43° 30′, W. 45° 10′*	29.97	761.2	48	8.9		s.			5	7		s.	1 h'r	1 h'r	mod.	s.	cloudy.
S. S. Polynesian, Off Sambro, N. S*..	29.63	752.6	20	—6.7		ene.			3	10			3 h'r	3 h'r	sm'h		light snow.
S. S. Prussian, Glasgow, Scotland*	30.21	767.3	46	7.8		wnw.			2	4		nw.					fair.
S. S. Waldensian, Glasgow, Scotland*	30.26	768.6	43	6.1		w.			4	2		nw.	7 h'r	7 h'r			showery?
AMERICAN STEAMSHIP COMPANY.																	
S. S. British Crown, Mersey River, Eng†	29.16	740.7	37	2.8		nnw.			7	5		n.	o	o			fine.
S. S. Illinois, Liverpool, Eng	30.16	766.1	46	7.8	92	n.			6	2		n.					clear.
S. S. Indiana, N. 43° 18′, W. 41° 05′†	30.43	772 9	55	12.8	50	ne.			1	8?		nne.	o	o	mod.	ne.	clear.?
S. S. Ohio, Philadelphia, Penn			41	5.0	91	w.			3	2		sw.					clear.
ANCHOR LINE.																	
S. S. Utopia, N. 34° 27′, W. 43° 00′*†	30.10	764.5	69	20.6	90	se.			4	7		ssc.	8 h'r	8 h'r	cross	se.	cloudy.
ATLAS LINE.																	
S. S. Ailsa, Savantilla, U. S. C.†	29.96	761.0	76	24.4	81	ne.			2	2		ne.	o	o			fine.
S. S. Arden, N. 18° 28′, W. 66° 07′															sm'h	nne.	cloudy.
S. S. Athos, Kingston, Jamaica, W. I.	29.83	757.7								0			o	o			clear.
BRITISH METEOROLOGICAL OFFICE.																	
S. Auckland, N. 26° 57′, W. 38° 17′	30.10	764.5	68	20.0		s.			6	10							raining.
S. Baroda, S. 27° 34′, E. 78° 13′	29.98	761.5	74.5	23.6	93	nnw.			5	9							overcast.
British Merchant, N. 11° 45′, E. 91° 20′	29.89	759.2	86	30.0	74	w.			1	1							misty.
Caldew, N. 21° 17′, W. 37° 44′	30.12	765.0	72 9	22.7		ese.			6	8							misty.
Bk. Commewyne, N. 31° 08′, W. 55° 48′	30.21	767 3	67.1	19.5	67	e.			2	3							d. clouds.
Bk. Coppename. N. 51° 15′, W. 8° 03′	30.43	772.9	49	9.4	57	nnw.			4	0							blue sky.
S. S. Gordon Castle, N. 2° 45′, W. 104° 22′	29.83	757.7	83.5	28.6	77	ne.			2	2							d. clouds.
Brig Hermine, S. 4° 58′, W. 28° 45′	29.94	760.5	81.2	27.3	83	ese.			5	4							d. clouds.
S. Lochee, N. 40° 20′, W. 35° 35′	30.22	767.6	51.5	10.8	100	nnw.			1	10							drizzling.
S. S. Minho, N. 41° 36′, W. 9° 52′	30.25	768.3	57.9	14.4	72	n.			7	6							d. clouds.
CUNARD LINE.																	
S. S. Scythia, N. 45° 16′, W. 39° 34′†	30.15	765.8	53	11.7	93	wnw.			3	8		ne.	o	o	mod.	con.	fair.
GENERAL TRANS-ATLANTIC COMPANY.																	
S. S. Canada, N. 46° 44′, W. 31° 00′	30.35	770.9	50.0	10.0		s.			5	8		ssw.	o	o		ssw.	
HAMBURG AMERICAN PACKET COMPANY.																	
S. S. Bohemia, New York, N. Y.*†	29.76	755 9				w.			4	3		nw.	light	light			fine.
S. S. Gellert, N. 43° 33′, W. 43° 30′	30.29	769.4	55	12.8		se.			2	8		e.	o	o	mod.	s.	cloudy.
S. S. Lessing, Gluckstadt, Germany			55	12.8		nnw.			2	8		w.	o	o			cloudy.
S. S. Silesia, Elbe River, Germany*†	29.78	756.4	44.4	6.9		var.			2	5		nw.	o	o			d. clouds.
JOHNSTON LINE.																	
S. S. Thanemore, N. 43° 34′, W. 42° 49′	30.32	770.1				s.			2	8		s.	o	o	slight		fine.
MALLORY LINE.																	
S. S. Colorado, Galveston, Texas†	30.50	774.7	58	14.4		n.			4	8		n.	o	o			overcast.
MERCHANTS' EXPRESS LINE.																	
S. S. Freja, N. 44° 52′, W. 38° 27′†	30.21	767.3	55	12.8	87	w.			5	1		nw.	6 h'r	6 h'r	cross	e.	fine.
S. S. Hermod, Havre, France*†	29.80	756.9	50.0	10.0		nnw.			7	7		nw.	o	o			cloudy.
NATIONAL LINE.																	
S. S. Erin, New York, N. Y.						nw.			6	o			6 h'r	6 h'r			fine.
S. S. Italy, N. 40° 50′, W. 53° 20′	29.92	760.0				s.			8	10		sw.	o	o	r'gh	ssw.	cloudy.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																	
S. S. Niagara, Havana, Cuba, W. I*†	30.25	768.3	74	23.3		calm			0	0							clear.
NEW YORK HERALD WEATHER SERVICE.																	
S. S. Alvena, N. 17° 56′, W. 66° 40′*†	29.99	761.7	67	19.4		s.			1						sm'h		clear.
S. S. Atlas, N. 22° 00′, W. 74° 18′*†..	30.28	769.1	76	24.4		e.			4						sm'h		clear.
S. S. Bothnia, N. 49° 25′, W. 27°, 00′	30.17	766.3	53	11.7		sw.			6						high	wsw.	rainy.
S. S. Maas, N. 39° 45′, W. 52° 36′*	29.95	760.7	53	11.7		ssw.			1						high	sw.	
S. S. New York, N. 33° 15′, W. 78° 05′*†	30.18	766.6	58	14.4		nw.			4							sw.	clear.
S. S. Olbers, S. 2° 40′, W. 29° 00′†*	29.98	761.5	82	27.8		se.			4–5						slight	se.	clear.
NORTH GERMAN LLOYD.																	
S. S. Elbe, N. 41° 58′, W. 48° 10′	30.18	766.6	51.8	11.0		sse.			6	10		sse.	o	o	mod.	sse.	misty.
S. S. Hermann, N. 41° 20′, W. 48° 56′*†	30.20	767.1	55.4	13.0		ssw.			6	9		ssw.	o	o	long	ssw.	fair.
S. S. Koln, N. 49° 34′, W. 10° 59′*	30.47	773.9	52.0	11.1	63	nne.			4	8		nne.	o	o	high	nw.	fine.
S. S. Leipzig, N. 47° 41′, W. 29° 04′	30.31	769.9	56.5	13.6	90	w.			6	10		w.	2 h'r	2 h'r	cross	w.	squally.
S. S. Main, N. 52° 56′, E. 4° 10′*	29.85	758.2	42.4	5.8		nw.			5–6	8		nw.	o	o	mod.	n.	fine.
S. S. Neckar, N. 49° 53′ W 4° 57′	30.27	768.8	46.0	7.8		n.			6	3		n.	½ h'r	½ hr	mod.	n.	clear.
S. S. Nurnburg, N. 14° 26′, W. 25° 02′*	30.02	762.5	77.0	25.0	63	nne.			4	0			o	o	4	nne.	hazy.
S. S. Oder, N. 42° 32′, W. 49° 59′	30.03	762.7	52.2	11.2		sse.			5	8		s.	rain	rain	mod.	ssw.	misty.
S. S. Ohio, Bremerhaven, Germany	29.78	756.4				ne.			4	6		ene.	o	o			fair.
S. S. Strassburg, N. 49° 42′, W. 7° 00′	30.37	771.4	49.0	9.4	93	n.			6	5		nw.	o	o	r'gh	nnw.	fair.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																	
S. S. Belgic, N. 35° 55′. E. 146° 12′†	29.50	749.3	64	17.8	52	sw.			5	5		w.	o	o	high	e.	fair.
S. S. Gaelic, Hong Kong, China. †	30.09	764.3	64	17.8	83	ese.			2	10		s.					overcast.
S. S. Oceanic, N. 35° 22′, W. 147° 25′*	29.84	757.9	61	16.1	88	s.			6	7		s.			3	s.	cloudy.
OCEAN STEAMSHIP COMPANY.																	
S. S. City of Augusta, New York, N. Y†	29.83	757.7				wsw.			4	10			snow	snow			snowing.
S. S. Seminole, Boston, Mass†	29.87	758.7	34	1.1	79	n.			1	8		nw.	12 h'r	12 h'r			cloudy.
OREGON IMPROVEMENT COMPANY.																	
S. S. Mississippi, N. 42° 51′, W. 124° 40′†	30.45	773.4	47	8.3	85	ese.			1	5		s.			mod.	wnw.	fair.
OREGON RAILWAY AND NAVIGATION COMPANY.																	
S. S. Columbia, N. 43° 32′, W. 124° 35′†	30.29	769.4	46	7.8	81	sse.			1	1		calm	o	o	sm'h		clear.
S. S. Oregon, Portland, Oregon†	30.43	772.9	44	6.7	92	calm			0	10							raining.
PACIFIC COAST STEAMSHIP COMPANY.																	
S. S. Ancon, N. 37° 15′, W. 122° 23′†	30.22	767.6	51	10.6	93	nw.			2	0					mod.	w.	clear.
S. S. Geo. W. Elder, N. 44° 30′, W. 124° 35′†	30.49	774.4	46	7.8		calm			0				o	o	light	nw.	clear.
S. S. Idaho, N. 44° 45′, W. 124° 47′†.	30.35	770.9	45	7.2	92	sse.			5	10		sse.			light	w.	stormy.
S. S. Orizaba, N. 33° 42′ W. 118° 42′†	30.12	765.0	62	16.7	56	se.			1			nw.	o	o	light	nw.	clear.
S. S. State of California, San Francisco, Cal†	30.28	769.1	49	9.4	85	n.			2	o			o	o			clear.
S. S. Victoria, San Francisco, Cal. †	30.27	768.8	45	7.2	92	sw.			3	o							clear.
PACIFIC MAIL STEAMSHIP COMPANY.																	
S. S. Australia, Sydney, N. S. W	30.05	763.3	69	20.6	90	nw.			1		5?	nw.	o	o			clear ?
S. S. City of New York, N. 15° 10′ W. 160° 30′†	29.99	761.7	78	25.6	86	se.			3	8			o	o	sm'h	ne.	overcast.
S. S. City of Pekin, N. 13° 40′, W. 91° 12′†	29.97	761.2	80	26.7	78	ese.			2				o	o	sm'h		hazy.
S. S. City of Rio de Janeiro, N. 17° 06′, W. 101° 05′†	30.14	765.5	79	26.1	78	w.			1	o			o	o	sm'h		clear.
S. S. City of Sydney, Sydney, N. S. W.†	30.17	766.3	68	20.0	79	n.			3	2		se.	o	o	sm'h		fair.
S. S. City of Tokio, N. 35° 11′ W. 147° 32′†	29.94	760.5	61	16.1	88	sw.			6	8		s.	15 h'r	15 h'r	mod.	sw.	cloudy.
S. S. Clyde, N. 25° 55′, W. 114° 05′†	30.03	762.7	60	15.6	88	var.			1	o			o	o	light	nnw.	clear.
S. S. Colon, N. 32° 09′, W. 74° 04′†	30.06	763.5	71	21.7		wnw.			5	10		sw.			mod.	wsw.	cloudy.
S. S. South Carolina, N. 7° 43′, W. 79° 51′†	30.01	762.2	73	22.8	63	n.			4	2		n.	o	o	light	wsw.	fine.
RED STAR LINE.																	
S. S. Nederland, N. 49° 14′, W. 11° 16′*†	30.50	774.7	50	10.0		nne.			1	1		n.	o	o	mod.	nnw	
S. S. Rhynland, Jersey City, New Jersey	29.89	759.2	37	2.8	62	wnw			2	o			0.27	0.9			clear.
S. S. Switzerland, N. 48° 50′ W. 17° 55′†	30.59	777.0				w.			2	10		w.	o	o	long	wnw.	clear.
S. S. Vaderland, N. 40° 31′, W. 55° 08′	29.86	759.2	63	17.2		ssw.			8	8		sw.	8 h'r	8 h'r	r'gh	sw.	cloudy.
S. S. Waesland, Antwerp, Belgium	29.88	758.9	48	8.9		nne.			6	8		n.	o	o			hazy
ROTTERDAM LINE.																	cloudy.
S. S. W A. Scholten, N. 49° 25′, W. 7° 50′*	30.34	770.6	57.0	13.9	69	nne.			6				o	o	mod.	nnw.	
THINGVALLA LINE.																	
S. S. Thingvalla, Copenhagen, Denmark†	29.81	757.2	44.6	7.0		wsw.			1	5		wsw.	1 h'r	1 h'r			covered.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.			Force.	Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.			Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
WHITE STAR LINE.																		
S. S. Adriatic, Queenstown, Ireland†*	30.49	774.4	49	9.4	.....	n.	.....	.....	2	.....	2	.....	n.	0	0	sm'h	.....	d. clouds.
S. S. Britannic, N. 44° 29′, W. 43° 18′*†	30.00	762.0	57	13.9	.....	sw.	.....	.....	3	.....	10	.....	.....	0	0	mod.	sw.	overcast.
S. S. Celtic, New York, N. Y.†..	29.81	757.2	39	3.9	91	nne.	.....	.....	3	.....	5	.....	sw.	2 h'r	2 h'r	.....	.....	fair.
S. S. Republic, N. 42° 20′, W. 48° 16′†.....	30.18	766.6	52	11.1	86	s.	.....	.....	6	.....	7	.....	s.	0	0	mod.	s.	cloudy.
WILSON LINE.																		
S. S. Romano, Off Cromer, Eng*†.....	29.94	760.5	41	5.0	.....	n.	.....	.....	2	.....	10	.....	n.	4 h'r	4 h'r	r'gh	nw.	cloudy.
S. S. Salerno, N. 40° 31′, W. 51° 14′†.....	30.02	762.5	60	15.6	.....	s.	.....	.....	6	.....	10	.....	ssw.	.....	.....	mod.	ssw.	hazy.
WINSOR LINE.																		
S. S, Catherine Whiting, Philadelphia, Pa.†.....	29.96	761.0	.....	.....	.....	w.	.....	.....	3	.....	.....	.....	.....	.....	.....	.....	.....	
MISCELLANEOUS.																		
Schr. Addie Fuller, Cedar Keys, Florida†.....	30.37	771.4	57	13.9	34	n.	.....	.....	4	3 cs	0	n.	.....	0	0	.....	.....	clear.
Schr. Annie M. Smull, S. 25° 24′. W. 30° 20′*†.....	30.00	762.0	79	26.1	.....	ne.	.....	.....	.....	.....	2	.....	ene.	2 h'r	2 h'r	.....	sw.	clear.
Bk. Bergenseren, N. 35° 48′, W. 28° 14′†.....	30.37	771.4	.....	.....	.....	e.	.....	.....	4	.....	.....	.....	e.	0	0	1	e.	overcast.
Bk. Celestina, N. 10° 47′ W. 35° 33′*†.....	29.96	761.0	.....	.....	.....	e.	.....	.....	3	.....	2	.....	e.	0	0	mod.	ne.	hazy..
S. S. Compton, N. 26° 25′ W 80° 02′†.....	30.22	767.6	.....	.....	.....	wnw.	.....	.....	3	.....	5	.....	wnw.	0	0	sm'h	.....	clearing.
Bk. E. L. Pettingill, S. 17° 41′ W. 100° 53′†.....	30.20	767.1	.....	.....	.....	ese.	.....	.....	2	.....	2	.....	ese.	0	0	sm'h	.....	
Festina Lente, N. 59° 11′, E. 10 39′*.....	29.88	758.9	.....	.....	.....	nnw.	.....	.....	7	.....	5	.....	nnw.	6 h'r	6 h'r	h'vy	nw.	fair.
U. S. F. C. S. Fish Hawk, Annapolis, Md†.	30.07	763.8	40	4.4	100	wsw.	.....	.....	2	.....	4	.....	calm	0	0	.....	.....	clear.
Bk. Freya, Baltimore, Md.....	.....	.....	40	4.4	.....	nw.	.....	.....	3	.....	8	.....	nnw.	0	0	.....	.....	fair.
S. Grecian, N. 0° 10′, W. 28° 30′*†.....	29.90	759.4	80	26.7	.....	se.	.....	.....	3	.....	1	.....	se.	0	0	sta'h	n.	clear.
Bk. Geo. Booth, S. 34° 58′, E. 14° 42′*†.....	30.15	765.8	.....	.....	.....	sse.	.....	.....	6	.....	5	.....	.....	0	0	r'gh	sse.	
Bk. Granville, S. 24° 18′, W. 29° 13′*†.....	30.19	766.8	.....	.....	.....	ne.	.....	.....	1	.....	.....	.....	ne.	0	0	long	ne.	clear.
S. Hedwig, N. 57° 49′, W. 0° 18′.....	29.97	761.1	39.7	4.3	83	nnw.	.....	.....	9	.....	4	.....	n.	7 h'r	7 h'r	7	n.	stormy.
Schr. Henry Denison, Georgetown, Brit. Guiana.†.....	29.92	760.0	.....	.....	.....	ne	.....	.....	4	.....	3	.....	ne.	0	0	.....	.....	fair.
Bk. Johanne Auguste, S 4° 14′. E. 89° 03′*.....	29.74	754.4	.....	.....	.....	ese..	.....	.....	1	.....	1	.....	.....	0	0	sm'h	.....	fair.
Bg John Wesley, N. 28° 40′, W. 72° 27′†.....	30.29	769.4	67	19.4	.....	n.	.. ..	.....	6	.....	1	.....	nne.	0	0	rg'h	n.	clear.
Bkt. Josephine, N. 21° 15′, W. 71° 16′*†.....	30.30	769.6	78	25.6	73	e.	.....	.....	4	.....	1	.....	ese.	0	0	mod.	.....	clear.
Bkt. Kryolith, N. 41° 05′, W. 11° 30′*†.....	30.23	767.8	.....	.....	.....	nne.	.....	.....	8	.....	2	.....	nne.	0	0	hv'y	nne.	clear.
Schr. Maggie Abbott, N. 25° W. 75°*†.	30.18	766.6	.....	.....	.....	s.	.....	.....	2	.....	.....	.....	ssw.	0	0	long	nne.	clear.
S. S. Nebo, N. 24° 45′, W. 59° 07′*†.....	30.05	763.3	.....	.....	.....	ne.	.....	.....	2	.....	1	.....	ne.	0	0	long	n.	clear.
Bk. Peppina, N. 38° 48′, E. 3° 05′†.....	29.90	759.4	61	16.1	88	nw.	.....	.....	4	.....	5?	.....	nw.	.....	.....	mod.	nw.	cloudy?.
Bk. Pilgrim, S. 41° 45′, E. 98° 03′*†.....	30.20	767.1	.....	.....	.....	s.	.....	.....	3	.....	.....	.....	w.	0	0	cross	s,tow	cloudy.
Bg. Potomac, N. 36° 15′, W. 74° 50′*†.....	29.95	760.7	.....	.....	.....	nnw.	.....	.....	1	.....	.....	.....	nw.	.....	.....	light	se.	clear.
Bkt. Spotless, N. 28° 28′, W. 44° 21′*†.....	30.00	762.0	.....	.....	.....	n.	.....	.....	.....	.....	.....	.....	n.	.....	.....	hv'y	se.	clear.
Bk. Stella, S. 56° 56′, W. 68° 05′*.....	29.21	741.9	46.8	8.2	95	nw.	.....	.....	9	.....	10	.....	nw.	.....	.....	rg'h	w.	raining.
Bk. Sunbeam, N. 37° 21′, W. 74° 32′*†.....	30.01	762.2	44	6.7	84	nnw.	.....	.....	3	.....	2	.....	.....	0	0	sm'h	.....	clear.
Bg. Waubura, S. 13° 26′, W. 15° 29′*†.....	30.10	764.5	.....	.....	.....	ese.	.....	.....	5	.....	3	.....	ene.	.....	.....	sm'h	.....	
S. Wm. Woodbury, N. 54° 42′, E. 5° 30′*†.....	29.82	757.4	52	11.1	86	ssw.	.....	.....	2	.....	1	.....	w.	.....	.....	sm'h	w.	clear.

Data, as appearing in the International Bulletin of similar date.

Isobars in *black* exhibit atmospheric pressure at sea-level, and are charted from data as reported by the several observers.

Isotherms in *red* exhibit temperature of air, similarly charted.

Broken or dotted lines indicate that the lines so broken are doubtful.

Arrows, when charted, fly with the wind and exhibit wind-direction and force.

PUBLISHED BY ORDER OF THE SECRETARY OF WAR.

W. B. Hazen

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

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INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON MARCH 23, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours	.....	.....	30.02	762.5	51.8	11.0	92	wsw.	.....	.....	6	.....	10	.....	.....	0.366	9.3	covered.....	Moiroud.
Algiers	.....	.....	29.95	760.6	50.4	10.2	84	n.	.....	.....	2	.....	10	.....	.....	0.539	13.7	covered.....	Nicolas.
La Calle	.....	.....	29.84	758.0	59.4	15.2	91	wsw.	.....	.....	4	.....	6	.....	.....	0.492	12.5	cloudy	Fonfrède.
Tunis	.....	.....	29.79	756.7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	29.99	761.7	42.1	5.6	100	n.	.....	.....	3	.....	6	.....	.....	0.079	2.0	cloudy	Dumas.
Tebessa	.....	.....	29.89	759.3	68.4	20.2	23	sw.	.....	.....	7	.....	3	.....	.....	inap.	inap.	pretty fair...	Derché.
Geriville	.....	.....	.....	.....	50.4	10.2	80	nw.	.....	.....	3	.....	6	.....	.....	0.039	1.0	cloudy	Louchamp.
Laghouat	.....	.....	.....	.....	58.6	14.8	60	sw.	.....	.....	6	.....	0	.....	.....	0	0	clear.....	Herbin.
Biskra	.....	.....	.....	.....	72.0	22.2	43	nnw.	.....	.....	4	.....	6	.....	.....	0.008	0.2	cloudy.....	Malau.
Australian.																			
Melbourne, Victoria	29.98	761.5	30.07	763.8	65.8	18.8	70	se.	4	1.8	.....	.....	1	.....	.....	0	0	fine.....	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.26	743.2	29.81	757.1	53.2	11.8	74	ne.	.....	.....	1	.....	10	.....	.....	0.024	0.6	raining.....	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.13	740.0	29.90	759.5	52.5	11.4	71	nne.	3.1	1.4	.....	.....	7	.....	.....	0.004	0.1	.....	Dr. Wierzbiski.
Eperies	29.04	737.6	29.90	759.5	60.8	16.0	50	calm	.....	.....	0	.....	9 8	.....	n.	0	0	.....	Julius Mikolik.
Gratz	28.66	727.9	29.94	760.5	39.9	4.4	87	ne.	.....	.....	3	.....	10	.....	.....	0.516	13.1	.....	Andreas Rospini.
Hermannstadt	28.57	725.6	29.95	760.8	67.5	19.7	86	s.	.....	.....	3	.....	3	.....	.....	0	0	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.60	726.3	29.98	761.6	35.6	2.0	85	wnw.	.....	.....	1	.....	10	.....	.....	0.138	3.5	rain &snow.	The Staff.
Lemberg	28.95	735.3	29.91	759.8	62.1	16.7	40	se.	.....	.....	2	.....	7	.....	.....	0	0	.....	Dr. T. Stanecki.
Pola	29.62	752.3	29.73	755.1	55.9	13.3	87	sse.	.....	.....	3	.....	10	.....	.....	0.299	7.6	.....	I. R.Hydrographic Office.
Szathmar	29.47	748.5	29.93	760.2	68.4	20.2	30	se.	.....	.....	2	.....	6	.....	.....	0	0	.....	Joseph Midlinszky, S. J.
Szegedin	29.60	751.8	29.87	758.8	62.6	17.0	52	s.	.....	.....	4	.....	8	.....	.....	0	0	.....	Karl Stancel.
Trieste	29.66	753.4	29.76	756.0	54.3	12.4	87	e.	.....	.....	1	.....	10	.....	.....	1.091	27.7	raining.....	Rieder.
Vienna	29.23	742.5	29.97	761.2	39.2	4.0	81	nw.	.....	.....	1	.....	10	.....	.....	0.055	1.4	.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.70	754.4	29.80	756.9	47.0	8.3	71	ssw.	13	5.8	.....	.....	7	.....	.....	0.020	0.5	d. clouds....	W. Boswell.
Armagh, Observatory	29.71	754.6	29.96	761.0	48.2	9.0	90	sw.	6	2.7	.....	.....	10	.....	.....	.....	.....	gloomy.....	S. Call.
Bidston, Liverpool Obs'y	.....	.....	30.02	762.5	50.8	10.4	75	sw.	25	11.2	.....	.....	10	.....	.....	.....	.....	overcast.....	John Hartnup.
Bolton, Sharples	29.50	749.3	30.04	763.0	42.4	5.8	91	ssw.	12	5.4	.....	.....	10	.....	.....	.....	.....	raining.....	Thomas Mackereth.[A.S.
Bradford, Yorkshire	29.62	752.3	30.02	762.5	42.7	5.9	79	sw.	.....	.....	1	.....	10	.....	.....	0.03	0.8	raining	J.McLandsborough, F. R
Bridgetown, Barbadoes	29.96	761.0	29.99	761.7	82.0	27.8	63	ne.	.....	.....	2	.....	2	.....	.....	.....	.....	d. clouds	Pvt. J. Surgenor, A. H.C.
Cardington	.....	.....	30.18	766.6	47.0	8.3	56	w.	.....	.....	1.0	.....	7	.....	.....	blank	blank	d. clouds	John McLaren.
Chatham, School M. E.	30.09	764.3	30.22	767.6	47.5	8.6	47	w.	.....	.....	1	.....	8	.....	.....	blank	blank	gloomy.....	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	30.02	762.5	30.25	768.3	50.2	10.1	64	w.	.....	.....	3	.....	9	.....	.....	.....	.....	overcast.....	The Staff.
Fort Napier, Natal	27.77	705.3	29.99	761.7	70.2	21.2	52	se.	.....	.....	3	.....	3	.....	.....	.....	.....	blue sky.....	Pvt. E. K.Annis, A.H.C.
Free Town, Sierra Leone	29.63	752.0	29.86	758.4	89.0	31.7	66	n.	.....	.....	1	.....	3	.....	.....	.....	.....	d. clouds	Sergt. John Robinson.
Galway, Queen's College	.....	.....	30.00	762.0	.....	.....	.....	sw.	.....	.....	2	.....	10	.....	.....	.....	.....	raining.....	J. O'Donaghue.
Gibraltar, Mediterranean	29.97	761.2	30.02	762.5	63.5	17.5	81	e.	.....	.....	4	.....	7	.....	.....	.....	.....	gloomy.....	Opl. O. Baldwin.
Glasgow, Observatory	29.66	753.4	29.86	758.4	49.8	9.9	82	wsw.	.....	.....	3	.....	8	.....	.....	.....	.....	d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	30.03	762.7	30.21	767.3	48.2	9.0	74	wsw.	.....	.....	1	.....	6	.....	.....	blank	blank	d. clouds	The Staff.
Guernsey	29.99	761.7	30.29	769.4	50.0	10.0	93	nnw.	.....	.....	2	.....	2	.....	.....	.....	.....	showery.....	A. Collenette, F. M. S.
Kew, Observatory	30.18	766.6	30.21	767.3	46.2	7.9	57.	sw.	11	4.9	.....	.....	8	.....	.....	.....	.....	misty.....	The Staff.
Leicester, Museum	29.86	758.4	30.12	765.0	46.2	7.9	60	sw.	.....	.....	1	.....	10	.....	.....	blank	blank	overcast.....	J. C. Smith.
Malta, Mediterranean	29.80	756.9	29.87	758.7	67.4	19.7	68	se.	.....	.....	3	.....	6	.....	.....	.....	.....	d. clouds	I. H. Whysall.
Nassau, Bahamas	30.28	769.1	30.33	770.4	70.2	21.2	69	ne.	.....	.....	3	.....	4	.....	.....	.....	.....	d. clouds....	C. S. Duncombe.
Oscott, St. Mary's College	29.59	751.6	30.13	765.3	46.4	8.0	69	ssw.	.....	.....	3	.....	10	.....	.....	.....	.....	overcast.....	John Mac Email.
Oxford, Radcliffe Obs'y	29.96	761.0	30.18	766.6	46.0	7.8	58	wsw.	.....	.....	3	.....	8	.....	.....	.....	.....	d clouds	The Staff.
Plymouth	30.16	766.1	30.24	768.1	50.4	10.2	71	sw.	.....	.....	2	.....	10	.....	.....	.....	.....	overcast.....	John Merrifield.
Sandwick Manse, Orkneys	.....	.....	29.71	754.6	45.5	7.5	80	wsw.	22	9.8	.....	.....	5	.....	.....	.....	.....	d. clouds....	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	30.06	763.5	30.13	765.3	53.4	11.9	51	n.	.....	.....	2	.....	0	.....	.....	.....	.....	blue sky.....	W. H. Lyne.
Sheffield	29.78	756.4	30.06	763.5	47.5	8.6	74	sw.	.....	.....	2	.....	10	.....	.....	0.04	1.0	overcast.....	W. F. Cooper.
Silloth Rectory	29.89	759.2	29.92	760.0	44.6	7.0	95	sw.	.....	.....	5	.....	10	.....	.....	0.180	4.6	drizzling	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	30.04	763.0	41.1	5.1	99	sw.	11	4.9	.....	.....	10	.....	.....	.....	.....	raining.....	R. S. J. Perry.
Stratfield Turgiss	30.02	762.5	30.24	768.1	47.7	8.7	59	sw.	.....	.....	3	.....	7	.....	.....	.....	.....	d. clouds.....	Rev.C.H.Griffiths, F.M.S.
Truro, Royal Institution	30.11	764.8	30.16	766.1	54	12.2	79	sw.	.....	.....	6	.....	10	.....	.....	.....	.....	gloomy.....	W. Newcombe.
Valencia, Observatory	30.04	763.0	30.07	763.8	51.6	10.9	96	sw.	18	8.0	.....	.....	10	.....	.....	.....	.....	drizzling...	The Met'g'l Office.
Canadian.																			
Bathurst, N. B	.....	.....	.....	.....	14.0	—10.0	.....	calm	0	0	.....	2 cs	0	.....	.....	0	0	fair.....	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.05	763.3	30.10	764.5	16	— 8.9	90	nw.	5	2.2	.....	5 cs	4 s	.....	.....	0	0	fair.....	H. J. Cundall, C. E.
Chatham, N. B*	30.12	765.0	30.19	766.8	3	—16.1	100	calm	0	0	.....	0	0	.....	.....	0	0	clear.....	G. A. Blair.
Cornwall, Ontario	30.05	763.3	30.20	768.6	16.5	— 8.6	93	e.	.....	.....	1	0	0	.....	.....	0	0	clear.....	James Smith, M. A.
Dalhousie, N. B	29.99	761.7	30.17	766.3	5.0	—15.0	.....	w.	.....	.....	1	.....	1c n	.....	.....	0	0	cloudy	H. A. Johnson.
Father Point, Quebec*	30.16	766.1	30.18	766.6	4	—15.6	87	s.	7	3.1	.....	2 cs	0	.....	.....	0	0	clear.....	J. McWilliams.
Fort Garry, Manitoba*	29.56	750.8	30.51	774.9	— 6	—21.1	100	nw.	13	8.0	.....	0	0	.....	.....	0	0	clear.....	James Stewart.
Fredericton, N. B	30.14	765.5	30.22	767.6	13.1	—10.5	89	nw.	4	1.8	.....	0	0	.....	.....	0	0	clear.....	Prof. Harrison.
Granton, Ontario	29.19	741.4	30.38	771.6	19.4	— 7.0	94	s.	.....	.....	1	3 c	0	w.	.....	0	0	fair.....	James Grant.
Halifax, N. S*	30.01	762.2	30.15	765.8	14	—10.0	96	w.	5	2.2	.....	5 cs	0	.....	.....	0.170	4.3	fair.....	A. Allison.
Hamilton, Ontario	29.99	761.7	30.41	772.4	25.5	— 3.6	81	w.	.....	.....	1	4 c	0	.....	.....	0	0	fair.....	Geo. Dickson, B. A.
Kingston, Ontario*	29.98	761.5	30.34	770.6	23	— 5.0	80	w.	6	2.7	.....	5 c	0	calm	.....	0.01	0.3	fair.....	A. P. Knight, M. A.
Little Glace Bay, N. S	30.01	762.2	30.00	763.5	21.0	— 6.1	87	nw.	.....	.....	2	.....	10 n	.....	.....	0.10	2.5	light snow...	C. H. Rigby.
Montreal, Quebec*	30.03	762.7	30.25	768.3	17	— 8.3	91	w.	16	7.2	.....	0	0	.....	.....	inap.	inap.	clear.....	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.47	748.5	30.23	767.8	12	—11.1	91	s.	12	5.4	.....	2 k	2 ks	nw.	nw.	0	0	fair.....	Rev. R. Mosley.
Peterboro, Ontario	29.54	750.3	30.35	770.9	22.4	— 5.3	86	w.	.....	.....	1	0	3 ks	.....	.....	0	0	fair.....	J. Dixon, B. A.
Port Dover, Ontario	29.66	753.4	30.40	772.1	20	— 3.3	100	s.	7	3.1	.....	10 k	0	s.	.....	inap.	inap.	cloudy.....	H. Morgan.
Port Stanley, Ontario	29.69	754.1	30.38	771.6	25	— 3.9	88	w.	10	4.5	.....	2 ck	0	nw.	.....	inap.	inap.	clear.....	M. Payne.
Quebec, Quebec*	29.91	759.7	30.27	768.8	6	—14.4	76	w.	.....	.....	1	0	2 s	.....	n.	0	0	clear.....	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.76	755.9	30.30	769.6	—14	—25.6	77	calm	0	0	.....	10	0	nw.	.....	inap.	inap.	fair.....	W. H. McIntyre.
Saugeen, Ontario*	29.48	748.8	30.24	768.1	21	— 6.1	91	s.	9	4.0	.....	8 k	0	.....	.....	0.02	0.5	cloudy.....	
St. Andrews, N. B	30.11	764.8	30.16	766.1	18	— 7.8	90	nw.	2	0.9	.....	0	0	.....	.....	0	0	clear.....	
St. John, N. B	30.01	762.2	30.19	766.8	20.0	— 6.7	93	ne.	2	0.9	.....	3 ok	0	.....	.....	0	0	fair.....	G. Murdock, C. E.
St. Pierre, N. F	.....	.....	29.90	761.0	17.6	— 8.0	.....	ne.	.....	.....	4	.....	.....	.....	.....	0	0	.....	N. F. Land, Com't.
Stratford, Ontario	29.94	760.5	30.32	770.1	19.1	— 7.2	92	sw.	9	4.0	.....	2 ck	2 s	.....	.....	0.050	1.3	fair.....	C. I. Macgregor, M. A.
Sydney, C. B*	29.98	761.5	30.04	763.0	20	— 6.7	91	n.	6	2.7	.....	5 cs	5 s	.....	.....	0.14	3.6	cloudy.....	T. C. Hill, C. E.
Toronto, Ontario*	29.96	761.0	30.37	771.4	23	— 5.0	88	w.	8	3.6	.....	5 cs	2 s	w.	w.	0.01	0.3	fair.....	Magnetic Observatory.
Windsor, N. S	30.03	762.7	30.13	765.3	15.0	— 9.4	91	sw.	1	0.4	.....	.....	9 n	.....	.....	0.05	1.3	fair.....	Prof. W. R. Butler.
Woodstock, Ontario	29.22	742.2	30.30	771.1	23.1	— 4.9	97	sw.	14	0.3	.....	4 k	3 s	w.	.....	0.20	5.1	cloudy.....	Prof. Wolverton
Yarmouth, N. S*	30.10	764.5	30.17	766.3	22	— 5.6	76	e.	2	0.9	.....	.....	10 k	.....	w.	0.08	2.0	cloudy.....	Lt. F. E. Wilmot, R. N.
Sub-series.																			
St. Johns, Newfoundland	29.78	756.4	30.05	763.3	22	— 5.6	.....	ne.	2	0.9	.....	.....	10	.....	.....	0.60	15.2	snowing.....	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.23	767.8	30.26	768.6	70.0	21.1	78	e.	6.1	2.7	.....	1 c	0	.....	.....	0	0	light haze...	John Duthie.
Cape Town, O. G. H. Obs'y	29.96	761.0	30.00	762.0	93.5	34.2	30	sse.	15	6.7	.....	0	0	.....	.....	0	0	.....	The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
CHINESE (*Sub-series*).																			
Hankow	30.00	762.0	30.28	769.1	55.7	13.2	71	ese.	.....	.....	2	.....	0	.....	.....	0	0	.....	N. Titoushkin.
Zi-Ka-Wei, near Shanghai.	30.10	764.6	30.13	765.3	45.7	7.6	80	e.	6.0	2.7	.....	.....	0	.....	.....	0	0	clear	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	29.99	761.7	30.04	762.9	42.8	6.0	65	wnw.	13.4	6	.....	.....	7	.....	.....	.....	.....	.....	Oversergent Fischer.
Fanöe	30.02	762.6	30.04	763.1	41.9	5.5	62	wnw.	.....	.....	4	.....	2	.....	.....	.....	.....	.....	Overloerer Lauridsen.
Godthaab, Greenland	29.26	743.3	29.31	744.4	12.9	—10.6	90	n.	.....	.....	2	.....	10	.....	.....	.....	.....	.....	S. Kleinschmidt.
Stykkisholm, Iceland	28.71	729.1	28.75	730.2	30.2	— 1.0	92	sw.	.....	.....	6	.....	10	.....	.....	.....	.....	snowing	A. O. Thorlacius.
Thorshavn	29.42	747.3	29.46	748.2	41.7	5.4	77	sw.	22.4	10	.....	.....	7	.....	.....	.....	.....	.....	Overloerer Bergh.
Testervig	29.88	759.0	29.97	761.3	40.6	4.8	71	wnw.	.....	.....	2	.....	6	.....	.....	.....	.....	.....	Loerer Oesterboi.
FRENCH.																			
Agen, Normal School	29.49	749.0	30.16	766.1	42.4	5.8	73	n.	.....	.....	1	.....	k;kn	.....	nw.	0.012	0.3	.....	M. Labroue, Director.
Alençon, Normal School	29.70	754.5	30.26	768.5	37.4	3	66	n.	.....	.....	3	.....	kn	.....	s.	0.094	2.4	.....	M. Nicot, Director.
Arras, Engineer School	29.92	760.0	30.19	766.8	41.4	5.2	72	n.	.....	.....	4	.....	5 k;n	.....	ne.	0	0	½ covered	M. Klein, Commandant.
Avignon, Normal School	29.74	755.5	29.82	757.5	45.5	7.5	64	n.	.....	.....	4	.....	5	.....	n.	0	0	cloudy	M. Giraud, Director.
Bar-sur-Seine	29.58	751.4	30.15	765.9	44.1	6.7	56	e.	.....	.....	1	.....	8	.....	ne.	0.039	1.0	very cloudy	M. Saillard, Director.
Beauvais, Normal School	29.97	761.2	30.24	768.1	44.4	6.9	49	ne.	.....	.....	2	.....	8	nw.	n.	0.004	0.1	very cloudy	M. Frère Eugène Mari.
Besançon, Normal School	29.10	739.2	30.01	762.3	39.2	4	83	ne.	.....	.....	3	.....	10 n	.....	s.	.....	.....	snowing	M. Gobin, Director.
Bordeaux, Observatory	29.97	761.1	30.23	767.9	44.4	6.9	46	n.	.....	.....	3	.....	8	.....	n.	0.091	2.3	very cloudy	M. Rayet, Director.
Bourges, Normal School	29.61	752.1	30.18	766.5	41.9	5.5	63	nnw.	.....	.....	1	.....	1	.....	nnw.	0.098	2.5	clear	M. Postel, Director.
Brest, Naval Observatory	30.09	764.2	30.33	770.3	54.3	12.4	65	wsw.	.....	.....	1	.....	6	.....	wsw.	0	0	.....	M. de Kermaree, Dir.
Caen, Normal School	30.19	766.8	30.26	768.6	46.4	8	51	nw.	.....	.....	1	.....	2	.....	nw.	0	0	slightly cl'dy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.78	756.5	30.11	764.8	43.7	6.5	82	wnw.	.....	.....	2	.....	2	.....	n.	0.213	5.4	slightly cl'dy.	M. Jadot, Director.
Charleville, Normal School.	29.63	752.7	30.16	766.1	44.2	6.8	62	nnw.	.....	.....	3	.....	8	.....	sse.	0.016	0.4	¾ covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.71	729.3	30.12	765.1	37.4	3.0	63	n.	.....	.....	2	.....	1c	.....	n.	0.083	2.1	covered	M. Alluard, Director.
Cluny, Normal School	29.19	741.5	30.06	763.4	39.9	4.4	55	ne.	.....	.....	4	.....	7	.....	sw.	0	0	.....	M. de Villemontée, Dir.
Commercy, Normal School	29.26	743.1	30.15	765.8	43.7	6.5	49	nne.	.....	.....	2	5 c	.....	nne.	nne.	0.008	0.2	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.17	690.1	29.74	755 3	41.0	5	25	ne.	.....	.....	4	o	3 k	.....	ne.	0	0	.....	M. Jeangirard, Director.
Gréasque, du. Rhone	28.57	725.6	29.71	754.5	44.6	7	42	nw.	.....	.....	4	.....	7	.....	nw.	0	0	.....	M. Kina, Director.
Grenoble, Normal School	29.10	739.2	29.89	759.2	41.2	5.1	53	n.	.....	.....	2	.....	kn	.....	n.	0.059	1.5	.....	M. Ablard, Director.
Guéret, Normal School	28.55	725.1	30.21	767.3	35.6	2	64	n.	.....	.....	2	.....	.....	.....	n.	0.20	5.	.....	M. Rivoire, Director.
Lamballe, Normal School	30.04	763.0	30.32	770.0	52.2	11.2	73	nnw.	.....	.....	1	.....	5	.....	nnw.	0	0	cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.55	750.6	30.13	765.2	45.7	7.6	77	n.	.....	.....	1	.....	2	.....	.....	0.016	0.4	slightly cl'dy	M. Chauvin, Director.
Lorient, Naval Observatory	30.25	768.4	30.35	771.0	54.5	12.5	48	n.	.....	.....	1	.....	8	.....	n.	0.008	0.2	¾ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.93	734.9	30.03	762.7	37.9	3.3	58	n.	.....	.....	3	.....	10 k;n	n.	n.	0.004	0.1	covered	M. André, Director.
Mans, Normal School	29.95	760.8	30.27	768.9	42.4	5.8	49	nne.	.....	.....	1	.....	5	.....	nne.	0.114	2.9	cloudy	M. Piboen, Director.
Marseille, Observatory	29.48	748.9	29.76	755.8	45.7	7.6	46	nw.	.....	.....	6	.....	2	.....	nw.	0	0	.....	M. Stephan, Director.
Montlouis l'Instituteur	24.62	625.3	29.46	748.3	22.5	— 5.3	78	n.	15.0	6.7	.....	.....	10	.....	wnw.	0.551	14.0	.....	M. Cave, for Dr. Fines.
Montpellier, Normal School	29.74	755.4	29.87	758.7	50.0	10	35	w.	.....	.....	0	.....	2	.....	.....	0	0	slightly cl'dy	M. Galzin, Director.
Nancy, Normal School	29.33	745.0	30.14	765.5	41.0	5	44	wnw.	.....	.....	2	o	5 kn	.....	ne.	0	0	cloudy	M. Hasse, Director
Nantes, Observatory	30.17	766.2	30.33	770.4	47.3	8.5	32	nne.	.....	.....	1–3	o	5k;kn	.....	nne.	0.016	0.4	.....	M. Larocque, Director.
Perpignan, Observatory	29.91	759.6	30.02	762.5	43.0	6.1	44	nw.	24.2	10,8	.....	.....	10	.....	nw.	0.024	0.6	.....	Dr. Fines, Director.
Pic-du-Midi, Summit	20.92	531.4	.....	.....	3.2	—16.0	.....	e.	.....	.....	3–4	.....	10	.....	e.	1.154	29.3	snowy	Gen'l de Nansouty, Dir.
Privas, Normal School	29.09	738.8	29.95	760.6	40.3	4.6	70	.....	.....	.....	.....	.....	.....	.....	.....	0	0	.....	M. Talhieu.
Puy de Dôme Obs'y, Summit	24.99	634.8	.....	.....	18.9	— 7.3	100	n.	.....	.....	6	.....	10	.....	.....	0.795	20.2	snowing	M. Alluard, Director.
Rochefort, Naval Obs'y	30.26	768.7	30.30	769.5	49.8	9.9	72	n.	.....	.....	1	.....	8	.....	n.	0	0	¾ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	30.00	762.1	30.22	767.7	47.8	8.8	46	ne.	.....	.....	2	.....	0	.....	.....	0	0	clear	M. Mouillot, Director.
Rodez, Normal School	27.85	707.4	30.08	763.9	35.6	2	56	nw.	.....	.....	2	.....	10	.....	sw.	0.04	1.	covered	M. Serger, Director.
Rouen, Normal School	30.24	768.0	30.28	769.2	49.6	9.8	40	n.	.....	.....	2	.....	5	.....	.....	0.43	11.	cloudy	M. Platrier, Director.
Saint Maur, Observatory	30.05	763.3	30.22	767.5	42.3	5.7	69	n.	.....	.....	2	.....	10	.....	nne.	0.071	1.8	.....	M. Renou, Director.
Toulouse, Observatory	29.45	748.0	30.18	766.5	44.6	7.0	46	nw.	.....	.....	4	.....	5	.....	nnw.	0	0	cloudy	M. Baillaud, Director.
Versailles, Observatory	29.72	755.0	30.22	767.5	40.6	4.8	69	ne.	.....	.....	3	.....	.....	.....	.....	0	0	.....	Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.94	760.4	30.23	767.8	41.4	5.2	66	n.	.....	.....	2	.....	1c	.....	n.	0.012	0.3	.....	M. Marié Davy, Director
GERMAN.																			
Bamberg	29.18	741.2	30.04	762.9	37.6	3.1	84	nw.	.....	.....	3	o	6 k	.....	nw.	0.04	1.	rain & snow	Prof. Dr. Hoh.
Berlin	29.86	758.5	30.04	763.1	42.1	5.6	64	n.	.....	.....	2	.....	8	.....	.....	0.087	2.2	.....	Prof. Dr. Arndt.
Breslau	29.50	749.2	30.03	762.7	36.7	2.6	96	nw.	.....	.....	2	.....	10	.....	.....	0.063	1.6	raining	Royal University Obs'y.
Carlsruhe	29.65	753.0	30.10	764.5	41.0	5.0	66	ne.	.....	.....	2	.....	10	n.	.....	0	0	.....	Albert Senz.
Cassel	29.33	745.0	30.05	763.2	42.4	5.8	57	n.	.....	.....	4	.....	6	nw.	.....	0	0	.....	Dr. H. Möhl.
Frankfort on the Main	29.72	754.9	30.10	764.5	44.6	7.0	75	n.	.....	.....	2	.....	7	.....	.....	0.004	0.1	.....	Physical Society.
Friedrichshafen	28.55	725.2	30.04	763.0	35.8	2.1	82	ne.	.....	.....	8	.....	8	ne.	.....	0	0	.....	Wilhelm, Chief Tel.
Hamburg	30.00	762.0	30.10	764.4	39.2	4.0	95	nw.	.....	.....	3	.....	6	.....	.....	0	0	.....	E. Preller.
Kiel	30.02	762.5	30.04	762.9	42.4	5.8	60	wnw.	.....	.....	2	.....	9	.....	.....	0	0	.....	Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.64	752.9	30.08	764.0	38.3	3.5	75	n.	.....	.....	3	.....	10	n.	.....	0.118	3.0	.....	H. Leppig, Asst.
Magdeburg	29.87	758.8	30.07	763.8	43.9	6.6	56	n.	.....	.....	3	o	7 k	.....	n.	0	0	.....	Dr. Assmann.
Memel	29.98	761.6	30.03	762.8	40.3	4.6	81	nw.	.....	.....	3	.....	10 8	.....	.....	.....	.....	.....	Issermann.
Munich	28.15	715.0	30.01	762.3	32.9	0.5	92	ne.	.....	.....	1	.....	1c	.....	.....	0.425	10.8	.....	Central Station
Neufahrwasser	30.03	762.8	30.05	763.2	41.7	5.4	80	ne.	.....	.....	1	.....	10	.....	.....	0.126	3.2	.....	A. Lothes.
Neustadt, Palatinate	29.54	750.3	30.07	763.7	41.0	5.0	61	n.	.....	.....	4	.....	6	n.	.....	0	0	.....	Dicknether.
Stuttgart	29.06	738.1	29.98	761.5	39.7	4.3	63	n.	.....	.....	1	.....	10	.....	.....	.....	.....	snowy	Prof. Dr. Schoder.
Wustrow	30.04	763.0	30.06	763.6	42.6	5.9	74	w.	.....	.....	4	.....	10 8	.....	.....	0	0	.....	Profs. Brandes & Reimer.
GREEK.																			
Athens	29.74	755.4	30.13	765.2	68.2	20.1	.....	s.	.....	.....	1.0	.....	7	.....	.....	0	0	misty	Schmidt & Wourlisch.
INDIAN.																			
Bellary	28.28	718.3	.....	.....	100.2	37.9	14	se.	7.7	3.4	.....	4 ck	3	wnw.	.....	0	0	d. clouds	
Kurrachee	29.88	758.9	29.93	760.2	81.3	27.4	67	wsw.	24	10.7	.....	.....	2	.....	.....	0	0	misty	
Deesa	29.36	745.7	29.82	757.3	98.5	36.9	31	w.	11.3	5.0	.....	.....	0	.....	.....	0	0	.....	
Bombay	29.77	756.2	29.81	757.2	84.9	29.4	66	wnw.	8	3.6	.....	.....	5	e.	.....	0.02	0.5	d. clouds	
Poona, Yarrowda	27.94	709.6	29.73	755.1	96.6	35.9	13	n.	11	4.9	.....	.....	9	w.	w.	0.01	0.3	gloomy	
Belgaum	27.30	693.4	29.79	756.6	85.5	29.7	58	w.	10	4.5	.....	.....	3	e.	.....	0	0	d. clouds	
Lahore	29.06	738.1	29.79	756.7	87.0	30.6	25	w.	2.4	1.1	.....	.....	0	.....	.....	0	0	blue sky	
Roorkee	28.83	732.2	29.70	754.5	90.2	32.3	19	nw.	2.6	1.2	.....	.....	3	.....	.....	0	0	.....	
Agra	29.18	741.2	29.73	755.0	98.6	37.0	14	w.	5.9	2.6	.....	.....	0	.....	.....	0	0	.....	
Nagpur	28.71	729.2	29.71	754.7	98.7	37.1	14	n.	3.8	1.7	.....	.....	3	w.	.....	0	0	d. clouds	
Jubbulpore	28.44	722.4	29.76	755.8	94.9	34.9	15	n.	3.0	1.3	.....	.....	0	.....	.....	0	0	blue sky	
Lucknow	29.33	745.0	29.69	754.2	98.0	36.7	18	wnw.	9.4	4.2	.....	.....	2	.....	.....	0	0	misty	
Allahabad	29.37	746.0	29.67	753.6	96.5	35.8	23	w.	5.0	2.2	.....	.....	0	.....	.....	0	0	misty	
Patna	29.49	749.1	29.68	753.7	86.2	30.1	40	ene.	4.8	2.2	.....	.....	8	ene.	ene.	0	0	d. clouds	
Hazaribagh	27.69	703.4	29.63	752.7	93.8	34.3	32	w.	12.0	5.4	.....	.....	0	.....	.....	0	0	misty	
Cuttack	29.59	751.6	29.67	753.6	93.1	33.9	42	ssw.	1.3	0.6	.....	.....	0	.....	.....	0	0	blue sky	
Calcutta, Alipore	29.64	752.9	29.66	753.5	87.4	30.8	67	sse.	11.0	4.9	.....	.....	0	.....	.....	0	0	blue sky	
Dhubri	29.62	752.2	29.74	755.3	80.4	26.9	67	calm	3.2	1.4	.....	.....	9	.....	.....	0	0	gloomy	
Chittagong	29.72	754.8	29.81	757.1	80.7	27.1	83	sw.	7.2	3.2	.....	.....	8	.....	.....	0	0	d. clouds	
Sibsagar	29.38	746.3	29.72	754.8	83.2	28.4	67	se.	2.8	1.2	.....	.....	4	.....	w.	0	0	blue sky	
Jeypore	28.36	720.3	29.76	756.0	93.0	33.9	22	nw.	8.0	3.6	.....	.....	0	.....	.....	0	0	blue sky	
Zanzibar, Africa	29.76	755.9	.....	.....	87.7	30.9	64	ne.	6.3	2.8	.....	.....	5	ene.	ene.	0	0	d. clouds	
Trichinopoly	29.52	749.8	.....	.....	97.0	36.1	26	se.	1	0.4	.....	.....	0	.....	.....	0	0	blue sky	
ITALIAN.																			
Udine	29.37	746.1	29.78	756.5	51.8	11.0	95	sw.	3.5	1.7	.....	.....	10	.....	.....	0.795	20.2	.....	Prof. Giovanni Clodig.
Milan	29.26	743.2	29.78	756.3	52.3	11.3	53	ne.	1.8	0.8	.....	.....	8	se.	.....	0.012	0.3	.....	Prof. Schiaparelli.
Padua	29.66	753.4	29.77	756.2	50.9	10.5	71	nne.	4.3	1.9	.....	.....	10	ne.	.....	0.146	3.7	.....	Prof. Dott. Lorenzoni.
Moncalieri	28.91	734.3	29.82	757.5	40.1	4.5	82	n.	0.7	0.3	.....	.....	10	e.	.....	0.130	3.3	.....	Prof. P. F. Denza.
Genoa	29.56	750.9	29.76	755.8	48.2	9.0	61	n.	3.8	1.7	.....	.....	10	n.	.....	0.008	0.2	.....	Prof. G. M. Garibaldi.
Mondovi	27.86	707.7	29.78	756.4	37.6	3.1	67	w.	.....	.....	4	.....	8	.....	.....	0	0	.....	Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
ITALIAN.—Continued.																			
Pesaro	29.70	754.3	29.74	755.5	48.4	9.1	91	n.	17.4	7.8	.....	.....	10	s.	.....	0.295	7.5	.....	Prof. Luigi Guidi.
Florence	29.52	749.8	29.78	756.3	44.1	6.7	79	w.	.....	.....	2	.....	10	sw.	.....	0.563	14.3	.....	Prof. Costantino Pitter.
Leghorn	29.65	753.1	29.74	755.3	50.0	10.0	53	w.	12.5	5.6	.....	.....	10	n.	.....	0.173	4.4	.....	Prof. P. Monte.
Rome	29.53	750.1	29.71	754.5	62.1	16.7	61	sse.	4.9	2.2	.....	.....	10	.....	.....	0.154	3.9	.....	Prof. P. S. Ferrari.
Lecce	29.72	754.9	29.97	761.3	64.4	18.0	66	se.	36.0	16.1	.....	.....	10	se.	.....	0	0	.....	Prof. C. de Giorgi.
Cosenza	28.98	736.1	29.87	758.6	70.9	21.6	77	sse.	8.7	3.9	.....	.....	9	se.	.....	0	0	.....	Prof. D. Conti.
Cagliari	29.48	748.7	29.67	753.6	62.6	17.0	87	nw.	.....	.....	6	.....	10	.....	.....	0.016	0.4	.....	Prof. A. Pacinotti.
Palermo	29.48	748.7	29.73	755.1	77.7	25.4	70	sw.	24.8	11.1	.....	.....	10	.....	.....	0	0	.....	Prof. G. Ciaccialatore.
Syracuse	29.83	757.7	29.88	758.9	66.0	18.9	74	sse.	15.4	6.9	.....	.....	10	s.	.....	0	0	.....	Prof. Vincenzo Guiliano.
Sub-series.																			
Naples, S. R	29.24	742.6	29.75	755.6	65.8	18.8	49	se.	.....	.....	.....	.....	10	sw.	.....	0.917	23.3	.....	Prof. T. Brioschi.
Stelvio	21.82	554.2	.....	.....	19.2	— 7.1	94	nw.	.....	.....	4	.....	10	.....	.....	0.748	19.0	covered	Prof. P. F. Denza.
Valdobbia	21.75	552.5	.....	.....	14.5	— 9.7	73	n.	.....	.....	6	.....	10	.....	.....	0.591	15.0	covered	Prof. P. F. Denza.
JAPANESE.																			
Aomori	29.67	753.6	29.70	754.4	30.0	— 1.1	86	wsw.	14.8	6.6	.....	.....	10 n	.....	.....	0.205	5.2	snowing	K. Ogawa.
Hakodate	29.61	752.1	29.63	752.6	31.7	— 0.2	79	wsw.	18.0	8.0	.....	.....	3	.....	w.	0.010	0.3	clear	
Hiroshima, I. M. Obs'y	29.91	759.7	29.92	759.9	33.9	1.1	92	ne.	2.9	1.3	.....	1cs;ck	0	.....	.....	0.118	3.0	clear	K. Sasaki.
Kanazawa	29.74	755.4	29.85	758.2	35.7	2.1	76	se.	5.2	2.3	.....	ck	10 s	.....	.....	0.070	1.8	.....	S. Endo.
Kioto	29.62	752.3	29.81	757.2	35.5	1.9	95	s.	6.1	2.7	.....	.....	10 n	.....	.....	0.040	1.0	light rain	M. Tojima.
Kochi	29.87	758.7	29.90	759.4	41.1	5.1	58	wnw.	17.0	7.6	.....	0	1 n	.....	.....	0.005	0.1	fair	
Nagasaki, I. M. Obs'y	29.84	757.9	30.05	763.3	39.7	4.3	60	n.	13.8	6.2	.....	.....	9 n	.....	.....	0.170	4.3	snowing	S. Takehayashi.
Niigata	29.79	756.6	29.82	757.4	35.0	1.7	86	se.	2.7	1.2	.....	1 ck	0	.....	.....	0.020	0.5	clear	
Nobiru	29.77	756.1	29.79	756.6	33.9	1.1	81	ene.	4.7	2.1	.....	0	9 s	.....	.....	0	0	cloudy	H. Midzushina.
Supporo	.....	.....	.....	.....	32.0	0.0	96	sw.	18.0	8.0	.....	.....	10	.....	.....	0.695	17.6	snowing	
Tokei Obs'y, Yeddo	29.72	754.9	29.79	756.6	39.9	4.4	73	n.	4.0	1.8	.....	0	6 ks;s	.....	.....	0.140	3.6	fair	The Staff.
Wakayama	29.79	756.6	29.85	758.2	40.8	4.9	69	wnw.	8.9	4.0	.....	ck	5 ks	.....	wsw.	0.050	1.3	fair	Y. Kuwamuea.
MAURITIUS.																			
Mauritius Observatory	29.71	754.6	29.90	759.4	78.0	25.6	78	ene.	11.0	4.9	.....	2ck;cs	7 ks;n	.....	ene.	1.32	33.5	cloudy	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.87	606.2	30.09	764.2	58.1	14.5	65	e.	.....	.....	.....	1	1	e.	e.	0	0	clear	Vicente Fernandez.
Leon	24.55	623.5	30.36	771.1	54.4	12.5	80	sw.	.....	.....	1	1	0	.....	.....	0	0	foggy	Prof. M. Leal.
Mazatlan	29.83	757.6	30.09	764.3	65.0	18.3	89	nw.	.....	.....	.....	10 cs	0	sw.	.....	0	0	covered	F. Quijano, C. E.
Mexico, Central Obs'y	23.28	591.0	30.41	772.5	50.9	10.5	82	calm	0	0	.....	.....	10	.....	.....	0.020	0.5	covered	M. Tena, M. D.
Morelia	24.26	616.3	30.40	772.2	57.7	14.3	69	se.	.....	.....	2	1	2	e.	e.	0	0	½ clouded	The Staff.
Pabellon, Aguascallentes	24.12	612.5	30.19	766.8	54.3	12.4	76	sw.	.....	.....	2	10	0	sw.	.....	0	0	cloudy	M. Y. de Leon, M. E.
Puebla, Catholic Institute	23.45	595.5	30.27	768.8	48.2	9.0	72	calm	0	0	.....	0	0	.....	.....	0	0	clear	Prof. P. Spina.
San Luis Potosi	24.40	619.7	30.45	773.4	53.7	12.1	72	e.	.....	.....	1	.....	10	.....	e.	0	0	covered	G. Barroeta, M. D.
Vera Cruz	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Zacatecas	22.67	575.7	30.42	772.6	46.0	7.5	94	ene.	11.4	5.1	.....	0	1	.....	ne.	0	0	clear	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.21	767.3	30.21	767.3	45.0	7.2	.....	nw.	.....	.....	3	.....	.....	.....	.....	0.091	2.3	.....	
Groningen	30.08	764.0	30.14	765.4	41.9	5.5	.....	nw.	.....	.....	1	.....	.....	.....	.....	0.059	1.5	.....	
Helder	30.14	765.6	30.14	765.6	40.8	4.9	.....	wsw.	.....	.....	3	.....	.....	.....	.....	0	0	.....	
Hellevoetsluis	30.17	766.4	30.17	766.4	45.3	7.4	65	wnw.	.....	.....	2	.....	.....	.....	.....	0.059	1.5	.....	
Utrecht	30.13	765.3	30.18	766.5	43.7	6.5	74	n.	.....	.....	1	.....	8	.....	.....	0	0	very cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.74	755.5	29.81	757.1	37.0	2.8	75	sse.	27	12	.....	.....	10	.....	.....	0.433	11.0	snowing	
Brono	29.62	752.3	29.66	753.3	37.0	2.8	52	sw.	9	4	.....	.....	3	.....	.....	0	0	.....	
Ohristiania	29.69	754.2	29.84	758.0	41 0	5.0	54	sw.	4	2	.....	.....	9	.....	.....	0	0	.....	
Gjæsvær	29.63	752.6	29.65	753.2	29.5	— 1.4	.....	calm	.....	.....	0	.....	10	.....	.....	.....	.....	.....	
Lodingen	29.50	750.9	29.61	752.1	36.3	2.4	82	w.	.....	.....	2	.....	8	.....	.....	0.012	0.3	.....	
PORTUGUESE.																			
Angra, Azores	.....	.....	.....	.....	56.7	13.7	64	se.	8.7	3.9	.....	.....	4	.....	.....	0	0	.....	Dr. J. A. Sampaio.
Campo Major	29.20	741.6	30.21	767.4	54.0	12.2	31	nne.	9.8	4.4	.....	.....	3	nnw.	.....	0	0	.....	Dr. A. M. R. dos Santos.
Funchal, Maderia	30.14	765.5	30.23	767.8	60.8	16.0	55	nne.	1.8	0.8	.....	.....	3	.....	.....	0.835	21.2	.....	Capt. D. A. de Cunha.
Lisbon, Observatory	29.93	760.1	30.29	769.4	52.3	11.3	39	nne	28.0	12.5	.....	.....	1	.....	.....	0	0	.....	The Staff.
Ponta Delgada, Azores	30.58	776.8	30.65	778.6	60.1	15.6	55	ne.	8.7	3.9	.....	.....	4	.....	.....	0	0	.....	
Saint Paul de Loando	29.67	753.6	29.87	758.7	81.0	27.2	86	w.	1.3	0.6	.....	.....	6	sse.	.....	0	0	.....	
Serra da Estrella	25.39	645.0	30.35	771.0	29.7	— 1.3	76	ene.	15.4	6.9	.....	.....	3	.....	.....	0	0	.....	
RUSSIAN.																			
Akmolinski	29.45	747.9	30.64	778.2	10.9	—11.7	82	sw.	7	3	.....	0	0	.....	.....	0	0	.....	Major K. Lasarew.
Archangel	29.67	753.7	29.69	754.2	39.4	4.1	79	sw.	9	4	.....	.....	10	.....	.....	0	0	light clouds	Capt. Sseliwerstow.
Astrakhan	30.64	778.2	30.56	776.1	35.8	2.1	69	ene.	13	6	.....	.....	10 s	.....	.....	0	0	heavy cl'ds	Capt. Wisganow.
Barnaul	30.11	764.7	30.65	778.5	20.8	— 6.2	64	wsw.	18	8	.....	.....	10	.....	.....	0	0	.....	Meteorological Obs'y.
Dorpat	29.71	754.5	29.96	760.9	39.2	4.0	84	nnw.	2	1	.....	.....	9 s	.....	.....	0.075	1.9	.....	Observatory.
Ekaterinburg	29.36	745.8	30.37	771.3	36.0	2.2	61	w.	13	6	.....	.....	10	.....	.....	0	0	solar halo	Meteorological Obs'y.
Kasan	30.15	765 7	30.43	772.9	36.3	2.4	63	ssw.	9	4	.....	.....	2	.....	.....	0	0	.....	Observatory.
Kertch	30.23	767.8	30.25	768.3	45.5	7.5	59	ene.	13	6	.....	0	0	.....	.....	0	0	.....	Lagorio & Sastyrez.
Kieff	29.55	750.6	30.20	767.0	49.1	9.5	47	se.	16	7	.....	0	0	.....	.....	0	0	.....	Observatory.
Lugan	30.24	768.2	30.45	773.5	44.8	7.1	34	ese.	18	8	.....	.....	0	.....	.....	0	0	.....	Meteorological Obs'y
Moscow	29.72	754.8	30.21	767.2	46.4	8.0	52	s.	4	2	.....	0	0	.....	.....	0	0	.....	Meteorological Obs'y.
Nikolaiev	30.28	769 1	30.35	770.9	54.1	12.3	51	se.	9	4	.....	0	0	.....	.....	0	0	.....	Capt. Kurdakow.
Nikolaievsk, on the Amoor	29.91	759 7	30.00	761.9	32.4	0.2	85	e.	18	8	.....	.....	10	.....	.....	0.016	0.4	.....	Lieut. Iwanow.
Pekin, China	29.87	758.6	30.01	762.2	44.4	6.9	41	se.	11	5	.....	0	3 k	.....	.....	0	0	.....	Physical Observatory
St. Petersburg	29.88	758.9	29.89	759.3	35.6	2.0	93	w.	2	1	.....	.....	10 n	.....	.....	0.035	0.9	.....	Central Physical Obs
Tashkend, Laboratory	28.84	732.4	30.47	774.0	41.4	5.2	87	calm	0	0	.....	.....	10	.....	.....	0.051	1.3	.....	Teich, A. M.
Tiflis	28.92	734.5	30.38	771.7	45.0	7.2	58	s.	4	2	.....	0	4 ks	.....	.....	0.043	1.1	.....	Physical Observatory
Vladivostok	29.66	753.3	29.72	755.0	26.8	— 2.9	100	nw.	4	2	.....	.....	9 n	.....	.....	0.008	0.2	.....	
Warsaw	29.56	750.8	29.99	761.7	45.0	7.2	82	calm	0	0	.....	.....	10 ks	.....	.....	.....	.....	.....	Astronomical Obs'y
Wilna	29.58	751.3	30.00	762.0	51.6	10.9	71	w.	4	2	.....	.....	8	.....	.....	0.283	7.2	.....	Berg, Assistant.
Yeniseisk	30.05	763.2	30.36	771.1	19.4	— 7.0	81	w.	7	3	.....	.....	10	.....	.....	0.012	0.3	snowing	M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	29.82	757.4	29.93	760.1	52.7	11.5	34	n.	5.1	2.3	.....	.....	1 k	.....	.....	0	0	clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.24	768.1	30.30	769.6	49.3	9.6	62	n.	3.1	1.4	.....	2	4	e.	.....	0.130	3.3	cloudy	Prof. Manuel de Naveran;
Burgos, Met. Obs'y	27.21	691.2	30.32	770.2	36.9	2.7	79	n.	12.5	5.6	.....	.....	10	.....	.....	0	0	covered	Domingo Martin.
Madrid, Royal Obs'y	27.91	708.8	30.21	767.4	45.5	7.5	37	ne.	21.7	9.7	.....	0	6	.....	.....	0	0	cloudy	The Staff.
Murcia, Met. Obs'y	29.91	759.8	30.06	763.6	55.9	13.3	49	nw.	10.5	4.7	.....	1	2	se.	.....	0	0	clouds	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.42	747.3	30.34	770.6	50.4	10.2	42	n.	21.0	9.4	.....	.....	7	.....	.....	0	0	cloudy	R. Gil Valkanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I	30.19	766.7	30.25	768.3	74.3	23.5	73	nne.	8.7	3.9	.....	0	9 k;s	.....	ene	0	0	fair	Benito Vines, S. J.
Manilla, Philippine Islands	29.93	760.1	29.98	761.6	76.2	24.6	76	se.	4.4	2.0	.....	.....	9 kn	.....	ne.	0.087	2.2	cloudy	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.99	761.8	30.09	764.4	55.9	13.3	29	nne.	16.8	7.5	.....	0	5	.....	n.	0	0	.....	Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	30.04	763.0	30.13	765.3	72.3	22.4	88	calm	0	0	.....	6 k	6 ku	e.	e.	0	0	cloudy	Manuel Maeu.
Tuguegarao, Philippine Id's	29.92	760.0	30.06	763.5	70.0	21.1	79	nnw.	13.0	5.8	.....	0	8 ks	.....	nw.	0	0	covered	José L. Yrastorza.
SWEDISH																			
Haparanda	29.69	754.0	29.72	755.0	27.7	— 2.4	67	nw.	.....	.....	2	.....	5	.....	.....	0	0	.....	
Umea	29.71	754.5	29.76	755.8	45.0	7.2	55	nw.	.....	.....	2	.....	1	.....	.....	0	0	.....	
Hernosand	29.73	755.1	29.78	756.4	43.0	6.1	40	wnw.	.....	.....	2	.....	2	.....	.....	0	0	.....	
Stockholm	29.71	754.6	29.89	759.1	42.4	5.8	50	wsw.	.....	.....	2	.....	5	.....	.....	0	0	.....	
Wisby	29.85	758.3	29.91	759.8	40.3	4.6	74	w.	.....	.....	2	.....	5	.....	.....	0	0	.....	
Sub-series.																			
Upsala	29.76	755.9	29.85	758.1	43.2	6.2	55	sw.	6.3	2.8	.....	.....	3	.....	w.	0	0	.....	S. G. Fineman.
SWISS.																			
Geneva	28.50	724.0	29.98	761.4	38.7	3.7	52	ne.	.....	.....	9	.....	.....	.....	.....	0	0	cloudy	The Observatory

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
TURKISH.																			
Constantinople	.....	.....	30.20	767.1	50.0	10.0	63	nne.	12	5.5	.....	.....	0	.....	.....	0	0	.....	The Observatory.
Valona	.....	.....	30.07	763.7	73.9	23.3	.....	s.	.....	.....	1	.....	5	.....	.....	0	0	cloudy.....	A. Bertrand.
Sub-sertes.																			
Beirut, Lee Obs'y, Syria	.....	.....	29.98	761.5	68.0	20.0	68	sw.	.....	.....	1	3 c	0	sw	.....	0	0	.....	Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	30.28	769.1	30.37	771.4	31	— 0.6	68	nw.	11	4.9	.....	.....	10 s	.....	nw.	0.02	0.5	cloudy	J. O. Barnes.
Alpena, Michigan	29.39	746.5	30.09	764.3	24	— 4.4	88	s.	10	4.5	.....	.....	10 s	.....	.....	0.12	3.0	cloudy	Jas. J. Fitzgerald.
Atlanta, Georgia	29.32	744.7	30.53	775.4	35.0	1.7	63	nw.	7	3.1	.....	3 cs	2 s	calm	calm	0	0	fair.....	H. Hall.
Atlantic City, New Jersey	30.38	771.6	30.39	771.9	29.8	— 1.2	70	nw.	10	4.5	.....	0	0	.....	.....	inap.	inap.	clear.....	Jas. M. Watson.
Augusta, Georgia	30.38	771.6	30.58	776.7	39.8	4.3	57	ne.	5	2.2	.....	0	0	.....	.....	inap.	inap.	clear.....	John Healy.
Baltimore, Maryland	30.45	773.4	30.50	774 7	32	0.0	68	nw.	9	4.0	.....	0	2 ks	.....	nw.	inap.	inap.	clear.....	Robert Seyboth.
Barnegat, New Jersey	30.37	771.4	30.39	771.9	31.0	— 0.6	74	nw.	18	8.0	.....	0	c	.....	.....	0	0	clear.....	Chas. F. Merritt.
Bismarck, Dakota	28.58	725.9	30.50	774.7	16	— 8.9	83	nw.	20	8.9	.....	5 k	0	nw.	.....	0	0	fair.....	Cyrus Cramer.
Boise City, Idaho	27.69	703.3	30.61	777.5	30.2	— 1.0	88	s.	1	0.4	.....	0	0	.....	.....	0	0	clear.....	B. E. Light.
Boston, Massachusetts	30.10	764.5	30.26	768.6	26.0	— 3.3	76	nw.	13	5.8	.....	0	0	.....	.....	0.09	2.3	clear.....	O. B. Cole.
Brownsville, Texas	30.32	770.1	30.37	771.4	57	13.9	93	nw.	4	1.8	.....	.....	10 s	.....	.....	0.04	1.0	cloudy	J. C. Galloway.
Buffalo, New York	29.61	752.1	30.40	772.1	29.6	— 1.3	77	sw.	22	9.8	.....	.....	10 ks	.....	sw.	0.03	0.8	cloudy	Wm. Finn.
Burlington, Vermont	29.97	761.2	30.28	769.1	27.0	— 2.8	59	w.	7	3.1	.....	0	0	.....	.....	0.01	0.3	clear.	G. O. Scheffer.
Cairo, Illinois	30.11	764.8	30.53	775.4	40.8	4.9	70	s.	1	0.4	.....	0	0	.....	.....	0	0	clear.....	W. H. Ray.
Campo, California	27.58	700.5	30.19	766.8	33.2	0.7	71	e.	3	1.3	.....	0	0	.....	.....	0	0	clear.....	W. H. Clendenon.
Camp Thomas, Arizona	27.44	697.0	30.22	767.6	48.5	9.2	82	calm	.....	.....	0	0	0	.....	.....	0	0	clear.....	J. T. Fitzgerald.
Cape Henry, Virginia	30.49	774.4	30.51	774.9	36	2.2	61	nw.	36	16.1	.....	0	4 k	.....	nw.	0	0	fair	J. E. Lanonette.
Cape May, New Jersey	30.41	772.4	30.44	773.2	35	1.7	53	nw.	29	13.0	.....	0	3 ks	.....	nw.	0	0	clear.....	W. Bolton.
Castroville, Texas	29.62	752.3	30.45	773.4	53	11.7	80	w.	2	0.9	.....	.....	10 s	.....	.....	0.03	0.8	cloudy	T. Jones.
Cedar Keys, Florida	30.41	772.4	30.43	772.9	48	8.9	50	n.	6	2.7	.....	4 ck	0	.....	.....	0	0	fair.....	F. W. Mixer.
Champaign, Illinois	29.54	750.3	30.40	772.1	32.1	0.1	78.	s.	14	6.3	.....	0	hz.	.....	.....	0	0	clear.....	L. A. Welsh.
Charleston, S. Carolina	30.42	772.7	30.48	774.2	41	5.0	48	ne.	16	7.2	.....	0	0	.....	.....	0	0	clear.....	J. H. Smith.
Charlotte, N. Carolina	29 61	752.1	30.49	774.4	33.0	0.6	62	ne.	6	2.7	.....	0	sk.	.....	.....	0	0	clear.....	D. O. Donoghue.
Chattanooga, Tennessee	29.74	755.4	30.59	777.0	36.5	2.5	65	n.	2	0.9	.....	0	sk.	.....	.....	0	0	clear.....	B. L. Goulding.
Cheyenne, Wyoming	24.30	617.2	30.48	774.2	32.3	0.2	32	nw.	15	6.7	.....	0	0	.....	.....	0	0	clear.....	E. McGovern.
Chicago, Illinois	29.51	749.5	30.25	768.3	35.9	2.2	69	sw.	13	5.8	.....	7 c	0	sw.	.....	inap.	inap.	fair.....	J. Mitchell.
Chincoteague, Virginia	30.45	773.4	30.47	773.9	32	0.0	68	nw.	23	10.3	.....	2 k	0	nw.	.....	0	0	clear.....	F. C. Pratz.
Cincinnati, Ohio	29.85	758.2	30.54	775.7	34.2	1.2	68	s.	3	1.3	.....	0	0	.....	.....	inap.	inap.	clear.....	R. B. Watkins.
Cleveland, Ohio	29.66	753.4	30.44	773.2	30	— 1.1	77	s.	10	4.5	.....	4 c	0	sw.	.....	0.01	0.3	fair	J. B. Newlin.
Coleman City, Texas	28.62	726.9	30.47	773.9	49	9.4	80	sw.	2	0.9	.....	.....	10 s	.....	sw.	0.02	0.5	cloudy	L. Dorman.
Columbus, Ohio	29.61	752.1	30.50	774.7	30	— 1.1	68	sw.	5	2.2	.....	0	0	.....	.....	inap.	inap.	clear.....	D. Cuthbertson.
Concho, Texas	28.44	722.4	30.47	772.4	47	8.3	86	se.	4	1.8	.....	.....	10 s	.....	.....	0.11	2.8	cloudy	W. W. McConihe.
Davenport, Iowa	29.51	749.5	30.20	767.1	39	3.9	46	sw.	12	5.4	.....	4 ck	0	.....	w.	0	0	fair.....	R. R. Martin.
Dayton, Washington T'y	28.69	728 7	30.50	774.7	40.2	4.6	85	se.	2	0.9	.....	0	0	.....	.....	0	0	clear.....	H. Clifford.
Deadwood, Dakota	25 63	651.0	30.47	773.9	38	3.3	51	ne.	3	1.3	.....	0	0	.....	.....	0	0	clear.....	G. W. Scott.
Decatur, Texas	.....	.....	.....	.....	52	11.1	61	sw.	10	4.5	.....	.....	10 s	.....	sw.	inap.	inap.	cloudy.....	D. J. Carr.
Delaware Breakwater, Del.	30.41	772.4	30.43	772.9	33	0.6	68	n.	38	17.0	.....	2 k	0	n.	.....	0	0	clear.....	A. Schneider.
Denison, Texas	29.64	752.8	30.47	773.9	53.4	11.9	55	sw.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy.....	J. McGlone.
Denver, Colorado	25.02	635.5	30.46	773.7	34.0	1.1	81	se.	9	4.0	.....	0	0	.....	.....	0	0	clear.....	F. M. Neal.
Des Moines, Iowa	29.23	742.4	30.19	766.8	39	3.9	65	w.	3	1.3	.....	3 cs	0	w.	.....	0	0	clear.....	F. W. Conrad.
Detroit, Michigan	29.62	752.3	30.37	771.4	37.2	2.9	72	sw.	12	5.4	.....	0	0	.....	.....	0.01	0.3	clear.....	C. F. R. Wappenhans.
Dodge City, Kansas	27.62	701.5	30.35	770.9	39.8	4.3	74	sw.	7	3.1	.....	0	0	.....	.....	0	0	clear.....	E. A. Thomas.
Dubuque, Iowa	29.38	746.2	30.13	765 3	37.2	2.9	61	sw.	5	2.2	.....	0	4 s	.....	s.	0	0	fair.....	J. Harvey Smith.
Duluth, Minnesota	29.26	743.2	30.00	762.0	30	— 1.1	77	sw.	9	4.0	.....	0	2 s	.....	sw.	0	0	clear.....	N. B. Conger.
Eagle Pass, Texas	29.65	753.1	30.47	773.9	50.0	10.0	77	calm	0	0	.....	.....	10 s	.....	.....	0.16	4.1	cloudy.....	F. Belford.
Eagle Rock, Idaho	25.70	652.8	30.58	776.7	8	—13.3	80	n.	5	2.2	.....	0	0	.....	.....	0	0	clear.....	J. M. Clifford.
Eastport, Maine	30.12	765 0	30.19	766.8	21.5	— 5.8	71	nw.	6	2.7	.....	0	0	.....	.....	0	0	clear.....	J. H. Melton.
El Paso, Texas	26.52	673.6	30.32	770.1	35	1.7	82	e.	1	0.4	.....	0	0	.....	.....	0	0	clear.....	J. F. Marshall.
Erie, Pennsylvania	29.67	753.6	30.44	773.2	29	— 1.7	88	sw.	14	6.3	.....	.....	10 s	.....	sw.	0.05	1.3	cloudy.....	R. H. Paxton.
Escanaba, Michigan	29.22	742.2	29.93	760 2	30	— 1.1	77	s.	6	2.7	.....	3 c	3 s	w.	s.	inap.	inap.	fair.....	C. Dill.
Florence, Arizona	28.61	726.7	30.18	766.6	59.7	15.4	43	ne.	4	1.8	.....	2 k	0	s.	.....	0	0	clear.....	R. R. Herman.
Fort Apache, Arizona	25.24	641.1	30.26	768.6	33	0.6	74	ne.	5	2.2	.....	0	0	.....	.....	0	0	clear.....	W. O. Barnes.
Fort Assinnaboine, Montana	27.59	700.8	30.60	777.2	21	— 6.1	48	ne.	16	7.2	.....	0	1 s	.....	ne.	0	0	clear.....	B. O. Lenoir.
Fort Bennett, Dakota	28.84	732.5	30.54	775.7	24	— 4.4	76	ne.	6	2.7	.....	.....	10 ks	.....	.....	0	0	cloudy	T. Gibson.
Fort Benton, Montana	27.62	701.5	30.60	777.2	23	— 5.0	73	sw.	4	1.8	.....	0	3 ks	.....	calm	0	0	clear.....	S. Wheaton.
Fort Buford, Dakota	28.51	724.1	30.65	778.5	15	— 9.4	67	n.	13	5.8	.....	.....	10 s	.....	calm	0	0	cloudy	A. H. Bell.
Fort Custer, Montana	27.21	691.1	30.54	775.7	31	— 0.6	71	n.	8	3.6	.....	.....	10 s	.....	calm	0	0	cloudy	V. Verge.
Fort Davis, Texas	25.41	645.4	30.29	769.4	40	4.4	92	calm	0	0	.....	.....	10 s	.....	calm	0	0	cloudy	J. Williams.
Fort Elliott, Texas	27.48	698.0	30.31	769.9	45	7.2	63	sw.	16	7.2	.....	7 k	0	sw.	.....	0	0	fair.....	W. J. Cundall.
Fort Gibson, Indian T'y	29.84	757.9	30.20	772.9	48.0	8.9	56	se.	4	1.8	.....	10 cs	0	s.	.....	0	0	cloudy.....	J. B. Campbell.
Fort Grant, Arizona	25.42	645 7	30.25	768.3	45	7.2	34	se.	3	1.3	.....	3 cs	0	.....	.....	0	0	clear.....	T. J. Macgowan.
Fort Griffin, Texas	29.19	741.4	30.54	775.7	49	9.4	86	sw.	2	0.9	.....	.....	10 n	.....	sw.	inap.	inap.	light raln...	G. H. Hayne.
Fort Keogh, Montana	27.94	709.7	30.59	777.0	28	— 2.2	59	se.	6	2.7	.....	8 cs	0	se.	.....	0	0	cloudy	W. B. Stockman.
Fort Macon, North Carolina	30.48	774.2	30.49	774.4	37	2.8	61	n.	17	7.6	.....	hz.	hz.	calm	calm	0	0	light haze..	L. Leonardy.
Fort McKavett, Texas	28.14	714.7	30.46	773.7	47.1	8.4	86	s.	5	2.2	.....	.....	10 s	.....	.....	0.03	0.8	cloudy	J. E. Thatcher.
Fort Missoula, Montana	27.10	688.3	30.48	774.2	35	1.7	89	sw.	3	1.3	.....	0	5 s	.....	.....	0	0	fair.....	J. H. Jones.
Fort St. Michaels, Alaska	29.97	761.2	30.00	762.0	— 6	—21.1	100	nw.	5	2.2	.....	0	0	.....	.....	0	0	clear.....	A. P. Leavitt.
Fort Shaw, Montana	26.72	678.7	30.52	775.2	26	— 3.3	67	ne.	1	0.4	.....	4 cs	0	.....	.....	0	0	fair.....	A. L. Mathews.
Fort Sill, Indian Territory	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	T. Cleary.
Fort Stevenson, Dakota	28.56	725.4	30.54	775.7	13	—10.6	83	nw.	19	8.5	.....	0	3 ks	.....	.....	0	0	clear.....	W. Burrows.
Fort Verde, Arizona	.....	.....	.....	.....	39.1	3.9	42	w.	.....	.....	1	0	0	.....	.....	0	0	clear.....	D. Brooks.
Fort Washakie, Wyoming	24.76	628.9	.....	.....	32.1	0.1	54	w.	5	2.2	.....	0	0	.....	.....	0	0	clear.....	T. M. Ambler.
Fredericksburg, Texas	28.66	728.0	30.42	772.7	50	10.0	80	calm	0	0	.....	.....	10 s	.....	.....	0.01	0.3	cloudy	H. S. Miles.
Galveston, Texas	30.42	772.7	30.46	773.7	62	16.7	41	e.	8	3.6	.....	10 cs	0	.....	.....	0.01	0.3	cloudy.....	E. O'C. MacInerney.
Grand Haven, Michigan	29.50	749.3	30.20	767.1	37.5	3.1	82	s.	24	10.7	.....	3 cs	4 s	w.	w.	0.05	1 3	fair.....	W. A. Reid.
Hatteras, North Carolina	30.46	773.7	30.48	774.2	40	4.4	57	n.	20	8.9	.....	3 k	hz.	.....	.....	0	0	clear.....	R. M. Crawford.
Helena, Montana	26.15	664.2	30.52	775.2	41	5.0	67	sw.	6	2.7	.....	.....	10 s	.....	sw.	0	0	cloudy.....	N. C. Smith.
Henrietta, Texas	29.48	748.8	30.52	775.2	48	8.9	93	w.	3	1.3	.....	.....	10 s	.....	.....	0.03	0.8	cloudy	J. W. Byram
Huron, Dakota	28 94	735.1	30.42	772.7	25	— 3.9	80	n.	15	6.7	.....	.....	10 s	.....	n.	0	0	cloudy.....	S. W. Glenn.
Indianapolis, Indiana	29.58	751.3	30.42	772.7	31	— 0.6	78	s.	5	2.2	.....	0	0	.....	.....	inap.	inap.	c'ear.....	O. Schutze
Indianola, Texas	30.41	772.4	30.44	773.2	56.8	13.8	69	ne.	21	9.4	.....	3 ck	5 ks	nw.	nw.	0.02	0.5	cloudy.....	I. A. Reed.
Jacksboro, Texas	29.30	744.2	30.51	774.9	49	9.4	77	sw.	8	3.6	.....	.....	10 s	.....	sw.	inap.	inap.	cloudy	J. P. Sherry.
Jacksonville, Florida	30.41	772.4	30.46	773.7	48	8.9	42	n.	8	3.6	.....	0	0	.....	.....	0	0	clear.....	J. W. Smith.
Keokuk, Iowa	29.52	749.8	30.22	767.6	40.0	4.4	48	sw.	8	3.6	.....	0	hz.	.....	.....	0	0	clear	F. Z. Goscwisch
Key West, Florida	30.26	768.6	30.28	769.1	71.0	21.7	62	ne.	23	10.3	.....	.....	10 s	.....	.....	0	0	cloudy.....	L. M. Melbourne.
Kittyhawk, North Carolina	30.48	774.2	30.50	774.7	36	2.2	69	nw.	14	6.3	.....	0	1 ks	.....	nw.	0	0	clear.....	E. A. Beals.
Knoxville, Tennessee	29.49	749.0	30.55	776.0	30.4	— 0.9	75	ne.	3	1.3	.....	0	0	.....	.....	0	0	clear.....	J. A. Cody.
La Crosse, Wisconsin	29.23	742.4	30.05	763.3	40	4.4	65	sw.	5	2.2	.....	0	0	.....	.....	0	0	clear.....	S. C. Emery.
La Mesilla, New Mexico	26.37	669.8	30.32	770.1	35.8	2.1	82	n.	2	0.9	.....	2 ck	0	sw.	.....	inap.	inap.	clear.....	N. D. Lane.
Leavenworth, Kansas	29.31	744.5	30.25	768.3	49	9.4	56	sw.	10	4.5	.....	1 cs	0	sw.	.....	0	0	clear.....	A. W. Browne.
Lewiston, Idaho	29.65	753.1	30.51	774.9	42	5.6	60	e.	6	2.7	.....	0	0	.....	.....	0	0	clear.....	W. Blake.
Little Rock, Arkansas	30.16	766.1	30.49	774.4	43	6.1	74	s.	3	1.3	.....	0	2 s	.....	calm	0	0	clear.....	M. F. Burrows.
Los Angeles, California	29.81	757.2	30.21	767.3	55.1	12.8	55	nw.	5	2.2	.....	0	0	.....	.....	0	0	clear.....	E. F. Kubel.
Louisville, Kentucky	29.90	759.4	30.49	774.4	37	2.8	82	se.	5	2.2	.....	0	0	.....	.....	inap.	inap.	clear.....	H. O. Smith.
Lynchburg, Virginia	29.79	756.7	30.51	774.9	33.2	0.7	68	sw.	1	0.4	.....	0	0	.....	.....	0	0	clear.....	T. H. Breen.
Madison, Wisconsin	29 09	738.9	30.16	766.1	35	1.7	79	sw.	6	2.7	.....	3 cs	0	w.	.....	0	0	fair.....	C. A. Shaw.
Marquette, Michigan	29.07	738.4	29.84	757.9	31	— 0.6	68	se.	7	3.1	.....	5 c	0	sw.	.....	inap.	inap.	fair.....	I. Gilligan.
Mason, Texas	28.75	730.2	30.44	773.2	51	10.6	66	sw.	3	1.3	.....	.....	10 s	.....	sw.	0.05	1.3	cloudy.....	A. M. Wilson.
Memphis, Tennessee	30.19	766.8	30.54	775.7	42	5.6	57	calm	0	0	.....	10 cs	0	w.	.....	0	0	cloudy.....	D. T. Flannery.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–01	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Milwaukee, Wisconsin	29.36	745.7	30.15	765.8	36	2.2	79	sw.	13	5.8	.....	2 ck	7 s	w.	.....	0	0	threatening	W. Line.
Mobile, Alabama	30.50	774.7	30.54	775.7	48	8.9	50	ne.	9	4.0	.....	9 cs	0	.....	.....	0	0	cloudy	J. D. Paxton.
Montgomery, Alabama	30.32	770.1	30.56	776.2	39.7	4.3	55	ne.	2	0.9	.....	5 cs	0	w.	.....	0	0	fair	J. B. McLaughlin.
Moorhead, Minnesota	29.34	745.2	30.42	772.7	12	—11.1	80	n.	32	14.3	.....	.....	10 s	.....	n.	0	0	cloudy	H. Bessant.
Morgantown, W. Virginia	29.48	748.8	30.54	775.7	34.0	1.1	71	sw.	4	1.8	.....	.....	10 s	.....	sw.	0.13	3.3	cloudy	J. Sprigg, jr.
Mt. Washington, N. H.	23.56	598.4	30.08	764.0	— 0.5	—18.1	89	nw.	48	21.5	.....	.....	fg.	.....	nw.	0.54	13.7	light fog	J. G. Linsley.
Nashville, Tennessee	30.00	762.0	30.56	776.2	35.0	1.7	79	calm	0	0	.....	0	fg.	.....	.....	0	0	clear	L. A. Jesunofsky.
New Haven, Connecticut	30.21	767.3	30.33	770.4	28.5	— 1.9	69	nw.	14	6.3	.....	0	0	.....	.....	0.01	0.3	clear	J. H. Sherman.
New London, Connecticut	30.28	769.1	30.33	770.4	31	— 0.6	57	nw.	13	5.8	.....	5 k	0	nw.	.....	0	0	fair	J. G. Lynch.
New Orleans, Louisiana	30.43	772.9	30.49	774.4	53.0	11.7	35	ne.	16	7.2	.....	10 c	0	w.	.....	0	0	cloudy	A. J. Armstrong.
Newport, Rhode Island	30.22	767.6	30.27	768.8	30.0	— 1.1	64	nw.	17	7.6	.....	0	0	.....	.....	inap.	inap.	clear	W. McGillivray.
New River, N. Carolina	.....	.....	.....	.....	35	1.7	69	nw.	.....	.....	1	0	0	.....	.....	0	0	clear	C. C. Corbin.
New Shoreham, Rhode I'd.	30.24	768.1	30.27	768.8	31.4	— 0.3	68	n.	28	12.5	.....	0	4 k	.....	n.	0	0	fair	W. Davis.
New York, New York	30.18	766.6	30.36	771.1	30.3	— 0.9	78	nw.	10	4.5	.....	0	0	.....	.....	inap.	inap.	clear	E. B. Garriott.
Norfolk, Virginia	30.48	774.2	30.51	774.9	37	2.8	46	n.	12	5.4	.....	0	0	.....	.....	0	0	clear	J. T. Elker.
North Platte, Nebraska	27.31	693.7	30.37	771.4	39.6	4.2	48	calm	0	0	.....	0	0	.....	.....	0	0	clear	E. F. Brady.
Olympia, Washington T'y	30.42	772.7	30.46	773.7	49.0	9.4	89	s.	3	1.3	.....	.....	10 n	.....	calm	0.06	1.5	light rain	J. Dascomb.
Omaha, Nebraska	28.97	735.8	30.22	767.6	36.2	2.3	69	s.	4	1.8	.....	2 c	0	.....	.....	0	0	clear	A. Pollak.
Ooglaamie, Pt. Barrow, Alas.	29.65	753.1	29.67	753.6	— 4.2	—20 1	93	sw.	10	4.5	.....	.....	10 n	.....	.....	0.02	0.5	light snow	P. H. Ray.
Oswego, New York	30.00	762.0	30.34	770.6	31.0	— 0.6	88	w.	10	4.5	.....	.....	10 s	.....	nw.	0.10	2.5	cloudy	S. W. Beall.
Palestine, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	L. M. Pindell.
Pensacola, Florida	30.49	774.4	30.52	775.2	47.4	8.6	45	n.	10	4.5	.....	7c cs	0	.....	.....	0	0	fair	M. McGauran.
Philadelphia, Pa	30.34	770.6	30.44	773.2	32	0.0	60	nw.	13	5.8	.....	0	0	.....	.....	inap.	inap.	clear	T. F. Townsend.
Pike's Peak, Colorado	17.87	453.9	30.46	773.7	6.5	—14.2	69	calm	0	0	.....	0	0	.....	.....	0	0	clear	L. M. Dey.
Pioche, Nevada	24.38	619.2	30.52	775.2	35	1.7	53	nw.	10	4.5	.....	0	0	.....	.....	0	0	clear	C. K. Kitchel.
Pittsburg, Pennsylvania	29.65	753.1	30.50	774.7	31.5	— 0.3	78	sw.	7	3.1	.....	.....	9 s	.....	sw.	0.07	1.8	cloudy	J. H. Bryce.
Port Eads, Louisiana	30.46	773.7	30.47	773.9	58.2	14.6	54	ne.	25	11.2	.....	0	hz.	.....	.....	0	0	clear	H. G. Christian.
Port Huron, Michigan	29.58	751.3	30.30	769.6	27.3	— 2.6	68	sw.	14	6.3	.....	10 cs	0	w.	.....	0.06	1.5	cloudy	W. O. Bailey.
Portland, Maine	30.16	766.1	30.21	767.3	31.0	— 0.6	72	n.	7	3.1	.....	0	0	.....	.....	0.05	1.3	clear	D. C. Murphy.
Portland, Oregon	30.41	772.4	30.48	774.2	43.0	6.1	100	nw.	4	1.8	.....	.....	fg.	.....	.....	0.01	0.3	dense fog	M. L. Hearne.
Portsmouth, N. Carolina	.....	.....	.....	.....	40	4.4	57	n.	24	10.7	.....	0	0	.....	.....	0	0	clear	F. P. Chaffee.
Prescott, Arizona	24.95	633.7	30.29	769.4	30	— 1.1	45	n.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. Mc N. Wright.
Provincetown, Mass.	30.17	766.3	30.20	767.1	30	— 1.1	88	nw.	16	7.2	.....	.....	10 s	.....	nw.	0.20	5.1	cloudy	P. T. Jenkins.
Punta Rassa, Florida	30.32	770.1	30.33	770.4	57.5	14.2	36	n.	18	8.0	.....	0	sk.	.....	.....	0	0	clear	W. J. Evans.
Red Bluff, California	29.94	760.5	30.32	770.1	50.2	10.1	59	n.	6	2.7	.....	0	1 s	.....	.....	0	0	clear	J. M. Frantz.
Rio Grande City, Texas	30.19	766.8	30.43	772.9	54	12.2	86	ne.	6	2.7	.....	.....	10 s	.....	.....	0	0	cloudy	W. H. Taylor.
Rochester, New York	29.68	753.9	30.38	771.6	23	— 5.0	88	w.	7	3.1	.....	2 cs	hz.	n.	ne.	0	0	clear	A. T. Sherwood.
Roseburg, Oregon	29.90	759.4	30.46	773.7	40	4.4	86	e.	1	0.4	.....	0	0	.....	.....	0.11	2.8	clear	J. J. Narry.
Sacramento, California	30.20	767.1	30.28	769.1	49.8	9.9	86	e.	4	1.8	.....	0	0	.....	.....	c	0	clear	J. A. Barwick.
St. Louis, Missouri	29.74	755.4	30.38	771.6	38.9	3.8	65	s.	15	6.7	.....	5 c	0	w.	.....	0	0	fair	J. H. Webber.
St. Paul, Minnesota	29.19	741.4	30.11	764.8	33.5	0.8	79	w.	6	2.7	.....	5 cs	0	w.	.....	0	0	fair	O. S. M. Cone.
St. Vincent, Minnesota	29.48	748.8	30.42	772.7	0	—17.8	83	nw.	24	10.7	.....	0	0	.....	.....	0	0	clear	G. Kingsbury.
Salt Lake City, Utah	26.04	661.4	30.56	776.2	32	0.0	52	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. Craig.
San Antonio, Texas	29.72	754.9	30.43	772.9	53.6	12.0	62	n.	3	1.3	.....	.....	10 s	.....	calm	inap.	inap.	cloudy	E. Lane.
San Diego, California	30.06	763.5	30.13	765.3	49.3	9.6	62	ne.	3	1.3	.....	0	0	.....	.....	0	0	clear	A. C. Dobbins.
Sandusky, Ohio	29.71	754.6	30.43	772.9	30	— 1.1	78	sw.	16	7.2	.....	5 ck	0	w.	.....	0.03	0.8	fair	M. H. Perry.
Sandy Hook, New Jersey	30.34	770.6	30.38	771.6	31.0	— 0.6	78	nw.	23	10.3	.....	3 k	0	nw.	.....	inap.	inap.	clear	B. A. Blundon.
San Francisco, California	30.21	767.3	30.28	769.1	51	10.6	86	calm	0	0	.....	0	fg.	.....	.....	0	0	clear	N. Gorom.
Santa Fé, New Mexico	23.41	594.6	30.39	771.9	33.7	0.9	44	n.	4	1.8	.....	0	0	.....	.....	0	0	clear	H. N. Jones.
Savannah, Georgia	30.41	772.4	30.50	774.7	43	6.1	49	n.	10	4.5	.....	1 cs	0	w.	.....	0	0	clear	H. M. Ford.
Shreveport, Louisiana	30.27	768.8	30.52	775.2	51	10.6	71	e.	2	0.9	.....	.....	10 s	.....	.....	0	0	cloudy	E. N. Meekins.
Silver City, New Mexico	24.44	620.8	30.22	767.6	31	— 0.6	65	se.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. B. Wallace.
Sitka, Alaska	29.47	748.5	29.54	750.3	34	1.1	78	se.	5	2.2	.....	.....	10 s	.....	se.	0	0	threatening	J. J. McLean.
Smithville, North Carolina	30.47	773.9	30.51	774.9	35	1.7	53	n.	5	2.2	.....	0	0	.....	.....	0	0	clear	J. C. Rickli.
Spokane Falls, Wash. Ter.	28.39	721.1	30.52	775.2	36	2.2	82	calm	0	0	.....	0	0	.....	.....	0	0	clear	D. Moore.
Springfield, Illinois	29.61	752 1	30.33	770.4	36	2.2	61	s.	15	6.7	.....	0	0	.....	.....	0	0	clear	T. B. Jennings.
Springfield, Massachusetts	30.18	766 6	30.32	770.1	29.8	— 1.2	67	nw.	8	3.6	.....	4 k	0	nw.	.....	0.01	0.3	fair	T. S. Outram.
Springfield, Mo.	28.91	734.3	30.47	773.9	42	5.6	65	s.	13	5.8	.....	4 c	3 s	.....	s.	0	0	fair	J. B. Marbury.
Stockton, Texas	27.29	693.2	30.37	771.4	56.0	2.2	85	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. O'Dowd.
Thatcher's Island, Mass.	30.22	767.6	30.28	769.1	29.0	— 1.7	77	s.	20	8.9	.....	5 k	0	sw.	.....	0.02	0.5	fair	G. Liebmann.
Toledo, Ohio	29.65	753.1	30.38	771.6	31.5	— 0.3	70	sw.	13	5.8	.....	5 ck	2 s	w.	.....	inap.	inap.	fair	A. Buell.
Tucson, Arizona	27.70	703 6	30.16	766.1	51	10.6	74	se.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. L. Whiteside.
Umatilla, Oregon	30.14	765.5	30.52	775.2	42.0	5.6	86	e.	3	1.3	.....	3 cs	0	.....	.....	0	0	clear	R. P. Sibley.
Uvalde, Texas	29.45	748.0	30.43	772.9	52	11.1	86	calm	0	0	.....	.....	10 s	.....	s.	0.13	3.3	cloudy	E. C. Imlay.
Vicksburg, Mississippi	30.28	769.1	30.54	775.7	44	6.7	51	e.	8	3.6	.....	1 k	4 s	calm	calm	0	0	fair	T. J. Kenan.
Visalia, California	29.88	758.9	30.26	768.6	45.3	7.4	85	s.	4	1.8	.....	0	4 s	.....	.....	0	0	fair	J. T. Cochran.
Washington, D. C.	30.38	771.6	30.50	774.7	30	— 1.1	78	nw.	4	1.8	.....	0	0	.....	.....	inap.	inap.	clear	B. M. Purssell.
West Las Animas, Colorado	26.30	668.0	30.38	771.6	29	— 1.7	49	w.	7	3.1	.....	0	0	.....	.....	0	0	clear	J. Grover.
Wickenburg, Arizona	.....	.....	.....	.....	43	6.1	83	calm	.....	.....	0	0	0	.....	.....	0	0	clear	H. A. Kremp.
Williamsport, Pa.	29.82	757.4	30.45	773.4	29	— 1.7	77	nw.	6	2.7	.....	.....	10 ks	.....	nw.	inap.	inap.	cloudy	B. F. Hough.
Wilmington, N. Carolina	30.46	773.7	30.52	775.2	38	3.3	54	n.	8	3.6	.....	hz.	0	calm	.....	0	0	clear	S. A. Haney.
Winnemucca, Nevada	26.03	661.2	30.53	775.4	28	— 2.2	77	ne.	6	2.7	.....	0	0	.....	.....	0	0	clear	J. R. Williams.
Yankton, Dakota	28.91	734.3	30.30	769.6	39	3.9	65	ne.	13	5.8	.....	0	0	.....	.....	0	0	clear	J. H. Attfield.
Yuma, Arizona	29.94	760.5	30.09	764.3	59.0	15.0	21	n.	5	2.2	.....	0	0	.....	.....	0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.08	560.8	.....	.....	55.5	13.1	85	calm	0	0	.....	.....	10 n; s	.....	n.	0.90	22.9	cloudy	Joaquin Gomez.
Bridgetown, Barbados, W. I.	30.08	764.0	30.09	764.3	79	26.1	78	ne.	.....	.....	.....	5 k	5 ks	ne.	ne.	0	0	fair	J. A. Racker.
Buenaventura, U. S. C.	30.06	763.5	30.08	764.0	76	24.4	95	calm	0	0	.....	.....	10 n	.....	calm	0.70	17.8	raining	J. I. Plume.
Guadeloupe, W. I.	29.98	761.5	30.00	762.0	76	24.4	83	e.	.....	.....	.....	2 k	2 ks	.....	.....	0	0	.....	B. Bigar.
Havana, Cuba, W. I.	30.23	767.8	30.28	769.1	75	23.9	76	n.	3.6	1.6	.....	.....	10 ks	.....	n.	0	0	cloudy	A. Van Caneghem.
Kingston, Jamaica, W. I.	30.14	765.5	30.15	765.8	71.5	21.9	85	calm	0	0	.....	0	1 s	.....	.....	0	0	fine	Robert Johnston.
Navassa	30.18	766.6	30.26	768.6	78	25.6	73	ne.	12	5.4	.....	8 k	5 s	e.	ne.	0	0	.....	F. M. Everett.
Paramaribo, S. A.	30.04	763.0	30.04	763.0	78	25.6	86	e.	.....	.....	2	5 k	7 ks	e.	.....	0	0	.....	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.55	750.6	30.01	762.2	77	25.0	90	calm	.....	.....	0	.....	10 s	.....	calm	0	0	cloudy	Miss Flora A. Nichols.
Rivas	.....	.....	.....	.....	.....	.....	92	ne.	.....	.....	3	0	k	.....	ne.	0	0	clear	Robert Mason.
Santiago de Cuba, W. I.	30.14	765.5	30.17	766.3	73	22.8	76	n.	4.8	2.1	.....	0	1 s	.....	n.	0	0	fair	
York Factory, B. A.	30.81	782.6	30.86	783.8	—14.0	—25.6	73	nw.	10	4.5	.....	0	0	.....	.....	0	0	clear	W. Wood.

STATIONS AND VESSELS.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
BRITISH NAVAL.																		
H. M. S. Agincourt, N. 39° 11′, E. 9° 06′	29.75	755.6	52.5	11.4	86	nw.			3–5		8	wnw.						squally.
H. M. S. Alert, S. 5° 41′, E. 53° 18′	29.79	756.7	90	32.2	69	e.			1		3							d. clouds.
H. M. S. Alexandra, N. 36° 01′ E. 14° 37′	29.88	758.9	66	18.9	78	ese.			4		10							misty.
H. M. S. Bacchante, Alexandria, Egypt	30.09	764.3	63	17.2	78	wnw.			1		3	wnw.						d. clouds.
H. M. S. Boadicea, S. 34° 11′, E. 18° 26′	29.97	761.2	78	25.6	59	ese.			3–4		0							blue sky.
H. M. S. Comus, N. 5° 50′, W. 115° 48′	29.91	759.7	77	25.0	100	ene.			2		3							d. clouds.
H. M. S. Daring, N. 16° 04′ E. 119° 30′	29.92	760.0	79	26.1		nne.			2		6	ssw.				2	nne.	d. clouds.
H. M. S. Diamond, S. 32° 03′, E. 115° 43′	29.81	757.2	68	20.0	84	ssw.			2		2							d. clouds.
H. M. S. Dido, N. 15° 30′, W. 61° 30′	30.11	764.8	78	25.6		ene.			2		3	ne.						d. clouds.
H. M. S. Dwarf, S. 34° 54′, W. 56° 10′	29.98	761.5	59	15.0	81	s.			6–7		7					4–6	s.	squally.
H. M. S. Eclipse, S. 16° 80′, E. 44° 27′	29.85	758.2	81	27.2		nw.			3–4		6					2	nne.	heavy rain.
H. M. S. Espiegle, S. 35° 36′, E. 99° 34′	30.34	770.6	59	15.0	87	se.			4		8					4	ese.	d. clouds.
H. M. S. Euryalus, N. 14° 00′ E. 42° 50′	29.76	755.9	82	27.8	74	sse.			5–6		5	se.				4	sse.	d. clouds.
H. M. S. Fawn, N. 15° 04′, E. 42° 14′	29.71	754.6	84	28.9	61	s.			5–6		8	ne.				3	s.	d. clouds.
H. M. S. Flying Fish, N. 34° 41′, E. 135° 12′	29.78	756.4	43	6.1	91	n.			1		8	nw.						misty.
H. M. S. Gannet, S. 32° 50′, W. 71° 50′	30.05	763.3	61	16.1	85	ene.			3–4		10					3	ssw.	overcast.
H. M. S. Garnet, S. 36° 41′ W. 55° 30′			60	15.6	48	s.			8		6					6	s.	d. clouds.
H. M. S. Inconstant, S. 22° 00′, E. 75° 00′	29.93	760.2	79	26.1	90	ne.			2		5	ese.				2	nne.	d. clouds.
H. M. S. Iron Duke, N. 22° 16′, E. 114° 10′	30.18	766.6	57	13.9	87	ene.			1–2		9	ne.						d. clouds.
H. M. S. Lark, S. 30° 28′, E. 169° 33′	30.10	764.5	69.3	20.7		se.			2		5					2	s.	d. clouds.
H. M. S. Liffey, Coquimbo, Chili	29.97	761.2	61	16.1		calm			0		10							overcast.
H. M. S. Magpie, N. 25° 15′, E. 122° 25′	30.15	765.8	61.5	16.4	61	ene.			2		5					5	ene.	d. clouds.
H. M. S. Malabar, N. 13° 25′, E. 48° 44′	29.93	760.2	83	28.3	95	ene.			4		4	ene.				3	ene.	d. clouds.
H. M. S. Orontes, N. 25° 43′ E. 35° 27′	29.88	758.9	71.5	21.9	86	nnw.			5		0					5	nnw.	blue sky.
H. M. S. Rambler, St. Paul de Loando, Benguiea	29.82	757.4	81	27.2		w.			2		5							d. clouds.
H. M. S. Ready, Muscat, Arabia	30.00	762.0	77.1	25.1		nw.			1		4							d. clouds.
H. M. S. Rocket, Vancouver Id., B. C.	30.39	771.9	46	7.8	100	calm			0		10							overcast.
H. M. S. Sea Gull, S. 60° 13′, E. 45° 18′	29.22	742.2	84	28.9	83	nne.			1–2		3	nne.				3	ene.	d. clouds.
H. M. S. Serapis, N. 36° 48′ W. 0° 02′	30.03	762.7	51	10.6	86	nne.			5		9	nne.				5	nne.	d. clouds.
H. M. S. Thalia, S. 25° 40′, W. 26° 07′	30.04	763.0	79	26.1		ne.			5		5					5	ssw.	d. clouds.
H. M. S. Triumph, N. 32° 54′ W. 72° 04′	30.07	763.8	60	15.6	94	ne.			3–4		10	calm				2	s.	d. clouds.
H. M. S. Woodlark, Bombay, India	29.80	756.9	83.5	28.6	71	w.			3		1	se.						misty.
PORTUGUESE NAVAL.																		
Quanza, Santago, Cape Verde Islands	30.02	762.4	73.4	23.0	74	ne.			3		5					3	ne.	d. clouds.
Rio Lima, Porto Praya, Cape Verde Islands	30.08	763.9	77.0	25.0	87	n.			1		3					1		d. clouds.
Tamega, Macao, China	30.14	765.6	66.2	19.0	79	e.			2		9							overcast.
UNITED STATES NAVAL.																		
Navy Yard, Pensacola, Fla	30.43	772.9	50	10.0	45	ne.	12	5.4			8		ne.	0	0			fair.
Navy Yard, Portsmouth, N. H	30.22	767.6	27	— 2.8	?	nw.	10	4.5			9		nw.	0	0			cloudy.
Naval Hospital, Yokohama, Japan	29.57	751.1	42	5.6	58	nnw.			2		8		w.	0	0			hazy.
Adams, Callao, Peru	29.74	755.4	69	20.6	95	sse.			1		0					gr'd		clear.
Alaska, S. 27° 42′, W. 72° 16′	29.99	761.7	64	17.8	73	nne.			1		5			0	0	sm'h		fair.
Alert, Hong Kong, China*	30.01	762.2	63	17.2	72	ese.			2		10		calm	0	0	sm'h		overcast.
Alliance, Kingston, Jamaica	30.11	764.8	77	25.0	82	e.			0–1		5			0	0	sm'h		fair.
Ashuelot, N. 32° 32′, E. 128° 56′	30.11	764.8	47	8.3	85	nw.			5		5		nw.			mod.	nw.	fair.
Brooklyn, Montevideo, Uruguay	29.98	761.5	60	15.6	82	ssw.	20	8.9			5		ssw.	0	0	mod.	ssw.	fair.
Colorado, New York, N. Y.	30.33	770.4	35	1.7	70	nw.	17	7.6			2		nw.	0	0			hazy.
Enterprise, N. 15° 30′ W. 64° 40′*	30.07	763.8	78	25.6	82	ne.			2–3		5							fair.
Essex, Monrovia Liberia, Africa	29.93	760.2	81	27.2	87	sw.			1		8					sm'h	w.	cloudy.
Franklin, Norfolk, Va.	30.52	775.2	37	2.8	100	nnw.	18	8.0			5		calm	0	0			fair.
Galena, Palermo, Sicily	29.75	755.6	75	23.9	52	se.			4		10					r'gh	se.	cloudy.
Independence, Navy Yard, Mare Island, Cal	30.13	765.3	46	7.8	100	calm			0		0			0	0			clear.
Kearsarge, N. 17° 45′, W. 76° 28′	30.12	765.0	76	24.4	82	nnw.			3		2		nw.			sm'h		fair.
Lackawanna, S. 28° 40′, W. 72° 35′†	30.16	766.1	66	18.9	89	nnw.			2		8		ne.			sm'h	nw.	cloudy.
Lancaster, Piraeus, Greece*	30.08	764.0	66	18.9	74	sse.			0–1		8		calm	0	0			fair.
Marion, S. 33° 54′, E. 18° 24′*†	30.04	763.0	76	24.4	73	w.			1		0					sm'h		hazy.
Michigan, Erie, Pa.	30.11	764.8	29	— 1.7	89	nw.			3		2		e.					fair.
Minnesota, Newport, R. I.	30.27	768.8	32	0.0		nnw.	12	5.4			2							fair.
Monocacy, N. 34° 25′ E. 137° 05′	29.85	758.2	44	6.7	92	w.			1		10		s.			sm'h		cloudy.
New Hampshire Newport, R. I.	30.25	768.3	33	0.6	70	n.			5		0					mod.	w.	clear.
Nipsic, N. 37° 27′, W. 0° 49′	30.02	762.5	54	12.2	44	nne.			0		10					rg'h	ne.	cloudy.
Onward, Callao, Peru†	30.09	764.3	66	18.9	100	calm			0		5		n.			long	w.	fair.
Palos, Kobe, Japan	29.84	757.9	39	3.9	82	w.			2		8		nw.					cloudy.
Passaic, Washington, D C.	30.12	765.0	43	6.1	82	nw.			5		8		nw.					cloudy.
Pensacola, Callao, Peru	30.01	762.2	66	18.9	94	ese.	1	0.4			0			0	0	sm'h		clear.
Portsmouth, Off Lower Cedar Point, Md.	30.47	773.9	30	— 1.1	89	n.			3		0					sm'h		clear.
Powhatan, St. George, Grenada, W. I.	30.07	763.8	82	27.8	71	nw.			1		8					long	wnw.	cloudy.
Quinnebaug, Messina, Sicily	29.88	758.9	61	16.1	82	ssw.			5		10		ssw.			sm'h		threatening
Ranger, Tyapan Point, Mexico*	29.99	761.7	73	22.8	90	ne.			1		2		calm	0	0	light	sw.	fair.
Richmond, N. 34° 28′, E. 139° 26′*	29.70	754.4	51	10.6	46	w.			5		10			0	0	mod.	w.	cloudy.
Shenandoah, St. Lucia, W. I*	30.12	765.0	75	23.9	77	se.			0–1		2					sm'h		clear.
St. Louis, League Island	30.58	776.7	41	5.0	11	nw.	7	3.1			0			0.07	1.8			clear.
Swatara, Kobe, Japan*	29.66	753.4	44	6.7	68	w.			2		8		nw.			sm'h		fair.
Tennessee, New Orleans, La.	30.45	773.4	55	12.8	50	ene.	13	5.8			10			0	0			cloudy.
Vandalia, Key West, Florida†	30.36	771.1	71	21.7	75	ne.			5		8		e.					fair.
Wabash, Boston, Mass.	30.25	768.3	29	— 1.7		nw.	7	3.1			2		nw.	0.04	1.0			fair.
Wachusetts, Sitka, Alaska	29.51	749.5	32	0.0		sw.			4		10		calm			sm'h		snowing.
Wyoming, Port Royal, S. C.	30.49	774.4	44	6.7	60	ne.	18	8.0			2		calm	0	0			clear.
Yantic, Vera Cruz, Mexico*	30.23	767.8	70	21.1	90	n.			3		8							cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Peruvian, N. 42° 40′ W. 51° 16′*	29.69	754.1	32	0.0		sw.			4		10		wsw.	6 h'r	6 h'r	mod.	sw.	hazy.
S. S. Polynesian, N. 42° 26′, W. 69° 31′*	29.97	761.2	31	— 0.6		nw.			2		8		wnw.	6 h'r	6 h'r	sm'h		snowing.
S. S. Prussian, Glasgow, Scotland*	29.80	756.9	72	22.2		wsw			5		8		sw.	4 h'r	4 h'r			cloudy.
S. S. Waldensian, Off Inishowen Head, Ireland*	30.27	768.8	48	8.9		w.			4		2		wsw.	4 h'r	4 h'r			showery.
AMERICAN STEAMSHIP COMPANY.																		
S. S. British Crown, Liverpool, Eng†	30.33	770.4	45	7.2		n.			5		8		wnw.	14 h'r	14 h'r			raining.
S. S. Illinois, St. George's Channel, Eng	30.08	764.0	56	13.3	93	wsw.			6		8		w.			mod.	w.	misty.
S. S. Indiana, N. 45° 44′, W. 34° 55′†	30.32	770.1	58	14.4	94	wsw.			3		2		w	0	0	mod.	n.	hazy.
S. S. Ohio, Philadelphia, Penn.			32	0.0	90	nw.			4		1		nw.					clear.
ANCHOR LINE.																		
S. S. Assyria, N. 36° 50′, W. 9° 10′*†	30.30	769.6	60	15.6		ne.			6		0			0	0	r'gh	ne.	clear.
S. S. Devonia, N. 40° 30′ W. 68° 40′†	30.10	764.5	40	4.4		calm			0		3		ne.			light	e.	light snow.
S. S. Galatia, North river, N. Y†.	30.39	771.9				nw.			6		2			0	0			fine.
S. S. Utopia, N. 34° 20′, W. 47° 34′*†	30.08	764.0	68	20.0	90	ssw.			3		5		sw.	1 h'r	1 h'r	mod.	se.	fair.
ATLAS LINE.																		
S. S. Allan, Savanilla, U. S. C.†	29.99	761.7	76	24.4	86	ne.			2		2		nne.	0	0			fine.
S. S. Arden, N. 18° 28′, W. 66° 07′						ne.										sm'h		cloudy.
S. S. Athos, Kingston, Jamaica, W. I.	29.68	753.9									0			0	0			clear.
BRITISH METEOROLOGICAL OFFICE.																		
S. Auckland, N. 31° 11′, W. 37° 10′	30.40	772.1	66	18.9		se.			5		8							d. clouds.
S. Baroda, S. 28° 38′, E. 80° 55′	30.07	763.8	74.4	23.6	86	nne.			3		9							d. clouds.
British Merchant, N. 11° 09′, E. 91° 22′	29.85	758.2	87	30.6	71	w.			1		1							misty.
Bk. Caldew, N. 24° 26′, W. 37° 16′	30.23	767.8	70.2	21.2		se.			8		10							overcast.
Bk. Commewyne, N. 31° 30′, W. 55° 09′	30.18	766.6	66.8	19.3	71	s.			2		10							overcast.
S. S. Gordon Castle, N. 6° 29′, E. 103° 01′	29.87	758.7	82	27.8	83	ene.			4		2							d. clouds.
Bg. Hermine, S. 2° 37′, W. 28° 41′	29.91	759.7	81.7	27.6	81	ese.			5		4							d. clouds.
S. Lochee, N. 46° 20′, W. 32° 33′	30.19	766.8	52	11.1	93	ssw.			6		10							misty.
S. S. Minho, N. 44° 20′, W. 9° 00′	30.43	772.9	60.1	15.6	58	n.			3		4							d. clouds.
CROMWELL LINE.																		
S. S. Hudson, N. 26° 47′, W. 86° 23′*†	30.33	770.4	74	23.3		n.			7		3		ne.	0	0	h'vy	ne.	fair.
CUNARD LINE.																		
S. S. Scythia, N. 47° 35′, W. 32° 30′†	30.04	763.0	58	14.4	93	sw.			6		10		sw.	0	0	r'gh	sw.	misty.
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. Canada, N. 45° 13′, W. 36° 30′	30.25	768.4	57.2	14.0		ssw.			5		10		ssw.	2 h'r	2 h'r		sw.	
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Bohemia, New York, N. Y.*†	30.16	766.1				nw.			5		2		n.	0	0			fine.
S. S. Gellert, N. 46° 10′, W. 36° 30′	30.07	763.8	60	15.6		sw.			6		10		sw.	3 h'r	3 h'r	long	sw.	light rain.
S. S. Lessing, N. 52° 09′ E. 2° 05′*	30.17	766.3	49	9.4		nw.			4		8		nw.	0	0	sm'h	nnw.	
S. S. Silesia, Hamburg, Germany.*†	29.82	757.4	50.4	10.2		w.			2		0							
JOHNSTON LINE.																		
S. S. Thanemore, N. 42° 38′, W. 47° 00′	30.02	762.5				s.			6		8		s.	rain	rain		sw.	hazy.
LEYLAND LINE.																		
S. S. Iberian, N. 42° 25′, W. 66° 58′						nw.			1		7		nnw.	0	0			
MALLORY LINE.																		
S. S. Colorado, N. 27° 45′, W. 90° 32′†	30.34	770.6	64	17.8		ne.			6		10		ne.	0	0	high	ne.	cloudy.
MERCHANTS' EXPRESS LINE.																		
S. S. Freja, N. 45° 58′, W. 34° 25′†	30.26	768.6	59	15.0	88	ssw.			6		10		sw.	0	0	cross	s.	
S. S. Hermod, Havre, France.*†	29.96	761.0	50.0	10.0		n.			3		2		n.	0	0			fair.
NATIONAL LINE.																		
S. S. Erin, New York, N. Y						nw.			5		0			0	0			clear.
S. S. Italy, N. 41° 32′, W. 47° 50′	30.01	762.2				s.			6		8		s.	10 h'r	10 h'r	r'gh	ssw.	cloudy.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Niagara, Havana, Cuba, W. I.†	30.37	771.4	75	23.9		calm					0			0	0			clear.
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Alvena, N 18° 31′, W. 66° 29′*†	29.93	760.2	71	21.7		sw.			2								ne.	clear.
S. S. Atlas, Off Cape Haytian, Hayti, W. I.*†	30.24	768.1	76	24.4		calm			0							sm'h		clear.
S. S. Bothnia, N. 48° 10′, W. 33° 05′	29.92	760.0	56	13.3		wsw.			5							h'vy	wsw.	rainy.
S. S. City of Washington, N. 22° 42′, W. 85° 37′*†	30.25	768 3	80	26.7		ne.			3								sw.	fine.
S. S. Mass. N. 39° 58′ W. 56° 21′*	29.94	760.5	52	11.1		wnw.			1							high	w.	raining.
S. S. New York, N. 30° 15′, W. 80° 45′*†	30.40	772.1	60	15.6		ne.			3								ne.	clear.
S. S. Olbers, S. 6° 26′ W. 31° 00*†	29.95	760.7	83	28.3		ese.			5								ese.	clear.
NORTH GERMAN LLOYD																		
S. S. Elbe, N. 41° 36′ W. 55° 50′	29.95	760.7	41.9	5.5		n.			6		8		n.	rain	rain	mod.	n.	squally.
S. S. Hermann, N. 43° 39′, W. 42° 32′*†	30.19	766.8	59.0	15.0		sw.			6		5		sw.	0	0	long	sw.	fair.
S. S. Koln, N. 49° 17′ W. 15° 34′*	30.34	770.6	55.0	12.8	78	w.			6		10		w.	0	0	high	wnw.	fine.
S. S. Leipzig, N. 46° 42′, W. 33° 53′	30.16	766.1	58.0	14.4	94	ssw			6		10		wsw.	4 h'r	4 h'r	r'gh	sw.	misty.
S. S. Main, Bremerhaven, Germany*	30.10	764.5	59.0	10.0		nnw.			3–4		8		nnw.	0	0			squally.
S. S. Neckar, N. 49° 13′, W. 12° 37′	30.26	768.6	56.3	13.5		w.			4		3†		w.	2 h'r	2 h'r	mod.	w.	covered?
S. S. Oder, N. 44° 43′, W. 42° 42′	30.03	762.7	67.8	19.9		ssw.			6		3†		sw.	0	0	long	sw.	cloudy.?
S. S. Ohio, N. 52° 28′, E. 3° 12′	30.22	767.6				nw.			4		5		nw.	0	0	sm'h	nnw.	fair.
S. S. Saller, N. 40° 14′, W. 70° 26′	30.25	768.3	25.6	2.0		nnw.			6		10		nw	2 h'r	2 h'r	mod.	nw.	cloudy.
S. S. Strassburg, N. 50° 37′, W. 0° 24′	30.27	768.8	53.0	11.7	73	w.			1		8		nw.	0	0	sm'h		hazy.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Belgic, N. 37° 13′ E. 150° 40′†	29.78	756.4	57	13.9	81	ne.			4		8		ene.	0	0	r'gh	e.	cloudy.
S. S. Gaelic, Hong Kong, China†	30.07	763.8	61	16.1	82	calm			0		2		se.					clear.
S. S. Oceanic, N. 35° 16′ W. 151° 46′*	30.09	764.3	61	16.1	94	s.			5		6		s.			4	w.	fine.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, New York, N. Y.†	30.33	770.4				nnw.			5		5†		nw.	0	0			clear.
S. S. Seminole, Boston, Mass†	30.32	770.1	34	1.1	79	nnw.			3		2		nnw.	6 h'r	6 h'r			clear.
OREGON IMPROVEMENT COMPANY.																		
S. S. Missi-sippi, N. 39° 20′, W. 124° 01′†	30.37	771.4	49	9.4	93	nw.			2		fg					light	nw.	foggy.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Columbia, N. 38° 09′ W. 123° 10′†	30.28	769.1	53	11.7	77	nw.			1		10		calm	0	0	sm'h	w.	foggy.
S. S. Oregon, Portland, Oregon.†	30.49	774.4	45	7.2	92	calm			0		fg							foggy.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, San Francisco, Calf	30.23	767 8	48	8.9	92	nw.			1		0							clear.
S. S. Geo. W. Elder, Strait of Fuca,†	30.43	772.9	45	7.2		se.			5		8		se.	h'vy	h'vy	light	se.	cloudy.
S. S. Idaho, N. 42° 02′, W. 124° 35′†	30.36	771.1	46	7.8	100	nne.			2		10		ne.			light	w.	foggy.
S. S. Orizaba, N. 32° 40′, W. 117° 11′†	30.12	765.0	55	12.8	80	se.			1				nw.	0	0	light	nw.	clear.
S. S. State of California, San Francisco, Calf†	30.27	768.8	49	9.4	85	n.			2		0			0	0			clear.
S. S. Victoria, San Francisco, Calf†	30.27	768.8	45	7.2	92	calm			0		0							clear.
PACIFIC MAIL STEAMSHIP CO.																		
S. S. Australia, Sydney, N. S. W.	30.17	766 3	70	21.1	90	calm			0		0			0	0			clear.
S. S. City of New York, N. 08° 20′ W. 162° 30′†	29.97	761.2	82	27.8	91	ese.			2		0			0	0	sm'h	ne.	clear.
S. S. City of Pekin, N. 13° 30′, W. 90° 08′†	30.01	762.2	82	27.8	75	ne.			4		5		e.	0	0	sm'h		hazy.
S. S. City of Rio de Janeiro, Manzanillo, Mexico†	30.24	768.1	78	25.6	78	n.			2		0			0	0	long	n.	clear.
S. S. City of Sydney, S. 23° 56′, E. 152° 52′†	30.24	768.1	74	23.3	68	ne.			3		5		ne.	0	0	mod.	ne.	cloudy.
S. S. City of Tokio, N. 35° 45′, W. 141° 42′†	30.42	772.7	59	15.0	94	sw.			4		10			10 h'r	10 h'r	light	ssw.	foggy.
S. S. Clyde, N. 23° 33′, W. 110° 40′†	30.07	763.8	67	19.4	84	ne.			2		8		ne.	0	0	light	nnw.	cloudy.
S. S. Colon, N. 36° 06′, W. 73° 55′†	30.42	772.7	40	4.4		nnw.			6		10		nnw.			large	nnw.	cloudy.
S. S South Carolina, N. 7° 38′, W. 81° 57′†	30.03	762.7	82	27.8	83	n.			1		10		ne.	1 h'r	1 h'r	sm'h		raining.
RE STAR LINE.																		
S. S. Nederland, N. 49° 50′, W. 5° 22′*†	30.80	782.3	52	11.1		wsw.			2		10		sw.	12 h'r	12 h'r	short	wsw.	cloudy.
S. S. Rhynland, Jersey City, N. J.	30.28	769.1	32	0.0		nw.			4		0			0	0			clear.
S. S. Switzerland, N. 48° 11′, W. 22° 51′†	30.30	769.6				wsw.			5		10		wsw.	0	0	cross	wsw.	misty.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
RED STAR LINE—Continued.																		
S. S. Vaderland, N. 40° 15′, W. 57° 33′	29.97	761.2	46	7.8	.....	wnw	.....	.....	5	.....	8	.....	wnw.	6 h'r	6 h'r	cross	wnw.	hazy.
S. S. Waesland, Antwerp, Belgium..	30.00	762.0	46	7.8	.....	nw.	.....	.....	5	.....	2	.....	w.	0	0	.....	.....	fair.
ROTTERDAM LINE.																		
S. S. W. A. Scholten, N. 49° 25′, W. 13° 46′*..	30.16	766.1	61.1	16.2	74	wsw.	.....	.....	6	.....	10	.....	w.	1 h'r	1 h'r	mod.	w.	rainy.
THINGVALLA LINE.																		
S. S. Thingvalla, Copenhagen, Denmark†	30.02	762.5	45.5	7.5	.....	sw.	.....	.....	2	.....	3	.....	sw.	0	0	.....	.....	clear.
WHITE STAR LINE.																		
S. S. Adriatic, N. 50° 50′, W. 14° 46†*	30.20	767.1	52	11.1	.....	wsw.	.....	.....	6	.....	10	.....	nw.	sh'rs	shr's	r'gh	wsw.	misty.
S. S. Britannic, N. 43° 04′ W. 50° 05′*†	29.78	756.4	42	5.6	.....	wsw.	.....	.....	3	.....	fg	.....	.....	2 h'r	2 h'r	hv'y	wsw.	foggy.
S. S. Celtic, New York, N. Y.†	30.17	766.3	39	3.9	81	wnw.	.....	.....	5	.....	2	.....	w.	c	o	.....	.....	fair.
S. S. Republic, N. 45° 04′ W. 41° 00′†	30.13	765.3	60	15.6	88	wsw.	.....	.....	6	.....	8	.....	wsw.	o	o	mod.	wsw.	cloudy.
WILSON LINE.																		
S. S. Salerno, N. 40° 42′ W. 46° 20′†	30.03	762.7	57	13.9	.....	ssw.	.....	.....	5	.....	9	.....	ssw.	.....	.....	mod.	ssw.	misty.
WINSOR LINE.																		
S. S. Catherine Whiting, Off Fire Island, N. Y.†	30.37	771 4	.....	.....	.....	nw.	.....	.....	4	.....	.....	.....	nw.	.....	.....	.....	.....	
MISCELLANEOUS.																		
Sch. Addie Fuller, Cedar Keys, Florida†	30.50	774.7	49	9.4	57	nne.	.....	.....	2	1 c	sk	.....	.....	o	o	.....	.....	clear.
Bk. Adelaide, Rio de Janeiro, Brazil*†	30.00	762.0	80	26.7	.....	wsw.	.....	.....	.....	.....	.....	.....	sw.	o	o	.....	.....	hazy.
Bk. Aureola, N. 40° 30′, W. 74° 00′*†	30.60	777.2	40	4.4	.....	nnw.	.....	.....	5	.....	2	.....	.....	o	o	sm'h	.....	fair.
Bk. Bergenseren, N. 35° 07′ W. 27° 20′†	30.60	777.2	.....	.....	.....	ene.	.....	.....	3	.....	.....	.....	ene.	o	o	2	ene.	overcast.
Bk. Celestina, N. 8° 43′, W. 33° 55′*†	29.95	760.7	.....	.....	.....	ne.	.....	.....	3	.....	3	.....	ne.	o	o	r'gh	nne.	hazy.
S. S. Compton, N. 23° 42′ W. 82° 03′.†	30.29	769.4	.....	.....	.....	nne.	.....	.....	3–4	.....	10	.....	sw.	1 h'r	1 h'r	chop	var.	squally.
Bk. E. L. Pettingill, S. 15° 51′, W. 102° 47††	30.10	764.5	.....	.....	.....	e.	.....	.....	3	.....	1	.....	ese.	o	o	sm'h	.....	
Ship Festina Lente, N. 59° 28′, E. 1° 35′*	29.72	754.9	.....	.....	.....	sw.	.....	.....	6	.....	10	.....	w.	2 h'r	2 h'r	cross	ne.	cloudy.
U.S.F.C.S.S.Fish Hawk, Blackistone Island, Md†	30.52	775.2	35	1.7	70	nnw.	.....	.....	5	.....	1	.....	nw.	o	o	.....	.....	clear.
Bk. Freya, Baltimore, Md	.....	.....	32	0.0	.....	nw.	.....	.....	2	.....	2	.....	nnw.	o	o	.....	.....	fair.
S. Grecian, S. 2° 14′ W. 29° 40′*†	29.95	760.7	80	26.7	.....	se.	.....	.....	4	.....	1	.....	se.	1 h'r	1 h'r	sm'h	se.	clear.
Bk. Geo. Booth, S. 33° 43′, E. 15° 36′*†	29.95	760.7	.....	.....	.....	sse.	.....	.....	8—9	.....	2	.....	.....	o	o	hv'y	sse.	
Bk. Granville, S. 25° 54′, W. 27° 13′*†	30.20	767.1	.....	.....	.....	ne.	.....	.....	3	.....	.....	.....	ne.	rain	rain	sm'h	.....	cloudy.
S. Hedwig, N. 58° 41′, W. 1° 44′	29.73	755.2	46.0	7.8	93	wsw.	.....	.....	5	.....	4	.....	wsw.	o	o	3	sw.	fine.
Schr. Henry Denison, N. 9° 23′, W. 59° 40′†	29.98	761.5	.....	.....	.....	ne.	.....	.....	3	.....	4	.....	nne.	o	o	mod.	ne.	fair.
Bk. Johanne Auguste, S. 3° 37′, E. 89° 10′*..	29.73	755.1	.....	.....	.....	calm	.....	.....	0	.....	0	.....	.....	o	o	sm'h	.....	clear.
Bg. John Wesley, N. 26° 45′, W. 75° 20′†	30.33	770.4	70	21.1	.....	e.	.....	.....	2	.....	9	.....	e.	o	o	.....	.....	cloudy.
Bkt. Josephine, N. 20° 23′. W. 73° 10′*†	30.31	769.9	78	25.6	69	ne.	.....	.....	4	.....	2	.....	ne.	o	o	sm'h	.....	fair.
Bkt. Kryolith, N. 40° 53′, W. 11° 21′*†	30.34	770.6	.....	.....	.....	nne.	.....	.....	6	.....	2	.....	.....	o	o	mod.	nne.	clear.
Bk. Liberia, N. 39° 25′, W. 70° 40′*	30.31	769.9	.....	.....	.....	wnw.	.....	.....	6	.....	4	.....	nw.	o	o	.....	.....	clear.
Schr. Maggie Abbott, N. 27° W. 75°*†	30.20	767.1	.....	.....	.....	nne.	.....	.....	4	.....	.....	.....	ne.	o	o	short	nnw.	clear.
S. S. Nebo, N. 22° 24′, W. 56° 34′*†	30.00	762.0	.....	.....	.....	ene.	.....	.....	3	.....	1	.....	ene.	o	o	sm'h	.....	clear.
Bk. Peppina, N. 37° 37′, W. 0° 14′†	30.01	762 2	54	12.2	49	ne.	.....	.....	3	.....	8	.....	w.	.....	.....	mod.	ne.	cloudy.
Bk Pilgrim, S. 42° 18′, E. 103° 15′*†	30.20	767 1	.....	.....	.....	s.	.....	.....	3	.....	.....	.....	sw.	light	light	cross	s. to w	cloudy.
Bg. Potomac, N. 34° 45′, W. 72° 22′	30.30	769.6	.....	.....	.....	nnw.	.....	.....	4	.....	.....	.....	n.	.....	.....	h'vy	nnw.	cloudy.
Bkt. Spotless, N. 28° 45′, W. 43° 18′*†	30.20	767.1	.....	.....	.....	se. to s.	.....	.....	.....	.....	.....	.....	se.	.....	.....	hv'y	se.	squally.
Bk. Stella, S. 57° 54′, W. 67° 24′*..	29.86	758.4	43.7	6.5	92	w.	.....	.....	8	.....	6	.....	w.	o	o	r'gh	.....	squally.
Bk. Sunbeam, N. 37° 57′. W. 74° 33′*†	30.41	772.4	38	3.3	63	nnw.	.....	.....	6	.....	2	.....	nnw.	o	o	mod.	nnw.	fair.
S. S. Victoria J. Peed, N. 36° 03′, W. 75° 23′	.....	.....	.....	.....	.....	nnw.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Bg. Wauburn, S. 12° 55′, W. 18° 00′*†	30.00	762.0	.....	.....	.....	ese.	.....	.....	5	.....	3	.....	ene.	.....	.....	sm'h	.....	
S. Wm. Woodbury, N. 53° 25′, E. 3° 45′*†	30.02	762.5	50	10.0	86	sw.	.....	.....	6	.....	1	.....	w.	.....	.....	sm'h	w.	clear.

Data, as appearing in the International Bulletin of similar date.

Isobars in *black* exhibit atmospheric pressure at sea-level, and are charted from data as reported by the several observers.

Isotherms in *red* exhibit temperature of air, similarly charted.

Broken or dotted lines indicate that the lines so broken are doubtful.

Arrows, when charted, fly with the wind and exhibit wind-direction and force.

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W. B. Hazen

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

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INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON MARCH 24, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind.		Clouds. Direction.		Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.		
ALGERIAN.																			
Nemours	.....	.....	30.11	764.8	59.7	15.4	83	W.	.....	.....	2	.....	0	.....	.....	0.331	8.4	clear	Moiroud.
Algiers	.....	.....	30.06	763.5	52.5	11.4	66	n.	.....	.....	2	.....	10	.....	.....	0.480	12.2	covered	Nicolas.
La Calle	.....	.....	30.02	762.4	51.8	11.0	68	nw.	.....	.....	6	.....	5	.....	.....	1.181	30.0	cloudy	Fonfréde.
Tunis	.....	.....	29.95	760.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.11	764.8	41.0	5.0	87	n.	.....	.....	2	.....	4	.....	.....	0	0	cloudy	Dumas.
Tebessa	.....	.....	30.04	763.0	47.1	8.4	32	sw.	.....	.....	2	.....	0	.....	.....	inap.	inap.	clear	Derché.
Geriville	.....	.....	.....	.....	46.0	7.8	31	n.	.....	.....	3	.....	1	.....	.....	inap.	inap.	very fair	Lonchamp.
Laghouat	.....	.....	30.14	765.5	51.8	11.0	65	nw.	.....	.....	3	.....	0	.....	.....	0	0	clear	Herbin.
Biskra	.....	.....	30.03	762.8	60.4	15.8	23	nw.	.....	.....	0	.....	0	.....	.....	0	0	clear	Malau.
AUSTRALIAN.																			
Melbourne, Victoria	29.92	759.9	30.01	762.2	79.4	26.3	33	nne.	7	3.1	.....	.....	4	.....	.....	0	0	.....	R. L. J. Ellery.
AUSTRO-HUNGARIAN.																			
Agram	29.28	743.8	29.84	758.0	45.7	7.6	83	se.	.....	.....	1	.....	10	.....	.....	0.087	2.2	raining	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.17	740.9	29.95	760.7	44.2	6.8	85	sw.	2.5	1.1	.....	.....	10	.....	.....	c	0	.....	Dr. Wierzbiski.
Eperies	29.02	737.0	29.87	758.7	64.8	18.2	43	s.	.....	.....	3	.....	10 s	.....	n.	0	0	.....	Julius Mikolik.
Gratz	28.59	726.2	29.85	758.1	48.4	9.1	83	w.	.....	.....	2	.....	10	.....	.....	0.402	10.2	.....	Andreas Rospini.
Hermannstadt	28.57	725.6	29.95	760.7	69.4	20.8	34	sse.	.....	.....	5	.....	7	.....	.....	0	0	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.51	724.1	29.89	759.1	38.7	3.7	88	calm	.....	.....	0	.....	10	.....	.....	.....	.....	light rain	The Staff.
Lemberg	28.98	736.2	29.96	760.9	59.5	15.3	54	s.	.....	.....	1	.....	9	.....	.....	0	0	.....	Dr. T. Stanecki.
Pola	29.60	751.8	29.71	754.7	52.9	11.6	94	se.	.....	.....	1	.....	10	.....	.....	0.370	9.4	.....	I. R. Hydrographic Office.
Szathmar	29.46	748.3	29.92	760.0	70.9	21.6	30	se.	.....	.....	3	.....	9	.....	.....	0	0	.....	Joseph Midlinszky, S. J.
Szegedin	29.61	752.0	29.92	759.9	64.9	18.3	53	s.	.....	.....	4	.....	10	.....	.....	0	0	.....	Karl Stancel.
Trieste	29.62	752.3	29.74	755.3	51.1	10.6	72	ne.	.....	.....	4	.....	10	.....	.....	0.480	12.2	raining	Rieder.
Vienna	29.18	741.1	29.91	759.6	44.2	6.8	80	calm	.....	.....	0	.....	10	.....	.....	0.004	0.1	.....	I. R. Central Met. Obs'y.
BRITISH.																			
Aberdeen	28.99	736 3	29.09	738.9	50.8	10.4	69	sw.	31	13.9	.....	.....	9	.....	.....	0.010	0.3	showery	W. Boswell.
Armagh, Observatory	29.16	740.7	29.41	747.0	49.0	9.4	92	w.	18	8.0	.....	.....	10	.....	.....	.....	.....	raining	S. Cail.
Bidston, Liverpool Obs'y	.....	.....	29.50	749.3	51.4	10.8	88	sw.	31	13.9	.....	.....	10	.....	.....	.....	.....	raining	John Harmup.
Bolton, Sharples	28.96	735.6	29.50	749.3	47.8	8.8	88	ssw.	12	5.4	.....	.....	10	.....	.....	.....	.....	raining	Thomas Mackereth. [A.S.
Bradford, Yorkshire	29.04	737.6	29.44	747.8	49.7	9.8	82	w.	.....	.....	3	.....	10	.....	.....	0.40	10.2	raining	J. McLandsborough, F. R
Bridgetown, Barbadoes	29.96	761.0	29.99	761.7	82.0	27.8	57	ne.	.....	.....	2	.....	6	.....	.....	.....	.....	gloomy	Pvt. J. Surgenor, A. H.C.
Cardington	.....	.....	29.64	752.8	53.0	11.7	73	w.	.....	.....	4.0	.....	10	.....	.....	.....	.....	overcast	John McLaren.
Chatham, School M. E.	29.63	752.6	29.76	755.9	51.9	11.1	83	sw.	.....	.....	2	.....	9	.....	.....	blank	blank	clouds	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	29.61	752.1	29.84	757.9	51.9	11.1	96	wsw.	.....	.....	3	.....	10	.....	.....	.....	.....	rain & fog	The Staff.
Fort Napier, Natal	27.72	704.1	29.93	760.2	72.0	22.2	52	se.	.....	.....	1	.....	1	.....	.....	.....	.....	blue sky	Pvt. E. K. Annis, A. H.C.
Free Town, Sierra Leone	29.56	750.8	29.79	756.7	89.0	31.7	63	w.	.....	.....	1	.....	4	.....	.....	.....	.....	blue sky	Sergt. John Robinson.
Galway, Queen's College	.....	.....	29.48	748.8	.....	.....	.....	w.	.....	.....	4	.....	8	.....	.....	.....	.....	gloomy	J. O'Donaghue.
Gibraltar, Mediterranean	30.05	763.3	30.10	764.5	62.5	16.9	83	e.	.....	.....	2	.....	0	.....	.....	.....	.....	blue sky	Opl. O. Baldwin.
Glasgow, Observatory	29.05	737.9	29.26	743.2	46.8	8.2	81	w.	.....	.....	5	.....	10 n	.....	.....	d. clouds	.....	Harry Urquhart, Asst.	
Greenwich, Royal Obs'y	29.58	751.3	29.75	755.6	53.1	11.7	79	sw.	.....	.....	4	.....	10	.....	.....	.....	.....	overcast	The Staff.
Guernsey	29.53	750.0	29.83	757.7	50.0	10.0	96	w.	.....	.....	2	.....	10	.....	.....	.....	.....	drizzling	A. Collenette, F. M. S.
Kew, Observatory	29.72	754.9	29.76	755.9	54.6	12.6	68	sw.	24	10.7	.....	.....	10	.....	.....	.....	.....	threatening	The Staff.
Leicester, Museum	29.36	745.7	29.61	752.3	51.4	10.8	72	sw.	.....	.....	2	.....	10	.....	.....	.....	.....	overcast	J. G. Smith.
Malta, Mediterranean	29.68	753.9	29.75	755.6	66.0	18.9	68	w.	.....	.....	2	.....	7	.....	.....	.....	.....	d. clouds	I. H. Whysall.
Nassau, Bahamas	30.26	768.6	30.30	769.6	72.0	22.2	65	ne.	.....	.....	2	.....	5	.....	.....	.....	.....	d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.09	738.9	29.61	752.1	49.9	9.9	80	ssw.	.....	.....	3	.....	10	.....	.....	.....	.....	drizzling	John Mac Email.
Oxford, Radcliffe Obs'y	29.49	749.0	29.72	754.9	52.7	11.5	71	sw.	.....	.....	5	.....	10	.....	.....	.....	.....	squally	The Staff.
Plymouth	29.74	755.4	29.81	757.2	51.2	10.7	96	sw.	.....	.....	3	.....	10	.....	.....	.....	.....	drizzling	John Merrifield.
Sandwick Manse, Orkneys	.....	.....	28.93	734.8	44.3	6.8	79	w.	40	17.9	.....	.....	6	.....	.....	.....	.....	showery	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	30.11	764.8	30.17	766.3	55.2	12.9	67	sw.	.....	.....	1	4 c	0	.....	.....	.....	.....	d. clouds	W. H. Lyne.
Sheffield	29.22	742.2	29.49	749.0	51.6	10.9	78	sw.	.....	.....	4	.....	10	.....	.....	0.19	4.8	overcast	W. F. Cooper.
Silloth Rectory	29.30	744.2	29.32	744.7	46.7	8.2	96	ssw.	.....	.....	6	.....	10	.....	.....	0.465	11.8	raining	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	29.50	749.3	47.6	8.7	92	sw.	18	8.0	.....	.....	10	.....	.....	.....	.....	raining	R. S. J. Perry.
Stratfield Turgiss	29.54	750.3	29.76	755.9	54.0	12.2	73	sw.	.....	.....	4	.....	9	.....	.....	.....	.....	squally	Rev. J. H. Griffiths, F.M.S.
Truro, Royal Institution	29.74	755.4	29.79	756.7	56	13.3	87	w.	.....	.....	6	.....	10	.....	.....	.....	.....	raining	W. Newcombe.
Valencia, Observatory	29.67	753.6	29.69	754.1	53.6	12.0	90	wsw.	32	14.3	.....	.....	10	.....	.....	.....	.....	misty	The Met'g'l Office.
CANADIAN.																			
Bathurst, N. B.	.....	.....	.....	.....	26.0	— 3.3	.....	s.	7	3.1	.....	.....	10 n	.....	.....	0	0	cloudy	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.98	761.5	30.02	762.5	19	— 7.2	85	s.	18	8.0	.....	.....	10 s	.....	.....	0	0	fair	H. J. Cundall, C. E.
Chatham, N. B*	29.79	756.7	29.86	758.4	24	— 4.4	84	s.	6	2.7	.....	.....	10 s	.....	s.	0	0	cloudy	G. A. Blair.
Cornwall, Ontario	29.72	754.9	29.93	760.2	10.3	—12.1	85	nw.	6	2.7	.....	0	2 s	.....	.....	0	0	clear	James Smith, M. A.
Dalhousie, N. B	29.55	750.6	29.72	754.9	18.0	— 7.8	.....	e.	.....	.....	2	.....	10 n	.....	.....	inap.	inap.	snowing	H. A. Johnson.
Father Point, Quebec*	29.51	749.5	29.53	750.0	28	— 2.2	96	s.	27	12.1	.....	.....	10 n	.....	sw.	0.01	0.3	threatening	J. McWilliams.
Fort Garry, Manitoba*	29.58	751.3	30.57	776.5	—22	—30.0	100	calm	0	0	.....	0	2 s	.....	.....	0	0	fair	James Stewart.
Fredericton, N. B	29.79	756.7	29.86	758.4	30.0	— 1.1	84	se.	7	3.1	.....	.....	10 n	.....	.....	inap.	inap.	snowing	Prof. Harrison.
Granton, Ontario	29.05	737.9	30.24	768.1	18.4	— 7.6	94	nw.	.....	.....	2	.....	10 n	.....	.....	0.30	7.6	cloudy	James Grant.
Halifax, N. S*	29.97	761.2	30.11	764.8	24	— 4.4	87	s.	4	1.8	.....	5 k	0	sw.	.....	0	0	fair	A. Allison.
Hamilton, Ontario	29.78	756.4	30.20	767.1	25.2	— 3.8	78	sw.	.....	.....	4	8 ck	0	.....	.....	0	0	fair	Geo. Dickson, B. A.
Kingston, Ontario*	29.68	753.9	30.04	763.0	21	— 6.1	70	w.	5	2.2	.....	0	2 k	.....	nw.	inap.	inap.	fair	A. P. Knight, M. A.
Little Glace Bay, N. S	30.16	766.1	30.20	767.1	23.2	— 4.9	84	sw.	.....	.....	4	2 k	0	sw.	.....	0	0	clear	C. H. Rigby.
Montreal, Quebec*	29.63	752.6	29.85	758.2	20	— 6.7	58	w.	32	14.3	.....	.....	10 s	.....	w.	0	0	cloudy	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.47	748.5	30.24	768.1	2	—16.7	72	nw.	14	6.3	.....	0	0	.....	.....	0.10	2.5	clear	Rev. R. Mosley.
Peterboro, Ontario	29.36	745.7	30.18	766.6	8.8	—12.9	78	nw.	.....	.....	2	0	0	.....	.....	0	0	clear	J. Dixon, B. A.
Port Dover, Ontario	29.50	749.3	30.25	768.3	20	— 6.7	100	nw.	13	5.8	.....	.....	10 n	.....	nw.	0.02	0.5	light snow	H. Morgan.
Port Stanley, Ontario	29.55	750.6	30.25	768.3	21	— 6.1	80	w.	24	10.7	.....	.....	8 k	.....	nw.	inap.	inap.	cloudy	M. Payne.
Quebec, Quebec*	29.16	740.7	29.49	749.0	32	0.0	100	nw.	.....	.....	6	.....	10 n	.....	w.	0.12	3.0	heavy snow	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.62	752.3	30.13	765.3	— 1	—18.3	79	nw.	0	2.7	.....	0	0	.....	.....	0.12	3.0	clear	W. H. McIntyre.
Saugeen, Ontario*	29.47	748.5	30.25	768.3	15	— 9.4	91	nw.	18	8.0	.....	.....	10 ks	.....	.....	0.20	5.1	cloudy	
St. Andrews, N. B	29.82	757.4	29.87	758.7	33	0.6	90	sw.	5	2.2	.....	.....	10 n	.....	.....	0	0	cloudy	
St. John, N. B	29.74	755.4	29.91	759.7	31.0	— 0.6	89	sw.	21	9.4	.....	.....	10 ks	.....	.....	0.025	0.6	cloudy	G. Murdock, C. E.
St. Pierre, N. F	.....	.....	30.08	764.0	24.8	— 4.0	.....	w.	.....	.....	1	.....	.....	.....	.....	0	0	.....	N. F. Land, Com't.
Stratford, Ontario	28.84	732.5	30.22	767.6	15.0	— 9.4	95	nw.	13	5.8	.....	.....	10 s	.....	.....	inap.	inap.	snowing	C. I. Macgregor, M. A.
Sydney, C. B*	30.08	764.0	30.15	765.8	11	—11.7	100	s.	3	1.3	.....	0	0	.....	.....	0.05	1.3	clear	T. C. Hill, C. E.
Toronto, Ontario*	29.80	756.9	30.22	767.0	17	— 8.3	87	nw.	15	6.7	.....	0	0	.....	.....	inap.	inap.	clear	Magnetic Observatory.
Windsor, N. S	29.93	760.2	30.03	762.7	26.0	— 3.3	88	sw.	4	1.8	.....	0	8 ks	.....	.....	0	0	fair	Prof. W. R. Butler.
Woodstock, Ontario	29.08	738.6	30.23	767.8	18.6	— 7.4	71	w.	12	5.4	.....	0	7 ks	.....	.....	0	0	cloudy	Prof. Wolverton
Yarmouth, N. S*	29.95	760.7	30.02	762.5	32	0.0	85	s.	8	3.6	.....	5 c	2 k	w.	s.	0	0	fair	Lt. F. E. Wilmot, R. N.
Sub-series.																			
St. Johns, Newfoundland	29.96	761.0	30.23	767.8	20	— 6.7	.....	w.	2	0.9	.....	0	0	.....	.....	0	0	.....	John Delany.
CAPE COLONY.																			
Cape St. Francis Lt. House	29.84	757.9	29.87	758.7	70.0	21.1	88	e.	19.5	8.7	.....	0	0	.....	.....	0	0	hazy	John Duthie.
Cape Town, C. G. H. Obs'y	29.72	754.9	29.75	755.6	95.2	35.1	26	wnw.	16	7.2	.....	0	2	.....	.....	0	0	.....	The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
CHINESE (*Sub-series*).																			
Hankow	29.82	757.4	30.10	764.5	57.6	14.2	84	nw.			3		1c			0	0		N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.97	761.3	30.00	761.9	54.0	12.2	64	se.	6.3	2.8			10			0	0	covered	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	29.88	759.0	29.93	760.2	43.9	6.6	58	sw.	20	9			2						Oversergent Fischer.
Fanöe	29.67	753.6	29.69	754.1	43.0	6.1	74	sw.			7		9						Overloerer Lauridsen.
Godthaab, Greenland	29.44	747.8	29.48	748.9	15.6	— 9.1	78	s.			2		1c						S. Kleinschmidt.
Stykkisholm, Iceland	28.48	723.4	28.52	724.5	27.7	— 2.4	89	e.			4		8						A. O. Thorlacius.
Thorshavn	28.74	730.1	28.78	731.0	41.7	5.4	65	wsw.	16	7			3						Overloerer Bergh.
Uestervig	29.49	749.0	29.58	751.3	40.3	4.6	96	s.			7		10					raining	Loearer Oesterbol.
FRENCH.																			
Agen, Normal School	29.43	747.4	30.10	764.4	42.8	6	67	w.			1		kn		nw.	0	0		M. Labroue, Director.
Alençon, Normal School	29.47	748.6	30.02	762.6	48.2	9	89	n.			2		n		s.	0	0		M. Nicot, Director.
Arras, Engineer School	29.61	752.2	29.87	758.8	50.4	10.2	64	sw.			6	10 c	0			0	0	covered	M. Klein, Commandant.
Avignon, Normal School	29.78	756.3	29.85	758.3	48.2	9	36	n.			6		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.44	747.8	30.01	762.2	46.4	8.0	43	e.			1		0			0	0	clear	M. Saillard, Director.
Beauvais, Normal School	29.50	749.4	29.77	756.1	51.6	10.9	56	sw.			2		2		wnw.	0	0	slightly cl'dy	M. Frère Eugène Mari.
Besançon, Normal School	29.01	736.8	29.94	760.5	44.8	7.1	64	n.			1		n		s.	0	0		M. Gobin, Director.
Bordeaux, Observatory	29.83	757.7	30.10	764.5	46.9	8.3	65	ssw.			1		10			0	0	covered	M. Rayet, Director.
Bourges, Normal School	29.48	748.8	30.04	763.0	50.0	10	39	w.			1				w.	0	0		M. Postel, Director.
Brest, Naval Observatory	29.75	755.6	29.99	761.8	54.3	12.4	86	w.			2		10		w.	0.079	2.0		M. de Kermaree, Dir.
Caen, Normal School	29.83	757.7	29.91	759.6	51.4	10.8	73	sw.			3		10		sw.	0	0	covered	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.60	751.9	29.93	760.1	48.7	9.3	82	s.			1		0			0	0	clear	M. Jadot, Director.
Charleville, Normal School	29.45	748.1	29.97	761.3	50.0	10	62	wsw.			1		2			0	0		M. Grimard, Director.
Clermont-Ferrand Obs'y	28 62	727.0	30.00	762.0	46.4	8.0	39	nw.			2		0			0.008	0.2	clear	M. Alluard, Director.
Cluny, Normal School	29.12	739.7	29.98	761.5	44.6	7	71	ne.			3		3		sw.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.11	739.5	29.98	761.6	46.9	8.3	49	e.			1	5 c		e.	e.	0	0	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.24	692.0	29.83	757.6	40.1	4.4	65	nw.			6	0	2 k		ne.	0	0		M. Jeangirard, Director.
Gréasque, du. Rhone	28.66	728.0	29.80	756.9	47.1	8.4	52	nnw.			1		7		nnw.	0.16	4		M. Kina, Director.
Grenoble, Normal School	29.15	740.3	29.94	760.5	37.4	3	71	nw.			3		8 kn		ne.	0	0	very cloudy	M. Ablard, Director.
Guéret, Normal School	28.44	722.4	30.06	763.4	44.6	7	71	nw.			1					0	0		M. Rivoire, Director.
Lamballe, Normal School	29.69	754.2	29.97	761.1	56.5	13.6	67	wsw.			2		8		wsw.	0.04	1.	very cloudy	M. Olliffrault, Director.
Lescar, Normal School	29.57	751.1	30.15	765.9	42.1	5.6	88	nw.			2		8			0.012	0.3	very cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	29.97	761.3	30.08	763.9	54.1	12.3	88	wsw.			2		1c		w.	0.079	2.0	covered	Lt. T. Darré, Director.
Lyon, St. Genis-Laval	28.91	734.4	30.00	761.9	43.2	6.2	44	n.			2		8 kn		nne.	0	0	¾ covered	M. André, Director.
Mans, Normal School	29.71	754.6	29.98	761.5	48.7	9.3	62	w.			3		5		w.	0	0	cloudy	M. Piboon, Director.
Marseille, Observatory	29.54	750.4	29.81	757.2	50.2	10.1	61	n.			2		9		e.	0.039	1.0		M. Stephan, Director.
Montlouis l'Instituteur	24.67	626.5	29.51	749.5	30.2	— 1.0	41	ne.	7.4	3.3			8		e.	0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.73	755.2	29.86	758.5	51.1	10.6	44	nne.			1		2			0	0	slightly cl'dy	M. Galzin, Director.
Nancy, Normal School	29.21	741.8	30.00	762.0	45.3	7.4	44	nne.			1	2 ck	0			0	0	slightly cl'dy	M. Hasse, Director
Nantes, Observatory	29.91	759.8	30.08	763.9	47.1	8.4	92	ssw.			0-2		10					rainy	M. Larocque, Director.
Perpignan, Observatory	29.82	757.5	29.93	760.3	49.6	9.8	26	nw.	33.5	15.0			9	ene.		0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.00	533.5			12.4	—10.9		e.			4-5		10		e.	2.496	63.4	snowy	Gen'l de Nansouty, Dir.
Privas, Normal School	28.85	732.7	29.95	760.6	41.0	5	69									0	0		M. Tallieu.
Puy de Dôme Obs'y, Summit	25.00	635.0			20.7	— 6.3	95	n.			3		0			0.500	12.7	clear	M. Alluard, Director.
Rochefort, Naval Obs'y	30.07	763.8	30.10	764.6	46.8	8.2	89	ssw.			1		10			0.004	0.1	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.79	756.6	30.01	762.2	43.7	6.5	94	sw.			1		10			0	0	foggy	M. Mouillot, Director.
Rodez, Normal School	27.82	706.6	30.00	762.1	42.1	5.6	35	nw.			3		1		sw.	0	0	clear	M. Serger, Director.
Rouen, Normal School	30.04	763.1	30.09	764.3	54.3	12.4	74	se.			1		10			0	0	covered	M. Platrier, Director.
Saint Maur, Observatory	29.83	757.7	30.00	761.9	51.6	10.9	43	wsw.			2		8		nnw.	0	0		M. Renou, Director.
Toulouse, Observatory	29.39	746.6	30.12	765.0	50.7	10.4	45	wnw.			3		2		n.	0	0	slightly cl'dy	M. Baillaud, Director.
Versailles, Observatory	29.49	749.1	29.98	761.6	49.6	9.8	44	sw.			2					0	0		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.72	755.0	30.02	762.4	50.7	10.4	42	sw.			2		8		nnw.	0	0		M. Marié Davy, Director
GERMAN.																			
Bamberg	29.08	738.6	29.93	760.2	41.0	5.0	70	nw.			2	0	8k;s		nw.	0	0		Prof. Dr. Hoh.
Berlin	29.79	756.6	29.97	761.2	45.5	7.5	58	e.			2		9			0	0		Prof. Dr. Arndt.
Breslau	29.48	748.7	30 01	762.2	39.0	3.9	93	ne.			2		10			0.346	8.8	light rain	Royal University Obs'y.
Carlsruhe	29.54	750.2	29.98	761.6	44.2	6.8	64	ne.			1		10		ne.	0	0		Albert Senz.
Cassel	29.18	741.1	29.89	759.2	48.2	9.0	41	s.			2		0			0.236	6.0		Dr. H. Möhl.
Frankfort on the Main	29.62	752.4	29.99	761.8	47.7	8.7	45	se.			1		3			0	0		Physical Society.
Friedrichshafen	28.49	723.7	29.93	760.3	37.4	3.0	76	ne.			4		10		ne.	0.213	5.4		Wilhelm, Chief Tel.
Hamburg	29.83	757.6	29.92	760.0	46.0	7.8	59	ssw.			4		1			0	0		E. Preller.
Kiel	29.83	757.6	29.84	758 0	45.0	7.2	54	sw.			5		1			0	0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.55	750.6	29.98	761.5	44.6	7.0	59	ene.			2		9	e.		0	0		H. Leppig, Asst.
Magdeburg	29.79	756.6	29.98	761.5	46.9	8.3	55	s.			1	0	5 k		s.	0.079	2.0		Dr. Assmann.
Memel	30.02	762.5	30.07	763.7	42.1	5.6	74	wsw.			2		10 ks						Issermann.
Munich	28.08	713.1	29.93	760 2	34.3	1.3	83	ne.			1		10		n.	0.102	2.6		Central Station
Neufahrwasser	30.01	762.2	30.02	762.6	43.0	6.1	76	ese.			1		10			0.008	0.2		A. Lothes.
Neustadt, Palatinate	29.45	747.9	29.97	761.3	45.7	7.6	51	ne.			2		6		ne.	0	0		Dicknether.
Stuttgart	28.98	736.1	29.90	759.4	41.7	5.4	66	n.			1		1c			0	0		Prof. Dr. Schoder.
Wustrow	29.91	759.6	29.93	760.2	46.2	7.9	55	ssw.			4	0	3 8			0	0		Profs. Brandes & Reimer.
GREEK.																			
Athens	29.77	756.2	30.16	766.0	69.6	20.9		s.			1.0		6			0	0	misty	Schmidt & Wourlisch.
INDIAN.																			
Bellary	28.25	717.5			94.0	34.4	27	sw.	5.3	2.4		1 ck	1			0	0	d. clouds	
Kurrachee	29.83	757.6	29.88	758.9	82.0	27.8	67	wsw.	23	10.3			6	sw.		0	0	d. clouds	
Leesa	29.27	743.5	29.73	755.1	95.8	35.4	29	w.	8.7	3.9			1	nw.		0	0	d. clouds	
Bombay	29.69	754.2	29.73	755 2	88.5	31.4	54	nnw.	18	8.0			0			0	0	blue sky	
Poona, Yarrowda	27.89	708.5	29.67	753.6	99.8	37.7	11	nnw.	11	4.9			1	w.		0	0	d. clouds	
Belgaum	27.24	691.9	29.72	754.9	86.0	30.0	56	sw.	8	3.6			2	e.		0	0	d. clouds	
Lahore	28.98	736.1	29.71	754.7	86.0	30.0	16	w.	4.6	2.1			3			0	0	blue sky	
Roorkee	28.66	727.8	29.54	750.2	85.4	29.7	9	nw.	9.0	4.0			0			0	0		
Agra	29.10	739.2	29.65	753.1	93.6	34.2	16	w.	10.4	4.6			0			0	0		
Nagpur	28.65	727.6	29.65	753.0	99.5	37.5	13	nnw.	5.5	2.5			0			0	0	blue sky	
Jubbulpore	28.36	720.3	29.67	753.6	93.7	34.3	16	nw.	3.1	1.4			0			0	0	blue sky	
Lucknow	29.23	742.5	29.60	751.8	95.0	35.0	13	wnw.	10.5	4.7			0			0	0	misty	
Allahabad	29.29	744.0	29.59	751.6	95.5	35.3	5	nw.	7.4	3.3			0			0	0	blue sky	
Patna	29.40	746.8	29.58	751.4	91.8	33.2	15	wnw.	6.5	2.9			0			0	0	blue sky	
Hazaribagh	27.61	701.4	29.56	750.7	91.8	33.2	26	w.	13.4	6.0			0			0	0	blue sky	
Cuttack	29.57	751.1	29.65	753.1	93.2	34.0	32	ssw.	1.2	0.5			1			0	0	blue sky	
Calcutta, Alipore	29.57	751.0	29.59	751.6	89.4	31.9	63	s.	7.0	3.1			0			0	0	blue sky	
Dhubri	29.50	749.3	29.62	752.4	74.3	23.5	86	ne.	5.7	2.6			0			0.63	16.0	blue sky	
Chittagong	29.64	752.7	29.73	755.0	80.7	27.1	83	sw.	7.4	3.3			6			0	0	d. clouds	
Sibsagar	29.38	746.2	29.72	754.9	70.2	21.2	93	sw.	4.3	1.9			10	w.	w.	1.10	27.9	gloomy	
Jeypore	28.31	719.0	29.72	754.8	90.9	32.7	23	nnw.	8.1	3.6			3	nnw.		0	0	d. clouds	
Zanzibar, Africa	29.74	755.4			88.6	31.4	64	e.	7.9	3.5			6		ene.	0	0	d. clouds	
Trichinopoly	29.48	748.8			97.3	36.3	26	s.	2	0.9			6			0	0	d. clouds	
ITALIAN.																			
Udine	29.36	745.8	29.77	756.2	51.3	10.7	74	ne.	4.3	1.9			1c			1.358	34.5		Prof. Giovanni Clodig.
Milan	29.23	742.5	29.75	755.6	46.9	8.3	87	w.	4.3	1.9			10	e.		0.248	6.3		Prof. Schiaparelli.
Padua	29.60	751.9	29.67	753 7	50.0	10.0	88	ene.	19.2	8.6			1c	ne.		0.890	22.6		Prof. Dott. Lorenzoni.
Moncalieri	28.85	732.7	29.76	755.9	46.4	8.0	86	sw.	3.1	1.4			10			0.189	4.8		Prof. P. F. Denza.
Genoa	29.56	750.7	29.75	755.6	46.8	8.2	78	n.	1.8	0.8			10	ne.		0.031	0.8		Prof. G. M. Garibaldi.
Mondovi	27.83	706.9	29.75	755.6	39.9	4.4	81	w.			2		10			0.126	3.2		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	OBSERVERS.
ITALIAN.—Continued.																			
Pesaro	29.67	753.5	29.71	754.7	47.8	8.8	86	n.	10.5	4.7			10			0.075	1.9		Prof. Luigi Guidi.
Florence	29.48	748.8	29.74	755.3	51.4	10.8	80	sw.			2		10			0.677	17.2		Prof. Costantino Pitter.
Leghorn	29.61	752.1	29.70	754.3	54.0	12.2	70	w.	0	0			7	n.		0.106	2.7		Prof. P. Monte.
Rome	29.58	751.2	29.75	755.6	53.2	11.8	71	wsw.	7.4	3.3			10			0.228	5.8		Prof. P. S. Ferrari.
Lecce	29.60	751.8	29.85	758.2	62.2	16.8	66	se.	42.3	18.9			10	se.		0	0		Prof. C. de Giorgi.
Cosenza	28.87	733.3	29.76	755.8	61.9	16.6	73	nw.	4.9	2.2			9	n.		0.173	4.4		Prof. D. Conti.
Cagliari	29.58	751.2	29.77	756.1	55.4	13.0	35	wnw.			2		7	w.		0.083	2.1		Prof. A. Pacinotti.
Palermo	29.55	750.6	29.80	757.0	51.6	10.9	74	nw.	15.0	6.7			10	nw.		0.039	1.0		Prof. G. Cacciatore.
Syracuse	29.72	755.0	29.77	756.2	65.5	18.6	62	wsw.	15.0	6.7			8	w.		0.039	1.0		Prof. Vincenzo Guiliano.
Sub-series.																			
Naples, S. It	29.19	741.3	29.71	754.6	56.1	13.4	86	sw.	0.7	0.3			10	sw.		0.094	2.4		Prof. T. Brioschi.
Stelvio	21.86	555.3			29.5	— 1.4	98	ne			4		10			0.083	2.1	covered	Prof. P. F. Denza.
Valdobbia	21.88	555.8			29.7	— 1.3	83	se.			2		10			0.394	10.0	covered	Prof. P. F. Denza.
JAPANESE.																			
Aomori	29.82	757.4	29.86	758.4	33.2	0.7	77	s.	8.9	4.0		0	4 s			0.113	2.9	fair	K. Ogawa.
Hakodate	29.79	756.6	29.80	756.9	33.0	0.6	72	wsw.	6.0	2.7			10			0	0	covered	
Hiroshima, I. M. Obs'y	30.02	762.5	30.04	763.0	41.9	5.5	76	wsw.	0.9	0.4		7 ck	0			0	0	cloudy	K. Sasaki.
Kanazawa	29.91	759.7	30.02	762.5	36.7	2.6	87	s.	7.5	3.3			10 n			1.080	27.4	light rain	S. Endo.
Kioto	29.87	758.7	30.05	763.3	35.9	2.2	91	w.	1.6	0.7		ck	1 s			0	0	clear	M. Tojima.
Kochi	30.05	763.3	30.07	763.8	46.1	7.8	56	w.	6.2	2.8		2 ck	0			0	0	clear	
Nagasaki, I. M. Obs'y	29.94	760.5	30.15	765.8	44.7	7.1	69	se.	0.8	0.4		2 c	0			0	0	clear	S. Takehayashi.
Niigata	29.93	760.2	29.96	761.0	36.8	2.7	93	w.	9.8	4.4		ck	10 n		w.	0.740	18.8	light rain	
Nobiru	29.90	759.4	29.92	759.9	38.1	3.4	72	wsw.	5.1	2.3		ck	2 s			0.010	0.3	fair	H. Midzushina.
Supporo					31.5	— 0.3	82	se.	6.0	2.7			10			0.120	3.0	covered	
Tokei Obs'y, Yeddo	29.88	758.9	29.95	760.7	43.1	6.2	82	sse.	4.4	2.0		0	0			0	0	clear	The Staff.
Wakayama	30.00	762.0	30.06	763.5	43.7	6.5	61	calm	0	0		0	0			inap.	inap.	clear	Y. Kuwamura.
MAURITIUS.																			
Mauritius Observatory	29.62	752.3	29.80	756.9	79.8	26.6	79	e.	9.5	4.2			10ks;n		n.	0.23	5.8	overcast	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.78	604 0	30.00	762.0	55.4	13.0	76	ne.				1	0	w.		0	0	clear	Vicente Fernandez.
Leon	24.51	622.5	30.25	768.3	56.3	13.5	85	ssw.			1	0	3		w.	0.005	0.1	foggy	Prof. M. Leal.
Mazatlan	29.83	757.7	30.10	764.4	64.5	18.1	92	nw.				10 c	n	sw		0	0	covered	F. Quijano, U. E.
Mexico, Central Obs'y	23.20	589 3	30.32	770.2	50.9	10.5	83	se.	0.2	0.1		2	1	n.		0	0	fine	M. Tena, M. D.
Morelia	24.37	619.0	30.50	774.7	60.8	16.0	63	se.			3	4	2	s.	s.	0.099	2.5	cloudy	The Staff.
Pabellon, Aguascallentes	24.07	611.4	30.13	765.4	56.3	13.5	85	calm			0		9		s.	0.09	2.3	cloudy	M. V.de Leon, M. E.
Puebla, Catholic Institute	23.44	595.3	30.26	768.5	48.2	9.0	82	calm	0	0		0	0			0	0	clear	Prof. P. Spina.
San Luis Potosi	24.30	617.2	30.32	770.1	55.6	13.1	70	e.			1		10		e.	0	0	covered	G. Barroeta, M. D.
Vera Cruz																			
Zacatecas	22.64	575.0	30.41	772.4	48.0	9.1	96	ne.	9.1	4.0		0	0			0.105	2.7		J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.85	758.2	29.85	758.2	48.2	9.0		ssw.			5					0	0		
Groningen	29.76	756.0	29.82	757.4	46.4	8.0		s.			5					c	0		
Helder	29.75	755.7	29.75	755.7	44.2	6.8		ssw.			6					0.299	7.6		
Hellevoetsluis	29.84	757.9	29.84	757.9	48.2	9.0	69	ssw.			4					0	0		
Utrecht	29.82	757.5	29.87	758.7	49.5	9.7	56	s.			5		8			0.063	1.6	very cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.06	738.2	29.13	739.8	42.8	6.0	79	sse.	29	13			10			1.079	27.4	raining	
Brono	29.19	741.5	29.23	742.5	43.2	6.2	52	ssw.	9	4			1			0.035	0.9		
Christiania	29.40	746.7	29.55	750.5	37.6	3.1	95	sse.	18	8			10			0.118	3.0	raining	
Gjæsvær	29.56	750.9	29.59	751.5	28.4	— 2.0		se.	16	7			4						
Lodingen	29.39	747.4	29.43	747.6	34.3	1.3	72	ne.			2		0			0.008	0.2		
PORTUGUESE.																			
Angra, Azores					55.8	13.2	71	calm	0	0			5			0	0		Dr. J. A. Sampaio.
Campo Major	29.17	740.8	30.17	766.4	59.2	15.1	29	nne.	4.3	1.9			7			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.11	764.8	30.20	767.0	60.6	15.9	52	n.					3			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.88	758.9	30.24	768.2	56.7	13.7	46	ne.	7.4	3.3			3	n.		0	0		The Staff.
Ponta Delgada, Azores	30.52	775.1	30.59	776.9	57.9	14.4	63	ne.	7.4	3.3			3			0	0		
Saint Paul de Loando	29.71	754.7	29.91	759.8	77.5	25.3	93	nnw.	0.7	0.3			10			blank	blank		
Serra da Estrella	25.38	644.7	30.17	766.2	45.1	7.3	38	n.	15.4	6.9			5			0	0		
RUSSIAN.																			
Akmolinski	29.24	742.7	30.41	772.4	16.5	— 8.6	79	e.	7	3			9 k			0	0		Major K. Lasarew.
Archangel	29.69	754.0	29.71	754.5	32.9	0.5	87	wnw.	4	2			3 ks			0	0		Capt. Sselliwerstow.
Astrakhan	30.62	777.7	30.54	775.6	39.7	4.3	70	e.	4	2		0	0			0	0		Capt. Wisganow.
Barnaul	30.09	764.2	30.63	777.9	27.0	— 2.8	70	calm	0	0			0			0	0		Meteorological Obs'y.
Dorpat	29.78	756.3	30.02	762.6	43.3	6.3	71	s.	7	3		0	1 k			0	0		Observatory.
Ekaterinburg	29.22	742.1	30.23	767.9	28.0	— 2.2	63	wsw.	13	6			0			0	0		Meteorological Obs'y.
Kasan	30.00	761.9	30.28	769.1	36.5	2.5	61	ssw.	9	4			2			0.004	0.1		Observatory.
Kertch	30.26	768.7	30.28	769.2	41.4	5.2	61	ene.	11	5		0	0			0	0		Lagorio & Sastyrez.
Kieff	29.52	749.8	30.17	766.2	49.3	9.6	43	sse.	13	6		cics	9 ks			0	0		Observatory.
Lugan	30.25	768.3	30.46	773.7	43.3	6.3	46	se.	18	8			2			0	0		Meteorological Obs'y
Moscow	29.56	750.9	30.05	763.3	43.9	6.6	51	s.	4	2			10 s			0.004	0.1		Meteorological Obs'y.
Nikolaiev	30.20	768.6	30.33	770.4	53.4	11.9	39	e.	13	6		0	0			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor	29.73	755.2	29.82	757.4	30.6	— 0.8	89	ne.	16	7			10			0.165	4.2	snowing	Lieut. Iwanow.
Pekin, China	29.67	753.7	29.82	757.3	52.3	11.3	37	se.	4	2		0	5 ks			0	0		Physical Observatory
St. Petersburg	29.98	761.4	29.99	761.8	37.8	3.2	78	nw.	7	3		1 ck	0			0	0		Central Physical Obs
Tashkend, Laboratory	28 73	729.7	30.33	770.4	50.4	10.2	70	nw.	13	6			4			0	0		Teich, A. M.
Tiflis	28.88	733.6	30.37	771.3	37.9	3.3	80	s.	4	2			10 n			0.008	0.2	light snow	Physical Observatory
Vladivostok	29.69	754.2	29.76	755.9	31.3	— 0.4	82	nw.	4	2		0	5 k			0	0		
Warsaw	29.56	750.9	30.00	761.9	44.1	6.7	91	calm	0	0			10 ks						Astronomical Obs'y
Wilna	29.60	751.8	30.03	762.7	43.7	6.5	88	ne.	2	1			10			0.236	6.0	heavy clouds	Berg, Assistant.
Yeniseisk	30.28	769.1	30.59	776.9	25.0	— 3.9	72	ssw.	4	2			4			0	0		M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	29.79	756.6	29.89	759.3	55.8	13.2	43	s.	2.9	1.3			1			0	0	clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.11	764 8	30.17	766.3	57.2	14.0	69	nw.	3.8	1.7			10			0.130	3.3	covered	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.18	690.3	30.22	767.5	40.4	8.0	73	n.	11.0	4.9		0	8			0	0	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27.87	707.9	30.12	765.1	53.4	11.9	40	sw.	11.2	5.0		0	2			0	0	lightly cl'dy	The Staff.
Murcia, Met. Obs'y	29.91	759.7	30.06	763.6	59.7	15.4	46	nnw.	3.8	1.7		2	3	wsw.		0	0	clouds	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.34	745.1	30.25	768.4	51.4	10.8	78	calm	0	0			10			0	0	covered	R. Gil Valkanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I	30.15	765 7	30.21	767.4	68.2	20.1	83	ese.	2.7	1.2		0	1 k		ene.	0	0	fair	Benito Vines, S. J.
Manilla, Philippine Islands	29.93	760:3	29.99	761.8	78.2	25.7	71	ese.	2.4	1.1		0	7 ck		ene.	0	0	cloudy	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.03	762.8	30.13	765.3	61.2	16.2	22	ne.	7.0	3.1		0	0			0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	30.00	761.9	30.09	764.2	74.8	23.8	77	e.	11.4	5.1		5 k	4 kn	e.	e.	0	0	cloudy	Manuel Maeu.
Tuguegarao, Philippine Id's	29.91	759.7	30.04	763.0	78.2	25.7	70	sw.	5.1	2.3			9 ks		sw.	inap.	inap.	covered	José L. Yrastorza.
SWEDISH																			
Haparanda	29.71	754.6	29.75	755.6	30.6	— 0.8	88	s.			2		10			0	0		
Umea	29.62	752.3	29.67	753.6	36.0	2.2	85	sse.			2		8			0	0		
Hernosand	29.56	750.7	29.61	752.0	35.8	2.1	77	s.			4		10			0	0		
Stockholm	29.65	753.0	29.82	757.5	41.7	5.4	55	sw.			4		8			0	0		
Wisby	29.84	758.0	29.90	759.5	42.1	5.6	61	w.			4		3			0	0		
Sub-series.																			
Upsala	29.67	753.5	29.75	755.7	41.7	5.4	57	ssw.	16.1	7.2			9		sw.	0	0		S. G. Fineman.
SWISS.																			
Geneva	28.49	723.7	29.97	761.2	37.9	3.3	64	ne.			5					0	0	covered	The Observatory

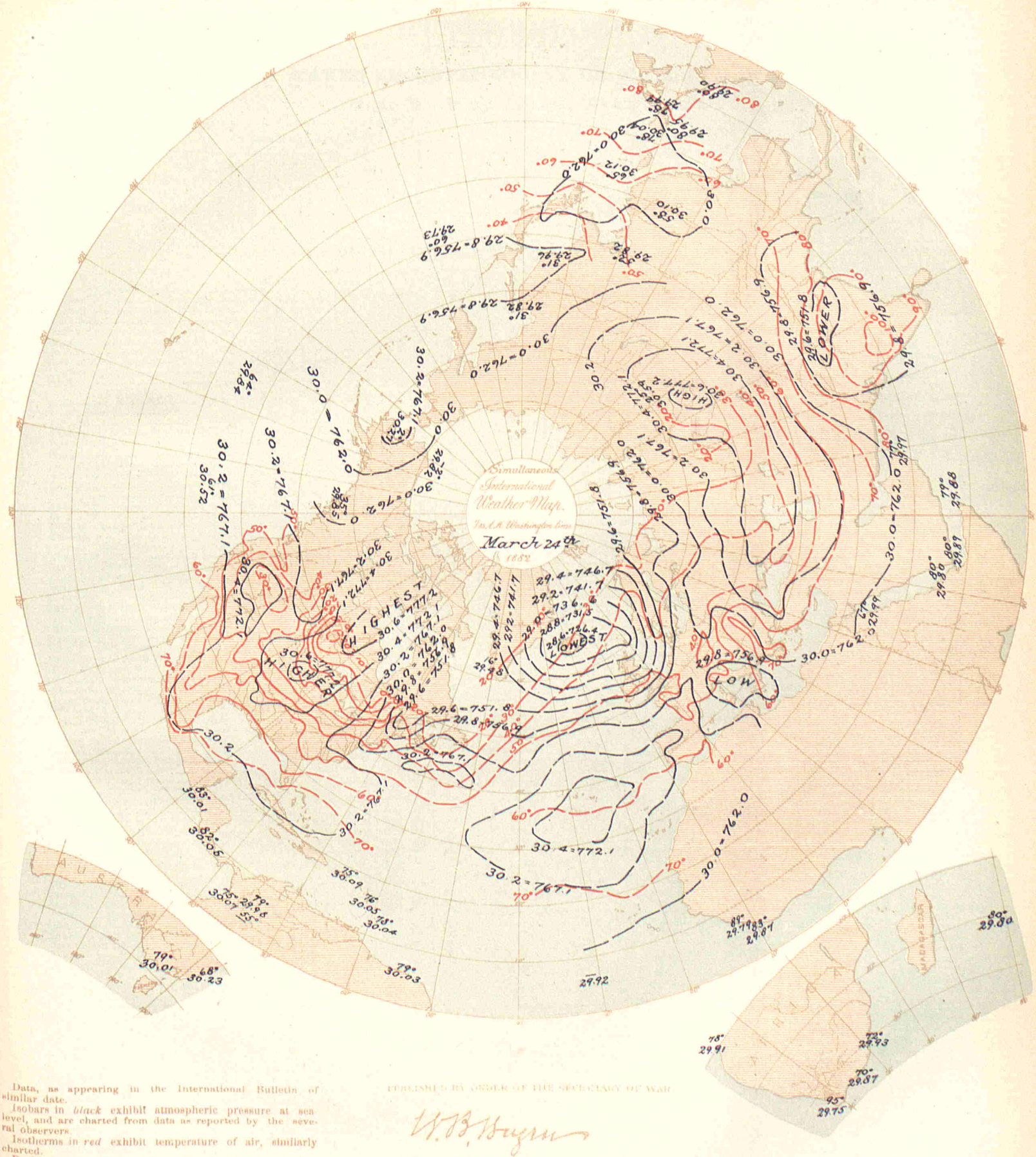
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lowe. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
TURKISH.																			
Constantinople	.....	.....	30.21	767.4	50.4	10.2	61	ese.	4	2.0	.....	.....	1	.....	ne.	0	0	.....	The Observatory.
Valona	.....	.....	29.97	761.2	73.0	22.8	.....	s.	.....	4	.....	.....	10	.....	.....	0	0	covered	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	30.05	763.3	68.9	20.5	70	sw.	.....	.....	2	0	1 ks	.....	sw.	0	0	.....	Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	29.88	758.9	29.96	761.0	37	2.8	82	w.	8	3.6	.....	.....	10 n	.....	.....	inap.	inap.	light snow	J. O. Barnes.
Alpena, Michigan	29.62	752.3	30.32	770.1	10	—12.2	80	w.	11	4.9	.....	.....	10 n	.....	.....	0.15	3.8	heavy snow	Jas. J. Fitzgerald.
Atlanta, Georgia	29.10	739.1	30.31	769.9	50.0	10.0	52	sw.	11	4.9	.....	5 k	5 s	sw.	sw.	0	0	cloudy	H. Hall.
Atlantic City, New Jersey	29.98	761.5	29.99	761.7	42	5.6	82	sw.	11	4.9	.....	4 ck	2 s	.....	.....	0	0	fair	Jas. M. Watson.
Augusta, Georgia	30.15	765.8	30.35	770.9	48.0	8.9	71	s.	2	0.9	.....	.....	10s;sk	.....	.....	0	0	cloudy	John Healy.
Baltimore, Maryland	29.98	761.5	30.03	762.7	45	7.2	60	sw.	4	1.8	.....	.....	10 s	.....	sw.	0	0	cloudy	Robert Seyboth.
Barnegat, New Jersey	29.96	761.0	29.98	761.5	41.8	5.4	82	sw.	16	7.2	.....	.....	10 s	.....	s.	0	0	cloudy	Chas. F. Merritt.
Bismarck, Dakota	28.41	721.6	30.33	770.4	9	—12.8	80	e.	8	3.6	.....	.....	10 s	.....	.....	0	0	cloudy	Cyrus Cramer.
Boise City, Idaho	27.48	698.0	30.40	772.1	28	— 2.2	88	calm	0	0	.....	3 cs	0	calm	...	0	0	fair	B. E. Light.
Boston, Massachusetts	29.70	754.4	29.86	758.4	41.0	5.0	73	sw.	18	8.0	.....	0	4 k	.....	sw.	0	0	fair	O. B. Cole.
Brownsville, Texas	30.18	766.6	30.23	767.8	65	18.3	100	ne.	4	1.8	.....	.....	10 n	.....	ne.	0.16	4.1	heavy rain	J. C. Galloway.
Buffalo, New York	29.41	747.0	30.20	767.1	20	— 6.7	76	w.	18	8.0	.....	0	4 ks	.....	w.	0.05	1.3	fair	Wm Flinn.
Burlington, Vermont	29.52	749.8	29.83	757.7	28.3	— 2.1	83	nw.	13	5.8	.....	.....	10 n	.....	nw.	inap.	inap.	light snow	G. C. Schaeffer.
Cairo, Illinois	30.03	762.7	30.45	773.4	38.8	3.8	58	n.	13	5.8	.....	0	0	.....	.....	0	0	clear	W. H. Ray.
Campo, California	27.51	698.7	30.12	765.0	38.3	3.5	58	ne.	3	1.3	.....	5 c	0	.....	.....	0	0	fair	W. H. Clendenon.
Camp Thomas, Arizona	27.36	694.9	30.14	765.5	47	8.3	71	calm	.....	.....	0	0	7 ks	.....	.....	0	0	fair	J. T. Fitzgerald.
Cape Henry, Virginia	30.12	765.0	30.14	765.5	45	7.2	60	sw.	24	10.7	.....	0	hz.	.....	.....	0	0	clear	J. E. Lanouette.
Cape May, New Jersey	29.96	761.0	29.99	761.7	52	11.1	66	sw.	28	12.5	.....	.....	10 ks	.....	sw.	0	0	cloudy	W. Bolten.
Castroville, Texas	29.51	749.5	30.34	770.6	58	14.4	75	e.	4	1.8	.....	10 cs	0	.....	.....	0	0	cloudy	T. Jones.
Cedar Keys, Florida	30.28	769.1	30.30	769.6	55	12.8	79	ne.	6	2.7	.....	4 ck	0	.....	.....	0	0	fair	F. W. Mixer.
Champaign, Illinois	29.56	750.8	30.42	772.7	24.0	— 4.4	61	n.	23	10.3	.....	0	1 s	.....	n.	0	0	clear	L. A. Welsh.
Charleston, S. Carolina	30.26	768.6	30.32	770.1	51	10.6	80	sw.	5	2.2	.....	8 ck	*fg.*	sw.	.....	0	0	cloudy	J. H. Smith.
Charlotte, N. Carolina	29.34	745.2	30.22	767.6	45.0	7.2	53	sw.	3	1.3	.....	5 cs	*fg.*	.....	.....	0	0	fair	D. O. Donoghue.
Chattanooga, Tennessee	29.45	748.0	30.30	769.6	51.0	10.6	43	sw.	8	3.6	.....	5 ck	hz.	sw.	.....	0	0	fair	B. L. Goulding.
Cheyenne, Wyoming	24.18	614.2	30.36	771.1	30.2	— 1.0	36	sw.	3	1.3	.....	0	0	.....	.....	0	0	clear	E. McGovern.
Chicago, Illinois	29.69	754.1	30.43	772.9	22.2	— 5.4	87	nw.	9	4.0	.....	1 k	0	nw.	.....	0	0	clear	J. Mitchell.
Chincoteague, Virginia	30.04	763.0	30.06	763.5	44	6.7	68	sw.	14	6.3	.....	4 c	hz.	w.	.....	0	0	fair	F. C. Pratz.
Cincinnati, Ohio	29.61	752.1	30.30	769.6	36.8	2.7	53	nw.	8	3.6	.....	.....	10 s	.....	n.	0	0	cloudy	R. B. Watkins.
Cleveland, Ohio	29.50	749.3	30.28	769.1	25.7	— 3.5	79	n.	18	8.0	.....	.....	9 s	.....	nw.	inap.	inap.	cloudy	J. B. Newlin.
Coleman City, Texas	28.52	724.4	30.37	771.4	42	5.6	100	sw.	1	0.4	.....	0	6 s	.....	.....	0	0	fair	L. Dorman.
Columbus, Ohio	29.36	745.7	30.25	768.3	34	1.1	71	nw.	13	5.8	.....	.....	10 s	.....	nw.	0	0	cloudy	D. Cuthbertson.
Concho, Texas	28.38	720.8	30.34	770.6	52	11.1	93	calm	0	0	.....	.....	10 s	.....	se.	0	0	cloudy	W. W. McConihe.
Davenport, Iowa	29.83	757.7	30.52	775.2	22	— 5.6	58	n.	8	3.6	.....	0	0	.....	.....	0	0	clear	R. R. Martin.
Dayton, Washington T'y	28.46	722.9	30.27	768.8	49.7	9.8	76	sw.	5	2.2	.....	.....	10 s	.....	w.	0	0	cloudy	H. Clifford.
Deadwood, Dakota	25.45	646.4	30.29	769.4	39.5	4.2	52	sw.	8	3.6	.....	0	0	.....	.....	inap.	inap.	clear	G. W. Scott.
Decatur, Texas	.....	.....	.....	.....	56	13.3	62	se.	2	0.9	.....	.....	10 s	.....	s.	0	0	cloudy	D. J. Carr.
Delaware Breakwater, Del.	30.00	762.0	30.02	762.5	44	6.7	68	sw.	30	13.4	.....	4 cs	1 s;hz	w.	.....	0	0	fair	A. Schneider.
Denison, Texas	29.57	751.1	30.40	772.1	50.4	10.2	86	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. McGlone.
Denver, Colorado	24.92	633.0	30.36	771.1	31.0	— 0.6	57	s.	3	1.3	.....	0	0	.....	.....	0	0	clear	F. M. Neal.
Des Moines, Iowa	29.68	753.9	30.64	778.2	15	— 9.4	67	n.	6	2.7	.....	0	0	.....	.....	0	0	clear	F. W. Conrad.
Detroit, Michigan	29.57	751.1	30.32	770.1	26.0	— 3.3	77	nw.	8	3.6	.....	0	9 k	.....	nw.	0	0	cloudy	C. F. R. Wappenhans.
Dodge City, Kansas	27.77	705.3	30.50	774.7	29	— 1.7	88	ne.	8	3.6	.....	0	5 s	.....	ne.	0	0	fair	E. A. Thomas.
Dubuque, Iowa	29.77	756.1	30.52	775.2	18.5	— 7.5	53	nw.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. Harvey Smith.
Duluth, Minnesota	29.81	757.2	30.55	776.0	— 4	—20.0	71	w.	22	9.8	.....	0	0	.....	.....	0.01	0.3	clear	N. B. Conger.
Eagle Pass, Texas	29.52	749.8	30.34	770.6	57.0	13.9	93	se.	1	0.4	.....	.....	10 s	.....	.....	0	0	cloudy	F. Belford.
Eagle Rock, Idaho	25.62	650.7	30.49	774.4	14	—10.0	70	n.	5	2.2	.....	3 cs	0	.....	.....	0	0	clear	J. M. Clifford.
Eastport, Maine	29.82	757.4	29.89	759.2	33.5	0.8	78	s.	24	10.7	.....	.....	10 s	.....	s.	0	0	cloudy	J. H. Melton.
El Paso, Texas	26.48	672.6	30.28	769.1	44	6.7	68	e.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.48	748.8	30.25	768.3	23	— 5.0	73	nw.	21	9.4	.....	.....	10 k	.....	nw.	0	0	cloudy	R. H. Paxton.
Escanaba, Michigan	29.72	754 9	30.43	772.9	8	—13.3	76	w.	4	1.8	.....	0	0	.....	.....	0	0	clear	C. Dill.
Florence, Arizona	28.54	724.9	30.11	764.8	49.9	9.9	58	calm	0	0	.....	6 k	0	s.	.....	0	0	fair	R. R. Herman.
Fort Apache, Arizona	25.20	640.1	30.22	767.6	33	0.6	74	ne.	3	1.3	.....	0	0	.....	.....	0	0	clear	W. O. Barnes.
Fort Assinnaboine, Montana	27.04	686.8	30.04	763.0	43	6.1	53	sw.	22	9.8	.....	0	9 k	.....	sw.	0	0	cloudy	B. O. Lenoir.
Fort Bennett, Dakota	28.70	729.0	30.40	772.1	24	— 4.4	76	se.	12	5.4	.....	6 k	0	se.	.....	0	0	fair	T. Gibson.
Fort Benton, Montana	27.12	688.8	30.10	764.5	52	11.1	43	sw.	22	9.8	.....	.....	10 ks	.....	sw.	0	0	cloudy	S. Wheaton.
Fort Buford, Dakota	27.99	710.9	30.13	765.3	25	— 3.9	64	e.	8	3.6	.....	.....	10 s	.....	calm	0	0	cloudy	A. H. Bell.
Fort Custer, Montana	26.87	682.5	30.20	767.1	32	0.0	62	s.	6	2.7	.....	0	3 s	.....	calm	0	0	clear	V. Verge.
Fort Davis, Texas	25.36	644.1	30.24	768.1	44	6.7	80	calm	0	0	.....	0	6 ks	.....	s.	0	0	fair	J. Williams.
Fort Elliott, Texas	27.52	699.0	30.35	770.9	42	5.6	67	nw.	4	1.8	.....	.....	*fg.*	.....	nw.	0	0	dense fog	W. J. Cundall.
Fort Gibson, Indian T'y	29.82	757.4	30.41	772.4	42.5	5.8	93	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. B. Campbell.
Fort Grant, Arizona	25.37	644.4	30.20	767.1	52	11.1	33	e.	2	0.9	.....	3 c	0	.....	.....	0	0	clear	T. J. Macgowan.
Fort Griffin, Texas	29.06	738.1	30.41	772.4	47	8.3	93	calm	0	0	.....	0	0	.....	.....	0.05	1.3	clear	G. H. Hayne.
Fort Keogh, Montana	27.49	698.2	30.14	765.5	34	1.1	65	se.	11	4.9	.....	5 c	0	.....	.....	0	0	fair	W. B. Stockman.
Fort Macon, North Carolina	30.28	769.1	30.29	769.4	54	12.2	62	w.	15	6.7	.....	9c;cs	hz.	w;c	calm	0	0	cloudy	L. Leonardy.
Fort McKavett, Texas	28.10	713.7	30.42	772.7	53.3	11.8	86	s.	3	1.3	.....	.....	10 s	.....	.....	0	0	cloudy	J. E. Thatcher.
Fort Missoula, Montana	26.84	681.7	30.22	767.6	44	6.7	76	nw.	6	2.7	.....	.....	10 s	.....	.....	0	0	cloudy	J. H. Jones.
Fort St. Michaels, Alaska	30.24	768.1	30.27	768.8	2	—16.7	100	sw	7	3.1	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	A. P. Leavitt.
Fort Shaw, Montana	26.37	669.8	30.17	766.3	46	7.8	42	w.	19	8.5	.....	8 k	0	nw.	.....	0	0	cloudy	A. L. Mathews.
Fort Sill, Indian Territory	29.13	739.9	30.42	772.7	43.8	6.6	94	calm	0	0	.....	0	0	.....	.....	0	0	clear	T. Cleary.
Fort Stevenson, Dakota	28.32	719.3	30.30	769.6	7	—13.9	79	ne.	6	2.7	.....	.....	10 s	.....	ne.	0	0	cloudy	W. Burrows.
Fort Verde, Arizona	.....	.....	.....	.....	39.3	4.1	50	w.	.....	.....	1	0	0	.....	.....	0	0	clear	D. Brooks.
Fort Washakie, Wyoming	24.64	625.8	.....	.....	22.4	— 5.3	63	n.	4	1.8	.....	0	0	.....	.....	0	0	clear	T. M. Ambler.
Fredericksburg, Texas	28.56	725.4	30.32	770.1	55	12.8	80	calm	0	0	.....	0	0	.....	.....	0	0	cloudy	H. S. Miles.
Galveston, Texas	30.32	770.1	30.36	771.1	61	16.1	71	ne.	14	6.3	.....	.....	10 s	.....	.....	0	0	cloudy	E. O'C. MacInerney.
Grand Haven, Michigan	29.69	754.1	30.39	771.9	20.5	— 6.4	76	nw.	10	4.5	.....	.....	10 s	.....	w.	0	0	cloudy	W. A. Reid.
Hatteras, North Carolina	30.25	768.3	30.27	768.8	51	10.6	66	sw.	22	9.8	.....	3 c	sk.	.....	w.	0	0	clear	R. M. Crawford.
Helena, Montana	25.84	656.3	30.21	767.3	36	2.2	64	sw.	4	1.8	.....	0	0	.....	.....	0	0	clear	N. C. Smith.
Henrietta, Texas	29.41	747.0	30.45	773.4	52	11.1	86	sw.	2	0.9	.....	0	6 s	.....	.....	0.06	1.5	fair	J. W. Byram
Huron, Dakota	29.05	737.9	30.53	775.4	18.8	— 7.3	73	se.	9	4.0	.....	.....	10 s	.....	.....	0	0	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.49	749.0	30.33	770.4	30	— 1.1	78	nw.	6	2.7	.....	0	5 ks	.....	nw.	inap.	inap.	fair	O. Schutze
Indianola, Texas	30.29	769.4	30.32	770.1	60.3	15.7	93	ne.	21	9.4	.....	.....	10 n	.....	ne.	0.04	1.0	light rain	J. A. Reed.
Jacksboro, Texas	29.18	741.2	30.39	771.9	54	12.2	74	se.	1	0.4	.....	.....	10 ks	.....	.....	0	0	cloudy	J. P. Sherry.
Jacksonville, Florida	30.28	769.1	30.33	770.4	53	11.7	80	calm	0	0	.....	5 cs	0	w.	.....	0	0	fair	J. W. Smith.
Keokuk, Iowa	29.84	757.9	30.53	775.4	20.0	— 6.7	70	nw.	6	2.7	.....	0	0	.....	.....	0	0	clear	F. Z. Goscwisch
Key West, Florida	30.23	767.8	30.25	768.3	70.0	21.1	70	ne.	7	3.1	.....	0	6 k;hz	.....	e.	0	0	fair	L. M. Melbourne.
Kittyhawk, North Carolina	30.22	767.6	30.24	768.1	45	7.2	76	w.	21	9.4	.....	7 cs;hz	0	.....	.....	0	0	fair	E. A. Beals.
Knoxville, Tennessee	29.22	742.2	30.28	769.1	45.6	7.6	49	w.	7	3.1	.....	2 ck	2 s;sk	w.	.....	0	0	fair	J. A. Cody.
La Crosse, Wisconsin	29.70	754.4	30.52	775.2	12	—11.1	80	n.	12	5.4	.....	0	0	.....	.....	0	0	clear	S. C. Emery.
La Mesilla, New Mexico	26.31	668.3	30.26	768.6	40.3	4.6	53	n.	1	0.4	.....	0	0	.....	.....	0	0	clear	N. D. Lane.
Leavenworth, Kansas	29.66	753.4	30.60	777.2	28	— 2.2	64	ne.	6	2.7	.....	1 k	0	nw.	.....	0	0	clear	A. W. Browne.
Lewiston, Idaho	29.38	746.2	30.24	768.1	55	12.8	67	s.	3	1.3	.....	.....	10 s	.....	.....	0	0	cloudy	W. Blake.
Little Rock, Arkansas	30.05	763.3	30.38	771.6	53	11.7	72	calm	0	0	.....	0	5 s	.....	calm	0	0	fair	M. F. Burrows.
Los Angeles, California	29.70	754.4	30.10	764.5	54.7	12.6	62	e.	8	3.6	.....	0	0	.....	.....	0	0	clear	E. F. Kubel.
Louisville, Kentucky	29.70	754.4	30.29	769.4	38	3.3	72	nw.	14	6.3	.....	3 c;cs	2 s	nw.	.....	0	0	fair	H. C. Smith.
Lynchburg, Virginia	29.41	747.0	30.13	765.3	47.0	8.3	48	sw.	2	0.9	.....	.....	10 s	.....	.....	0	0	cloudy	T. H. Breen.
Madison, Wisconsin	29.43	747.5	30.50	774 7	14	—10.0	64	n.	15	6.7	.....	0	0	.....	.....	0	0	clear	C. A. Shaw.
Marquette, Michigan	29.65	753.1	30.42	772.7	10	—12.2	80	nw.	12	5.4	.....	.....	10 n	.....	calm	0.08	2.0	light snow	I. Gilligan.
Mason, Texas	28.68	728.5	30.37	771.4	57	13.9	69	s.	2	0.9	.....	.....	10 s	.....	s.	0	0	cloudy	A. M. Wilson.
Memphis, Tennessee	30.00	762.0	30.35	770.9	55	12.8	77	calm	0	0	.....	hz.	hz.	.....	.....	0	0	dense haze	D. T. Flannery.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–01	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
UNITED STATES.—Cont'd.																			
Milwaukee, Wisconsin	29.66	753.4	30.45	773.4	17	— 8.3	83	n.	12	5.4		0	1 ks			0	0	clear	W. Line.
Mobile, Alabama	30.32	770.1	30.36	771.1	52.5	11.4	80	calm	0	0			10 s			0	0	cloudy	J. D. Paxton.
Montgomery, Alabama	30.09	764.3	30.33	770.4	50.5	10.3	82	se.	2	0.9		8cs;ck	3 k;fg	nw.	nw.	0	0	cloudy	J. B. McLaughlin.
Moorhead, Minnesota	29.50	749.3	30.58	776.7	—19	—28.3	100	calm	0	0		0	0			0	0	clear	H. Bessant.
Morgantown, W. Virginia	29.10	739.1	30.16	766.1	38.0	3.3	66	ne.	22	9.8			10 s		n.	0	0	cloudy	J. Sprigg, jr.
Mt. Washington, N. H.	23.23	590.0	29.75	755.6	16.0	— 8.9	90	w.	87	39.0			10n;fg		w.	0.12	3.0	light snow	J. G. Linsley.
Nashville, Tennessee	29.73	755.1	30.29	769.4	50.0	10.0	64	nw.	4	1.8		9 ck	hz.	nw.		0	0	cloudy	L. A. Jesunofsky.
New Haven, Connecticut	29.81	757.2	29.93	760.2	38.5	3.6	81	sw.	13	5.8			10 s		sw.	0	0	cloudy	J. H. Sherman.
New London, Connecticut	29.93	760.2	29.98	761.5	42	5.6	73	sw.	18	8.0		5 k	3 s	sw.	sw.	0	0	cloudy	J. G. Lynch.
New Orleans, Louisiana	30.30	769.6	30.36	771.1	60.3	15.7	72	n.	4	1.8		10 cs	0	w.		0	0	cloudy	A. J. Armstrong.
Newport, Rhode Island	29.91	759.7	29.96	761.0	39.3	4.1	91	sw.	12	5.4			10 s		sw.	0	0	cloudy	W. McGillivray.
New River, N. Carolina	...	...	...	...	45	7.2	60	w.	...	...	1	2 c	4 ks	...	...	0	0	fair	C. C. Corbin.
New Shoreham, Rhode I'd.	29.93	760.2	29.96	761.0	40.2	4.6	73	sw.	28	12.5		3 cs	4 s		sw.	0	0	fair	W. Davis.
New York, New York	29.78	756.4	29.96	761.0	38	3.3	89	sw.	9	4.0			10 s			0	0	cloudy	E. B. Garriott.
Norfolk, Virginia	30.14	765.5	30.18	766.6	46	7.8	71	sw.	9	4.0			10 s			0	0	cloudy	J. T. Elker.
North Platte, Nebraska	27 44	697.0	30.50	774.7	27.6	— 2.4	77	se.	8	3.6		0	0			0	0	clear	E. F. Brady.
Olympia, Washington T'y	30.26	768.6	30.30	769.6	49.0	9.4	86	s.	9	4.0			10 s		calm	0.07	1.8	cloudy	J. Dascomb.
Omaha, Nebraska	29.38	746.2	30.63	778.0	19.8	— 6.8	65	ne.	6	2.7		0	0			0	0	clear	A. Pollak.
Ooglaamie, Pt. Barrow, Alas.	29.80	756.9	29.82	757.4	— 2.2	—19.0	91	w.	24	10.7		0	2 s			0.03	0.8	clear	P. H. Ray.
Oswego, New York	29.70	754.4	30.04	763.0	25.3	— 3.7	71	nw.	20	8.9		0	5 k		nw.	0.04	1.0	fair	S. W. Beall.
Palestine, Texas	29.84	757.9	30.41	772.4	54.5	12.5	73	se.	5	2.2			10 ks			0	0	cloudy	L. M. Pindell.
Pensacola, Florida	30.32	770.1	30.36	771.1	53.3	11.8	76	n.	4	1.8		5 cs	5 s	nw.	w.	0	0	cloudy	M. McGauran.
Philadelphia, Pa	29.89	759.2	29.99	761.7	42	5.6	73	sw.	7	3.1			10 ks		sw.	0	0	cloudy	T. F. Townsend.
Pike's Peak, Colorado	17.87	453.9	30.46	773.7	13	—10.6	55	w.	18	8.0		0	0			0	0	clear	L. M. Dey.
Pioche, Nevada	24.30	617.2	30.44	773.2	35	1.7	53	nw.	5	2.2		0	0			0	0	clear	C. K. Kitchel.
Pittsburg, Pennsylvania	29.36	745.7	30.21	767.3	31.0	— 0.6	68	n.	14	6.3			10 s		nw	0	0	cloudy	J. H. Bryce.
Port Eads, Louisiana	30.35	770.9	30.36	771.1	60.5	15.8	80	n.	10	4.5		7 ck	0	w.		0	0	fair	H. G. Christian.
Port Huron, Michigan	29.59	751.6	30.31	769.9	16.5	— 8.6	84	nw.	11	4.9		0	8 ks		n.	0	0	cloudy	W. O. Bailey.
Portland, Maine	29.76	755.9	29.81	757.2	38.0	3.3	72	sw.	16	7.2			10 s		sw.	0	0	cloudy	D. C. Murphy.
Portland, Oregon	30.26	768.6	30.33	770 4	52.0	11.1	93	se.	4	1.8			10 s		se.	0.03	0.8	cloudy	M. L. Hearne.
Portsmouth, N. Carolina	...	...	...	...	54	12.2	74	w.	11	4.9		0	3 k		sw.	0	0	clear	F. P. Chaffee.
Prescott, Arizona	24.94	633.5	30.28	769.1	32	0.0	40	ne.	3	1.3		0	0			0	0	clear	J. Mc N. Wright.
Provincetown, Mass	29.91	759.7	29.94	760.5	37	2.8	82	s.	20	8.9			10 s		s.	0	0	cloudy	P. T. Jenkins.
Punta Rassa, Florida	30.25	768.3	30.26	768.6	61	16.1	72	ne.	9	4.0		0	hz.			0	0	clear	W. J. Evans.
Red Bluff, California	29.85	758.2	30.23	767.8	52.2	11.2	66	nw.	2	0.9		0	0			0	0	clear	J. M. Frantz.
Rio Grande City, Texas	30.08	764.0	30.32	770.1	60	15.6	93	nw.	4	1.8			10 n		calm	0.77	19.6	light rain	W. H. Taylor.
Rochester, New York	29.43	747.5	30.13	765.3	19	— 7.2	84	nw.	25	11.2			10 n		nw.	0.01	0.3	light snow	A. T. Sherwood.
Roseburg, Oregon	29.82	757.4	30.38	771.6	47.2	8.4	77	e.	1	0.4		1 k	0	nw.		0	0	clear	J. J. Nanry.
Sacramento, California	30.13	765.3	30.21	767.3	52.0	11.1	86	nw.	5	2.2		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.86	758.4	30.49	774.4	28.9	— 1.7	56	n.	13	5.8		1 c	0			0	0	clear	J. H. Webber.
St. Paul, Minnesota	29.66	753.4	30.58	776.7	3.0	—16.1	72	w.	3	1.3		0	0			0.02	0.5	clear	O. S. M. Cone.
St. Vincent, Minnesota	29.55	750.6	30.49	774.4	—24	—31.1	100	se.	3	1.3		4 cs	0		calm	0	0	clear	G. Kingsbury.
Salt Lake City, Utah	25.92	658.4	30.44	773.2	35	1.7	56	calm	0	0		0	0			0	0	fair	J. Craig.
San Antonio, Texas	29.62	752.3	30.33	770.4	56.6	13.7	80	ne.	4	1.8			10 s			0	0	clear	E. Lane.
San Diego, California	29.96	761.0	30.03	762.7	58.6	14.8	43	ne.	6	2.7		2 cs	2 s			0	0	cloudy	A. C. Dobbins.
Sandusky, Ohio	29.58	751.3	30.30	769.6	26	— 3.3	76	n.	29	13.0			10 s		n.	0.01	0.3	fair	M. H. Perry.
Sandy Hook, New Jersey	29.93	760.2	29.97	761.2	42.0	5.6	82	sw.	18	8.0		10 c	0	sw.		0	0	cloudy	B. A. Blundon.
San Francisco, California	30.14	765.5	30.21	767.3	52	11.1	86	w.	1	0.4		0	fg.			0	0	clear	N. Gorom.
Santa Fé, New Mexico	23.42	594.9	30.40	772.1	41	5.0	23	ne.	12	5.4		0	0			0	0	clear	H. N. Jones.
Savannah, Georgia	30.26	768.6	30.34	770.6	48	8.9	68	nw.	3	1.3		10 ck	fg.	sw.		0	0	cloudy	H. M. Ford.
Shreveport, Louisiana	30.16	766.1	30.40	772.1	56	13.3	62	n.	3	1.3		4 c	5 ks			0	0	cloudy	E. N. Meekins.
Silver City, New Mexico	24.42	620.3	30.20	767.1	35	1.7	53	s.	1	0.4		0	0			0	0	clear	J. B. Wallace.
Sitka, Alaska	29.78	756.4	29.85	758.2	34.5	1.4	79	nw.	15	6.7			10 s		calm	1.08	27.4	cloudy	J. J. McLean.
Smithville, North Carolina	30.27	768.8	30.31	769.9	49	9.4	86	w.	5	2.2		5 ck	sk.	w.		0	0	fair	J. C. Rickli.
Spokane Falls, Wash. Ter.	28.11	714.0	30.24	768.1	43.5	6.4	88	s.	9	4.0			10 s		sw.	0.05	1.3	cloudy	D. Moore.
Springfield, Illinois	29.77	756.1	30.49	774.4	26	— 3.3	51	n.	16	7.2		0	4 s		n.	0	0	fair	T. B. Jennings.
Springfield, Massachusetts	29.76	755.9	29.90	759.4	39.8	4.3	79	sw.	10	4.5			10 s		sw.	0	0	cloudy	T. S. Outram.
Springfield, Mo	28.98	736.1	30.54	775.7	34	1.1	78	ne.	7	3.1		0	2 s			inap.	inap.	clear	J. B. Marbury.
Stockton, Texas	27.23	691.6	30.31	769.9	42.0	5.6	100	calm	0	0		0	0			0	0	clear	J. O'Dowd.
Thatcher's Island, Mass	29.88	758.9	29.94	760.5	38.0	3.3	77	sw.	28	12.5		5 c	0	sw.		0	0	fair	G. Liebmann.
Toledo, Ohio	29.59	751.6	30.32	770.1	27	— 2.8	47	nw.	13	5.8		0	2 k		w.	0	0	clear	A. Buell.
Tucson, Arizona	27.65	702.3	30.11	764.8	63	17.2	48	se.	4	1.8		0	3 k			0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.89	759.2	30.27	768.8	53.0	11.7	69	sw.	4	1.8			10 s		w.	0.02	0.5	cloudy	R. P. Sibley.
Uvalde, Texas	29.33	745.0	30.31	769.9	59	15.0	81	calm	0	0			10 n		e.	0.02	0.5	light rain	E. C. Imlay.
Vicksburg, Mississippi	30.12	765.0	30.38	771.6	57	13.9	69	nw.	2	0.9		8 k	0	calm		0	0	cloudy	T. J. Kenan.
Visalia, California	29.83	757.7	30.21	767.3	49.3	9.6	83	se.	2	0.9		0	0			0	0	clear	J. T. Cochran.
Washington, D. C.	29.94	760.5	30.02	762.5	44	6.7	60	se.	4	1.8		7 cs	0	w.		0	0	fair	B. M. Purssell.
West Las Animas, Colorado	26.32	668.5	30.40	772.1	27.5	— 2.5	72	e.	13	5.8		0	0			0	0	clear	J. Grover.
Wickenburg, Arizona	...	...	...	...	48.3	9.1	56	calm	...	...	0	9 c	0	nw.		0	0	cloudy	H. A. Kremp.
Williamsport, Pa	29.40	746.7	30.03	762.7	37	2.8	86	n.	16	7.2			10 ks		nw.	0	0	threatening	B. F. Hough.
Wilmington, N. Carolina	30.23	767.8	30.29	769.4	45	7.2	76	w.	1	0.4			9 s; sk		w;o	0	0	cloudy	S. A. Haney.
Winnemucca, Nevada	25.90	657.8	30.40	772.1	31	— 0.6	81	ne.	3	1.3		0	0			0	0	clear	J. R. Williams.
Yankton, Dakota	29.20	741.7	30.59	777.0	20	— 6.7	70	s.	4	1.8		0	6 ks			0	0	fair	J. H. Atfield.
Yuma, Arizona	29.86	758 4	30.01	762.2	71.0	21.7	31	n.	10	4.5		0	2 s			0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.05	560.1	...	...	55.0	12 8	88	calm	0	0			10 n;s			0.95	24.1	drizzling	Joaquin Gomez.
Bridgetown, Barbados, W.I.	30.03	762.7	30.04	763.0	78	25.6	82	n.	...	...		5 k	5 ks	e.	e.	0	0	fair	J. A. Racker.
Buenaventura, U. S. C.	30.05	763.3	30.07	763.8	75	23.9	95	se.	4	1.8			10 n		se.	0.90	22.9	raining	J. I. Plume.
Guadeloupe, W. I.	29.93	760.2	29.95	760.7	76	24.4	83	e.	...	...		0	3 ks			0	0	clear	B. Bigar.
Havana, Cuba, W. I.	30.19	766.8	30.24	768.1	73	22.8	71	se.	1.2	0.5		0	2 ks		e.	inap.	inap.	fair	A. Van Caneghem.
Kingston, Jamaica, W. I.	30.10	764.5	30.11	764.8	70.3	21.3	78	n.	1	0.4		0	0			0	0	fine	Robert Johnston.
Navassa	30.14	765.5	30.22	767.6	76.5	24.7	72	ne.	9	4.0		2 ck	5 s	e.	ne.	0	0	cloudy	F. M. Everett.
Paramaribo, S. A.	30.03	762.7	30.03	762.7	79	26.1	82	e.	...	...	2	4 c	4 k	e.		0	0	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.52	749.8	29.98	761.5	79	26.1	86	calm	...	...	0	...	9 k	...	calm	inap.	inap.	cloudy	Miss Flora A. Nichols.
Rivas	...	...	...	...	...	...	96	ne.	...	...	4	0	1 k	...	ne.	inap.	inap.	clear	Robert Mason.
Santiago de Cuba, W. I.	30.13	765.3	30.16	766.1	77	25.0	65	calm	0	0		0	5 ks	...	...	0	0	fair	
York Factory, B. A.	30.72	780.3	30.78	781.8	—11.0	—23.9	76	w.	13	5.8		2 k	1 s	sw.	w.	0	0	fair	W. Wood.

STATIONS AND VESSELS.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
British Naval.																		
H. M. S. Agincourt, N. 39° 11′, E. 9° 06′	29.84	757.9	50	10.0	78	wsw.			2		7	w.						d. clouds.
H. M. S. Alert, S. 5° 41′ E. 53° 18′	29.87	758.7	86.8	30.4	73	sw.			1		4							d. clouds.
H. M. S. Alexandra, N. 38° 30′, E. 15° 29′	29.71	754.6	64	17.8	83	wnw.			3		10							misty.
H. M. S. Bacchante, Alexandria, Egypt	30.15	765.8	64	17.8	73	w.			1		4	wnw.						d. clouds.
H. M. S. Boadicea, S. 34° 11′, E. 180 20′	29.66	753.4	84	28.9	71	calm			0		0							blue sky.
H. M. S. Comus, N. 6° 55′, E. 116° 36′	29.90	759.4	80	26.7	91	ene.			2		3							d. clouds.
H. M. S. Daring, N. 15° 12′, E. 119° 42′	29.95	760.7	80	26.7		se.			3		6	e.				1	nne.	showery.
H. M. S. Diamond, S 32° 03′, E. 115° 43′	30.11	764.8	70	21.1	79	sse.			1–2		1							blue sky.
H. M. S. Dido, N. 16° 30′, W. 61° 15′	30.06	763.5	75	23.9		ne.			4–5		4	ne.						d. clouds.
H. M. S. Eclipse, S. 15° 41′, E. 45° 29′	29.72	754.9	78	25.6		nnw.			3–4		6					3	nnw.	raining.
H. M. S. Espiegle, S. 35° 00′, E. 101° 35′	30.36	771.1	60	15.6	82	e.			4		10					2	ene.	overcast.
H. M. S. Euryalus, N. 12° 38′, E. 44° 59′	29.89	759.2	80	26.7	78	e.			3		1	calm				2	ese.	blue sky.
H. M. S. Fawn, N. 15° 04′, E. 42° 14	29.80	756.9	79.5	26.4	82	ssw.			2		9	ssw.				2	s.	d. clouds.
H. M. S. Flying Fish, N. 34° 41′, E. 135° 12′	30.02	762.5	46	7.8	76	nw.			1		8	w.						misty.
H. M. S. Gannet, S. 33° 01′, W. 71° 37′	30.04	763.0	60	15.6	82	calm			0		0							blue sky.
H. M. S. Inconstant, S. 22° 30′ E. 73° 30′	29.95	760.7	79	26.1	90	ne.			2		4	nne.				4	ssw.	d. clouds.
H. M. S. Iron Duke, N. 22° 16′, E. 114° 10′	30.02	762.5	59	15.0	87	ne.			1		10	ne.						overcast.
H. M. S. Lark, S. 29° 09′, E. 167° 49′	30.20	767.1	70.3	21.3		ese.			4		2					4	se.	d. clouds.
H. M. S. Liffey, Coquimbo, Chili	30.01	762.2	60	15.6		calm			0		10							overcast.
H. M. S. Magpie, N. 26° 42′, E. 123° 48′	30.12	765.0	64.5	18.1	75	se.			3–4		10					4	se.	overcast.
H. M. S. Malabar, N. 14° 26′, E. 52° 43′	29.88	758.9	79	26.1	95	ene.			2		1	ene.				1	ene.	blue sky.
H. M. S. Orontes, N. 28° 16′, E. 33° 15′	29.99	761.7	66.5	19.2	85	wnw.			5		0					4	wnw.	blue sky.
H. M. S. Rambler, St. Paul de Loando, Benguléa	29.87	758.7	71	21.7		nw.			1		10							overcast.
H. M. S. Ready, Muscat, Arabia	29.97	761.2	77.1	25.1		wnw.			2		4							d. clouds.
H. M. S. Rocket, Vancouver Island, British Columbia	30.22	767.6	47	8.3	92	wsw.			4		7							d. clouds.
H. M. S. Sea Gull, S. 5° 56′, E. 47° 40′	29.21	741.9	84	28.9	87	nne.			1–2		2	nne.				4	nne.	d. clouds.
H. M. S. Serapis, N. 37° 10′ E. 4° 50′	30.00	762.0	48	8.9	77	wsw.			3–7		9	wnw.				6	nnw.	squally.
H. M. S. Triumph, Valparaiso, Chili	30.02	762.5	63	17.2	83	sw.			1–2		2	calm						d. clouds.
H. M. S. Woodlark, Bombay, India	29.81	757.2	87.5	30.8	52	wnw.			3–4		0							misty.
Portuguese Naval.																		
Quanza, Santiago, Cape Verd Islands	30.01	762.2	73.4	23.0	74	ne.			4		7		sw.			3	ne.	d. clouds.
Rio Lima, Porto Praya, Cape Verd Islands	30.07	763.7	77.0	25.0	87	ne.			2		2		ne.			2		d. clouds.
Tamega, Macao, China	30.04	762.9	66.6	19.2	88	ene.			1		9					1		overcast.
United States Naval.																		
Navy Yard, Pensacola, Fla	30.32	770.1	56	13.3	69	calm	0	0			10			0	0			foggy.
Naval Hospital, Portsmouth, N. H.	29.84	757.9	38	3.3	81	sw.	13	5.8			8		sw.	0	0			cloudy.
Naval Hospital, Yokohama, Japan	29.76	755.9	45	7.2	79	e.			1		0			0	0			clear.
Adams, Callao, Peru	29.76	755.9	68	20.0	95	sse.			1		5					gr'd		fair.
Alaska, S. 24° 16′, W. 71° 42′	29.99	761.7	65	18.3	78	calm			0		5			0	0	sm'h		fair.
Alert, Hong Kong, China*	29.89	759.2	63	17.2	89	ese.			3		10		calm	0	0	sm'h		overcast.
Alliance, Kingston, Jamaica	30.04	763.0	79	26.1	100	nw.			1		0			0	0	sm'h		clear.
Ashuelot, Nagasaki, Japan	30.13	765.3	58	14.4	48	n.			1		5		calm					fair.
Brooklyn, Montevideo, Uruguay	29.85	758.2	62	16.7	83	ssw.	20	8.9			8		sw.	0	0	mod.	ssw.	fair.
Colorado, New York, N. Y.	29.97	761.2	40	4.4	73	sw.	9	4.0			10		calm	0	0			cloudy.
Enterprise, N. 16° 18′ W. 66° 24′*	30.07	763.8	75	23.9	95	nne.			5		8		ne.			mod.		fair.
Essex, Monrovia Liberia, Africa	29.87	758.7	83	28.3	83	nne.			1		2		ne.			sm'h	w.	fair.
Franklin, Norfolk, Va	30.21	767.3	47	8.3	92	wsw.	14	6.3			10			0	0			cloudy.
Galena, Palermo, Sicily	29.81	757.2	56	13.3	87	nw.			3		10		nw.			sm'h		cloudy.
Independence, Mare Island, Cal	30.09	764.3	48	8.9	92	se.			1		0			0	0			clear.
Kearsage, Kingston, Jamaica, W. I	30.11	764.8	77	25.0	69	calm			0		0					sm'h		clear.
Lackawanna, S. 25° 54′, W. 73° 29′†	30.12	765.0	66	18.9	89	w.			2		8		n.			sm'h	n.	cloudy.
Lancaster, Piraeus, Greece*	30.11	764.8	68	20.0	65	ssw.			0–1		5		calm	0	0			fair.
Marion, S. 33° 54′, E. 18° 24′*†	29.79	756.7	84	28.9	46	wsw.			3		0			0	0	sm'h		clear.
Michigan, Erie, Pa	30.17	766.3	24	— 4.4	100	nw.			0		8?		nw.					clear?
Minnesota, Newport, R. I	29.94	760.5	41	5.0	82	ssw.	18	8.0			10		sw.					misty.
Monocacy, N. 34° 13′, E. 135° 01′	30.10	764.5	49	9.4	71	nw.			2		2		nw.			sm'h		fair.
New Hampshire, Newport, R. I	29.94	760.5	40	4.4	82	sw.			0		10		sw.			mod.	sw.	overcast.
Nipsic, N. 37° 54′, W. 0° 25′	30.09	764.3	57	13.9	41	n.			3		0					sm'h		clear.
Onward, Callao, Peru†	30.07	763.8	66	18.9	100	se.			2		5		n.			long	w.	fair.
Palos, Kobe, Japan	30.08	764.0	44	6.7	60	wsw.			2		10							cloudy.
Passaic, Washington, D. C	30.04	763.0	45	7.2	100	sw.			3		8		w.					fair.
Pensacola, Callao, Peru	30.00	762.0	67	19.4	95	sse.					5			0	0	sm'h		fair.
Portsmouth, Off Smith Point, Md.	30.05	763.3	46	7.8	77	sw.	2	0.9			8		s.			sm'h		fair.
Powhatan, N. 10° 42′, E. 61° 45′	30.06	763.5	80	26.7	70	ene.			5		2		ene.			sm'h		fair.
Quinnebaug, Messina, Sicily	29.71	754.6	66	18.9	68	nw.			2		2		calm			sm'h		threatening
Ranger, N. 18° 15′, W. 103° 19′*	29.97	761.2	75	23.9	86	nnw.			2		8		calm			sm'h		fair
Richmond, N. 33° 34′, W. 137° 08′*	29.98	761.5	52	11.1	86	w.			1		2		calm	0	0	sm'h		clear.
Shenandoah, St. Lucia, W. I*	30.11	764.8	73	22.8	90	e.			4		0			0	0	sm'h	w.	drizzling.
St. Louis, League Island, Pa	30.22	767.6	47	8.3	77	sw.	8	3.6	0–1		10					sm'h		fair.
Swatara, Kobe, Japan*	29.88	758.9	47	8.3	55	nw.			1		5		sw.	0	0			cloudy.
Tennessee, New Orleans, La	30.32	770.1	61	16.1	71	nnw.	9	4.0			10		w.			sm'h		overcast.
Vandalia, Key West, Florida†	30.33	770.4	70	21.1	81	ene.			2		10			inap.	inap			fair.
Wabash, Boston, Mass	29.90	759.4	41	5.0	65	sw.	12	5.4			2		e.					cloudy.
Wachusetts, Sitka, Alaska	29.76	755.9	36	2.2	100	wnw.			3		8		sw.	0	0	sm'h		fair.
Wyoming, Port Royal, S. C	30.32	770.1	49	9.4	78	nw.					8		calm					cloudy.
Yantic, Vera Cruz, Mexico*	30.15	765.8	73	22.8	85	nnw.	4	1.8			8		sw.	0	0			fair.
									3		2		nne.					

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Nova Scotian, N. 51° 12′ W. 12° 51′	29.73	755.1	54	12.2	.....	w.	.....	.....	5	.....	10	.....	wsw.	.....	.....	r'gh	wsw.	showery.
S. S. Peruvian, N 43° 10′ W. 57° 00′*	30.00	762.0	26	—3.3	.....	nw.	.....	.....	4	.....	8?	.....	nw.	0	0	sm'h	.....	clear.?
S. S. Polynesian, Boston Harbor, Mass.*	29.72	754.9	35	1.7	.....	sw.	.....	.....	4	.....	5	.....	sw.	0	0	.....	.....	fair.
S. S. Prussian, Glasgow, Scotland*	29.15	740.4	42	5.6	.....	nw.	.....	.....	3	.....	8	.....	wsw.	0	0	.....	.....	stormy.
S. S. Waldensian, Clare Island, Ireland*	29.79	756.7	48	8.9	.....	wnw.	.....	.....	4	.....	5	.....	nw.	3 h'r	3 h'r	con.	sw.	fine.
AMERICAN STEAMSHIP COMPANY.																		
S. S. British Crown, Liverpool, England†	29.88	758.9	47	8.3	.....	nne.	.....	.....	4	.....	7	.....	s.	6 h'r	6 h'r	.....	.....	raining.
S. S. Illinois, N. 50° 56′, W. 14° 52′	29.81	757.2	56	13.3	94	w.	.....	.....	6	.....	2?	.....	wnw.	.....	.....	r'gh	wnw.	overcast.?
S. S. Indiana, N. 46° 57′, W. 27° 11′†	30.29	769.4	60	15.6	76	w.	.....	.....	3	.....	10	.....	.....	hv'y	h'vy	mod.	w.	raining.
S. S. Ohio, Philadelphia, Penn.	.....	.....	40	4.4	100	sw.	.....	.....	4	.....	7	.....	sc.	.....	.....	.....	.....	fair.
ANCHOR LINE.																		
S. S. Assyria, N. 37° 40′, W. 14° 18′*†	30.45	773.4	60	15.6	.....	nne.	.....	.....	6	.....	5	.....	nne.	0	0	r'gh	une.	fine.
S. S. Devonia, N. 41° 15′ W. 62° 45′†	30.17	766.3	41	5.0	.....	s.	.....	.....	1	.....	6	.....	sw.	.....	.....	sm'h	.....	very fine.
S. S. Galatia, N. 40° 05′ W. 69° 03′†	30.09	764.3	.....	.....	.....	ssw.	.....	.....	4	.....	1	.....	s.	0	0	mod.	sw.	fair.
S. S. Utopia, N. 34° 27′, W. 51° 57′*†	30.06	763.5	59	15.0	94	wnw.	.....	.....	5	.....	1	.....	wnw.	4 h'r	4 h'r	mod.	nw.	clear.
ATLAS LINE.																		
S. S. Alsa, Savanilla, U. S. Of	29.98	761.5	77	25.0	82	ne.	.....	.....	2	.....	0	.....	.....	0	0	.....	.....	fine.
S. S. Arden, Mayaguez, Porto Rico, W. I.	.....	.....	.....	.....	.....	ssw.	.....	.....	2	.....	5	.....	.....	.....	.....	sm'h	.....	fine.
S. S. Athos, N. 18° 07′, W. 75° 03′	29.73	755.1	.....	.....	.....	ne.	.....	.....	1	.....	2	.....	e.	0	0	.....	e.	clear.
BOSTON AND HALIFAX.																		
S. S. Carroll, Boston, Mass†	30.26	768.6	.....	.....	.....	nw.	.....	.....	.....	.....	.....	.....	.....	0	0	.....	.....	clear.
BRITISH METEOROLOGICAL OFFICE.																		
S. S. Auckland, N. 34° 35′, W. 36° 10′	30.47	773.9	63	17.2	.....	se.	.....	.....	5	.....	8	.....	.....	.....	.....	.....	.....	overcast.
Baroda, S. 28° 27′, E. 81° 43′	30.09	764.3	74.5	23.6	83	ne.	.....	.....	4	.....	5	.....	.....	.....	.....	.....	.....	d. clouds.
British Merchant, N 11° 05′ E 91° 13′	29.84	757.9	83.5	28.6	77	n.	.....	.....	0–1	.....	2	.....	.....	.....	.....	.....	.....	misty.
Bk. Caldew, N. 27° 29′, W. 37° 14′	30.32	770.1	68	20.0	.....	e.	.....	.....	6	.....	3	.....	.....	.....	.....	.....	.....	d. clouds.
Bk. Commewyne, N. 32° 56′, W. 53° 19′	30.06	763.5	61.1	16.2	85	nw.	.....	.....	5	.....	10	.....	.....	.....	.....	.....	.....	drizzling.
S. S. Gordon Castle, N. 10° 21′ E. 101° 24′	29.84	757.9	82	27.8	79	sse.	.....	.....	4	.....	3	.....	.....	.....	.....	.....	.....	d. clouds.
Hope, Aracaju, Brazil, S. A	29.93	760.2	83.8	28.8	77	e.	.....	.....	3	.....	1	.....	.....	.....	.....	.....	.....	blue sky.
S. Lochee, N. 49° 07′, W. 29° 20′	30.06	763.5	53	11.7	93	sw.	.....	.....	3	.....	10	.....	.....	.....	.....	.....	.....	drizzling.
Minho, N. 48° 14′, W. 5° 45′	29.97	761.2	53.5	11.9	97	wsw.	.....	.....	5	.....	10	.....	.....	.....	.....	.....	.....	drizzling.
BRISTOL CITY LINE.																		
S. S. Brooklyn City, N. 50° 51′, W. 7° 00′*†	30.10	764.5	58	14.4	.....	w.	.....	.....	6	.....	8	.....	w.	0	0	high	w.	cloudy.
CROMWELL LINE.																		
S. S. Hudson, N. 24° 20′, W. 81° 00′*†	30.24	768.1	74	23.3	.....	e.	.....	.....	4	.....	4	.....	ene.	0	0	mod.	ene.	fair.
CUNARD LINE																		
S. S. Scythia, N. 49° 20′, W. 24° 35′†	30.01	762.2	59	15.0	94	wsw.	.....	.....	4	.....	10	.....	wsw.	0	0	mod.	wsw.	misty.
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. Canada, N. 43° 39′, W. 41° 48′	30.02	762.4	59.0	15.0	.....	s.	.....	.....	6	.....	5	.....	s.	½ h'r	½ h'r	.....	ssw.	
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Bohemia, New York, N. Y.*†	29.85	758.2	.....	.....	.....	wsw.	.....	.....	4	.....	2	.....	sw.	0	0	.....	.....	fine.
S. S. Gillert, N. 48° 00′, W. 29° 30′	30.09	764.3	52	11.1	.....	sw.	.....	.....	7	.....	10	.....	sw.	2 h'r	2 h'r	h'vy	sw.	light rain.
S. S. Lessing, Havre, France *	29.83	757.7	50	10.0	.....	wnw.	.....	.....	2	.....	5	.....	nw.	0	0	sm'h	.....	
S. S. Silesia, Hamburg, Germany*†	29.70	754.4	51.4	10.8	.....	wnw.	.....	.....	4	.....	5	.....	w.	0	0	.....	.....	fair.
JOHNSTON LINE.																		
S. S. Thanemore, N. 41° 31′, W 51° 16′	30.21	767.3	.....	.....	.....	n.	.....	.....	1	.....	5	.....	nw.	mist	mist	.....	.....	fine.
LEYLAND LINE.																		
S. S. Iberian, N. 42° 25′ W 60° 58′	.....	.....	.....	.....	.....	nnw.	.....	.....	1	.....	3	.....	nw.	0	0	light	sw.	
MALLORY LINE.																		
S. S. Colorado, N. 26° 24′, W. 86° 18′†	30.21	767.3	68	20.0	.....	ene.	.....	.....	3	.....	8	.....	ene.	0	0	high	ene.	cloudy.
MERCHANTS' EXPRESS LINE.																		
S. S. Freja, N. 47° 22′, W. 29° 35′†	30.22	767.6	58	14.4	88	sw.	.....	.....	6	.....	10	.....	sw.	6 h'r	6 h'r	mod.	sw.	
S. S. Hermod, Havre, France*†	29.58	751.3	50.0	10.0	.....	sw.	.....	.....	3	.....	3?	.....	sw.	0	0	.....	.....	cloudy ?
NATIONAL LINE.																		
S. S. Erin, New York, N. Y	.....	.....	.....	.....	.....	nw.	.....	.....	3	.....	0	.....	.....	0	0	.....	.....	
S. S. Italy, N. 43° 41′ W. 42° 00′	30.01	762.2	.....	.....	.....	s.	.....	.....	6	.....	8	.....	s.	8 h'r	8 h'r	r'gh	sw.	cloudy.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Niagara, N. 24° 37′, W. 80° 46′*†	30.38	771.6	74	23.3	.....	ne.	.....	.....	4	.....	0	.....	.....	0	0	short	ne.	clear.
NEW YORK HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, N. 38° 02′, W. 74° 37′*†	30.30	769.6	45	7.2	.....	ssw.	.....	.....	7	.....	8	.....	nw.	0	0	mod.	ssw.	hazy.
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Alvena, N. 18° 29′, W. 66° 09′*†	29.95	760.7	69	20.6	.....	se.	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	fair.
S. S. Atlas, Gonaives, Hayti, W. I.*†	30.22	767.6	77	25.0	.....	calm	.....	.....	0	.....	.....	.....	.....	.....	.....	.....	.....	clear.
S. S. Bothnia, N. 46° 40′ W. 39° 00′	29.83	757.7	56	13.3	.....	sw.	.....	.....	5	.....	.....	.....	.....	.....	.....	.....	sw.	drizzling.
S. S. City of Washington, N. 21° 20′, W. 89° 38′*†	30.25	768.3	80	26.7	.....	ne.	.....	.....	1	.....	.....	.....	.....	.....	.....	sm'h	.....	fine.
S. S. Maas N. 40° 10′ W. 59° 36′ *	30.18	766.6	46	7.8	.....	wnw.	.....	.....	1	.....	.....	.....	.....	.....	.....	high	w.	fine.
S. S. New York, N. 26° 18′ W. 80° 04′*†	30.25	768.3	70	21.1	.....	ese.	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	e.	
S. S. Olbers, S. 9° 57′ W. 34° 00′*†	30.00	762.0	84	28.9	.....	ese.	.....	.....	2–4	.....	.....	.....	.....	.....	.....	.....	ese.	fine.
NORTH GERMAN LLOYD.																		
S. S. Elbe, N. 41° 02′, W. 62° 28′	30.28	769.1	39.2	4.0	.....	s.	.....	.....	1–2	.....	.....	.....	.....	0	0	light	w.	clear.
S. S. Hermann, N. 45° 42′, W. 36° 16′*†	30.18	766.6	55.4	13.0	.....	wsw.	.....	.....	6	.....	4	.....	wsw.	2 h'r	2 h'r	h'vy	sw.	clearing.
S. S. Koln, N. 49° 17′, W. 18° 52′	30.04	763.6	60.0	15.6	94	wnw.	.....	.....	6	.....	10	.....	.....	2 h'r	2 h'r	high	wnw.	showery.
S. S. Leipzig, N. 45° 46′, W. 37° 46′	30.05	763.3	58.0	14.4	94	sw.	.....	.....	6	.....	10	.....	sw.	9 h'r	9 h'r	r'gh	sw.	fair.
S. S. Neckar, N. 49° 01′ W. 18° 44′	30.03	762.7	56.4	13.7	.....	wsw.	.....	.....	5	.....	8	.....	w.	3 h'r	3 h'r	r'gh	wsw.	clearing
S. S. Oder, N. 46° 40′, W. 35° 20′	30.06	763.5	64.6	18.1	.....	sw.	.....	.....	5	.....	5	.....	ssw.	0	0	long	sw.	hazy.
S. S. Ohio, N. 50° 15′, W. 1° 32′	29.89	759.2	.....	.....	.....	sw.	.....	.....	4	.....	10	.....	sw.	0	0	sm'h	sw.	cloudy.
S. S. Salier, N. 41° 06′, W 64° 04′.	30.25	768.3	44.6	7.0	.....	sw.	.....	.....	4	.....	2	.....	sw.	½ h'r	½ h'r	mod.	sw.	fair.
S. S. Strassburg, N. 53° 33′, E. 5° 10′	29.71	754.6	44.0	6.7	100	s.	.....	.....	6	.....	10	.....	nw.	.....	.....	sm'h	s.	drizzling.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Belgic, N. 38° 52′, E. 155° 37′†	29.73	755.1	60	15.6	70	wsw.	.....	.....	6	.....	5	.....	wsw.	0	0	high	wsw.	fair.
S. S. Gaelic, Hong Kong, China †	29.98	761.5	66	18.9	84	wsw.	.....	.....	2	.....	10	.....	sc.	.....	.....	.....	.....	overcast.
S. S. Oceanic, N. 35° 12′, W. 156° 34′ *	29.84	757.9	64	17.8	78	s.	.....	.....	6	.....	8	.....	s.	.....	.....	6	s.	overcast.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, New York, N. Y†	30.01	762 2	.....	.....	.....	wsw.	.....	.....	3	.....	4	.....	sw.	0	0	.....	.....	smoky.
S. S. Seminole, N. 41° 05′, W. 71° 30††	29.92	760.0	40	4.4	64	sw.	.....	.....	4	.....	.....	.....	w.	0	0	r'gh	sw.	hazy.
OREGON IMPROVEMENT COMPANY.																		
S. S. Mississippi, San Francisco, Cal†	30.27	768.8	50	10.0	93	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	fair.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Oregon, Portland, Oregon †	30.33	770.4	53	11.7	93	calm	.....	.....	0	.....	10	.....	.....	.....	.....	.....	.....	light rain.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, San Francisco, Cal†	30.18	766.6	50	10.0	86	calm	.....	.....	0	.....	.....	.....	.....	.....	.....	.....	.....	clear.
S. S. G. W. Elder, Victoria, B. C.†	30.18	766.6	44	6.7	.....	calm	.....	.....	0	.....	8	.....	sc.	light	light	.....	.....	cloudy.
S. S. Idaho, N. 37° 50′, W. 122° 40′†	30.12	765.0	53	11.7	86	ne.	.....	.....	3	.....	2	.....	ne.	.....	.....	light	wnw.	clear.
S. S. Orizaba, N. 33° 42′, W. 118° 14′†	30.02	762.5	60	15.6	55	nw.	.....	.....	2	.....	.....	.....	nw.	0	0	light	nw.	clear.
S. S. State of California, N. 40° 38′ W. 124° 30′†	30.33	770.4	49	9.4	100	nw.	.....	.....	4	.....	10	.....	nw.	snow	snow	short	nw.	foggy.
S. S. Victoria, San Francisco, Cal†	30.28	769.1	49	9.4	93	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	clear.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, Sydney, N. S. W.	30.23	767.8	68	20.0	90	n.	.....	.....	1	.....	0	.....	.....	0	0	.....	.....	clear.
S. S. City of New York, N. 5° 40′, W. 163° 40′.†	29.97	761.2	80	26.7	91	se.	.....	.....	3	.....	0	.....	.....	0	0	sm'h	ne.	clear.
S. S. City of Pekin, La Libertad, San Salvador†	30.01	762.2	80	26.7	78	e.	.....	.....	3	.....	.....	.....	.....	0	0	sm'h	.....	hazy.
S. S. City of Rio de Janeiro, San Blas, Mexico†	30.28	769.1	78	25.6	78	nw.	.....	.....	1	.....	2	.....	.....	0	0	long	nw.	fine.
S. S. City of Sydney, S. 34° 00′, E. 158° 35′†	30.33	770.4	71	21.7	75	ese.	.....	.....	3	.....	5	.....	ne.	0	0	mod.	ne.	cloudy.
S. S. City of Tokio, N. 36° 25′, W. 135° 52′†	30.62	777.7	61	16.1	82	n.	.....	.....	2	.....	10	.....	nnw.	2 h'r	2 h'r	light	nnw.	foggy.
S. S. Clyde, N. 23° 16′, W. 106° 32′ †	30.03	762.7	60	15.6	88	ne.	.....	.....	2	.....	8	.....	ne.	0	0	light	nw.	cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
PACIFIC MAIL STEAMSHIP COMPANY.—Continued.																		
S. S. Colon, N. 40° 00′, W. 74° 00′†	30.01	762.2	44	6.7	.....	sw.	.....	.....	3	.....	10	.....	w.	.....	.....	sm'h	.....	cloudy.
S. S. South Carolina, Punta Arenas, Costa Rica†	30.05	763.3	82	27.8	71	ne.	.....	.....	1	.....	2	.....	ne.	0	0	sm'h	.....	fine.
RED STAR LINE.																		
S. S. Nederland, N. 50° 47′, E. 0° 40′*†	30.80	782.3	55	12.8	.....	wsw.	.....	.....	2	.....	10	.....	.....	.....	.....	sm'h	wsw.	covered.
S. S. Rhynland, Jersey City, N. J	29.98	761.5	43	6.1	67	w.	.....	.....	3	.....	10	.....	w.	0	0	.....	.....	cloudy.
S. S. Switzerland, N. 47° 18′, W. 26° 57′†	30.23	767.8	.....	.....	.....	sw.	.....	.....	5	.....	10	.....	sw.	0	0	h'vy	wsw.	misty.
S. S. Vaderland, N. 40° 12′, W. 63° 17′	30.09	764.3	44	6.7	.....	w.	.....	.....	3	.....	10	.....	w.	0	0	sm'h	wnw.	cloudy.
S. S. Waesland, Antwerp, Belgium	29.90	759.4	50	10.0	.....	sw.	.....	.....	5	.....	8	.....	w.	0	0	.....	.....	fair.
ROTTERDAM LINE.																		
S. S. W. A. Scholten, N. 49° 14′, W. 18° 00′*	29.98	761.5	62.0	16.7	83	w.	.....	.....	5	.....	10	.....	.....	3 h'r	3 h'r	high	w.	rain & fog.
THINGVALLA LINE.																		
S. S. Thingvalla, Copenhagen, Denmark†	29.95	760.7	45.5	7.5	.....	ssw.	.....	.....	1	.....	2	.....	ssw.	6 h'r	6 h'r	.....	.....	clear.
WHITE STAR LINE.																		
S. S. Adriatic, N. 49° 36′ W. 21° 25′*†	30.12	765.0	52	11.1	.....	wnw.	.....	.....	5	.....	10	.....	w.	0	0	mod.	w.	overcast.
S. S. Britannic, N. 42° 09′, W. 56° 58′*†	29.98	761.5	30	—1.1	.....	wnw.	.....	.....	3	.....	8	.....	w.	0	0	sm'h	.....	d. clouds.
S. S. Celtic, New York, N. Y.†	29.89	759.2	38	3.3	80	nw.	.....	.....	3	.....	2	.....	nw.	0	0	.....	.....	fair.
S. S. Republic, N. 47° 39′, W. 33° 14′†	30.16	766.1	58	14.4	93	sw.	.....	.....	5	.....	10	.....	sw.	shr's	shr's	high	sw.	raining.
WILSON LINE.																		
S. S. Romano, Hull, Eng*†	29.48	748.8	51	10.6	.....	w.	.....	.....	6	.....	10	.....	.....	rain	rain	.....	.....	overcast.
S. S. Salerno, N. 44° 15′, W. 41° 42′†	29.98	761.5	55	12.8	.....	wsw.	.....	.....	3	.....	10	.....	w.	.....	.....	con.	var.	heavy rain.
WINSOR LINE.																		
S. S. Catherine Whiting, Providence, R. I.†	30.03	762.7	.....	.....	.....	sw.	.....	.....	7	.....	.....	.....	w.	.....	.....	.....	.....	
MISCELLANEOUS.																		
Schr. Addie Fuller, Cedar Keys, Florida†	30.39	771.9	56.5	13.6	87	e.	.....	.....	2	3 ck	hz.	w.	.....	0	0	.....	.....	clear.
Bk. Adelaide, Rio de Janeiro, Brazil*†	29.90	759.4	81	27.2	.....	n.	.....	.....	.....	.....	.....	.....	nne.	0	0	.....	.....	clear.
Bk. Aureola, N. 39° 44′ W. 70° 35′*†	30.30	769.6	44	6.7	.....	ssw.	.....	.....	5	.....	3	.....	s.	0	0	mod.	ssw.	hazy.
Schr Annie M. Smull, S. 29° 46′. W. 27° 24′*†	30.00	762.0	76	24.4	.....	ene.	.....	.....	.....	.....	5?	.....	ene.	0	0	.....	sw.	clear.?
Bk. Bergenseren, N. 34° 45′, W. 26° 37′†	30.54	775.7	.....	.....	.....	ene.	.....	.....	3	.....	.....	.....	ene.	0	0	2	ene.	overcast.
Bk. Celestina, N. 6° 13′ W. 32° 13′*†	29.92	760.0	.....	.....	.....	ene.	.....	.....	3	.....	4	.....	ene.	0	0	r'gh	ne.	hazy..
S. S Compton, Havana, Cuba, W. I†	30.09	764.3	.....	.....	.....	calm	.....	.....	0	.....	1	.....	calm	0	0	.....	.....	clear.
Bk. E. L. Pettingill, S. 14° 20′ W. 104° 06′†	30.10	764.5	.....	.....	.....	ene.	.....	.....	2	.....	1	.....	ene.	0	0	sm'h	.....	
Ship Festina Lente, N. 61° 03′, E. 0° 08′*	28.79	731.3	.....	.....	.....	ssw.	.....	.....	8	.....	10	.....	wsw.	6 h'r	6 h'r	cross	nnw.	light rain.
U.S. F.C.S. Fish Hawk, Washington, D. C.†	30.15	765.8	50	10.0	65	sw.	.....	.....	4	.....	8	.....	sw.	0	0	.....	.....	cloudy.
Bk. Freya, Baltimore, Md.	.....	.....	38	3.3	.....	w.	.....	.....	2	.....	10	.....	n.	0	0	.....	.....	hazy.
S. Grecian, S. 4° 12′, W. 30° 58′*†	29.96	761.0	82	27.8	.....	se.	.....	.....	3	.....	1	.....	se.	0	0	sm'h	e.	clear.
Bk. Geo. Booth, S. 33° 23′, E. 16° 26′*†	29.70	754.4	.....	.....	.....	ssw.	.....	.....	1	.....	0	.....	.....	0	0	long	s.	
Bk. Granville, S. 27° 44′, W. 25° 13′*†	30.20	767.1	.....	.....	.....	ne.	.....	.....	3	.....	.....	.....	ne.	0	0	long	sw.	cloudy.
S. Hedwig, N. 60° 05′, W. 3° 36′	28.84	732.4	44.2	6.8	83	wnw.	.....	.....	7	.....	7	.....	wnw.	4 h'r	4 h'r	7	wnw.	stormy.
Schr. Henry Denison, N. 11° 00′ W. 60° 36′†	29.94	760.5	.....	.....	.....	ne	.....	.....	3	.....	2	.....	ne.	0	0	light	ne.	fair.
Bk. Johanne Auguste, S 3° 07′. E. 89° 21′*	29.08	753.9	.....	.....	.....	calm.	.....	.....	0	.....	0	.....	.....	0	0	long	s.	clear.
Bg John Wesley, N. 26° 37′, W. 76° 41′†	30.22	767.6	74	23.3	.....	s.	.....	.....	1	.....	1	.....	w.	0	0	sm'h	w.	clear.
Bkt. Josephine, N. 18° 02′, W. 75° 27′*†	30.21	767.3	80	26.7	62	ne.	.....	.....	6	.....	0	.....	.....	0	0	rg'h	ne.	clear.
Bk. Liberia, N. 37° 49′, W. 67° 20′*	30.14	765 5	.....	.....	.....	nw.	.....	.....	6	.....	8	.....	nw.	6 h'r	6 h'r	.....	.....	gloomy.
Schr. Maggie Abbott, N. 29° —′, W. 75° —′*†	30.28	769.1	.....	.....	.....	ne.	.....	.....	3	.....	.....	.....	n.	0	0	long	n.	cloudy.
S. S. Nebo, N. 20° 09′, W. 54° 10′*†	29.85	758.2	.....	.....	.....	ene.	.....	.....	2	.....	2	.....	ene.	0	0	sm'h	.....	clear.
Bk. Peppina, N. 36° 45′, W. 2° 06′†	30.06	763.5	59	15.0	59	sw.	.....	.....	2	.....	0	.....	.....	.....	.....	sm'h	.....	clear.
Bk. Pilgrim, S. 42° 40′, E. 107° 25′*†	30.25	768.3	.....	.....	.....	s.	.....	.....	3	.....	.....	.....	sw.	0	0	cross	s.to w	cloudy.
Bg. Potomac, N. 33° 48′, W. 71° 40′*†	30.25	768.3	.....	.....	.....	sw.	.....	.....	3	.....	.....	.....	se.	.....	.....	mod.	nnw.	cloudy.
Bkt. Spotless, N. 30° 19′, W. 42° 25′*†	30.00	762.0	.....	.....	.....	sse.	.....	.....	.....	.....	.....	.....	sse.	.....	.....	mod.	se.	clear.
Bk. Stella, S. 58° 35′, W. 66° 48′*	29.29	744.0	41.4	5.2	94	wsw.	.....	.....	3	.....	5	.....	sw.	0	0	rg'h	w.	d clouds.
S. S. Victoria J Peed, N. 32° 29, W. 73° 58′	.....	.....	.....	.....	.....	sw.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Bg. Wauburn, S. 12° 18′, W. 21° 33′*†	30.10	764.5	.....	.....	.....	ese.	.....	.....	5	.....	3	.....	ene.	.....	.....	sm'h	.....	
S. Wm. Woodbury, N. 53° 40′, E. 3° 28′*†	29.80	756.9	51	10.6	79	sw.	.....	.....	4	.....	.....	.....	w.	.....	.....	mod.	w.	cloudy.



Data, as appearing in the International Bulletin of similar date.

Isobars in *black* exhibit atmospheric pressure at sea level, and are charted from data as reported by the several observers.

Isotherms in *red* exhibit temperature of air, similarly charted.

Broken or dotted lines indicate that the lines so broken are doubtful.

Arrows, when charted, fly with the wind and exhibit wind-direction and force.

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W. B. Hazen

Brig. & Bvt. Maj. Gen'l.
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INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON MARCH 25, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
ALGERIAN.																			
Nemours	.....	.....	30.06	763.6	63.7	17.6	84	w.	.....	.....	2	.....	0	.....	.....	0	0	clear	Moiroud.
Algiers	.....	.....	30.08	764.0	60.1	15.6	66	nw.	.....	.....	1	.....	0	.....	.....	0	0	clear	Nicolas.
La Calle	.....	.....	30.05	763.2	57.6	14.2	67	w.	.....	.....	6	.....	4	.....	.....	0	0	cloudy	Fonfréde.
Tunis	.....	.....	29.96	760.9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.15	765.7	56.3	13.5	48	n.	.....	.....	1	.....	0	.....	.....	0	0	clear	Dumas.
Tebessa	.....	.....	30.13	765.4	39.9	4.4	50	nw.	.....	.....	2	.....	2	.....	.....	0	0	fair	Derché.
Geriville	.....	.....	.....	.....	60.1	15.6	19	sw.	.....	.....	1	.....	1	.....	.....	0	0	very fair	Lonchamp.
Laghouat	.....	.....	30.20	767.0	55.4	13.0	62	w.	.....	.....	1	.....	0	.....	.....	0	0	clear	Herbin.
Biskra	.....	.....	30.15	765.8	68.7	20.4	20	nw.	.....	.....	5	.....	3	.....	.....	0	0	pretty fair	Malau.
AUSTRALIAN.																			
Melbourne, Victoria	30.22	767.6	30.31	769.9	60.8	16.0	77	se.	8	3.6	.....	.....	10	.....	.....	0.02	0.5	dull	R. L. J. Ellery.
AUSTRO-HUNGARIAN.																			
Agram	29.04	737.7	29.59	751.6	50.0	10.0	84	se.	.....	.....	2	.....	10	.....	.....	0.402	10.2	raining	Prof. Ivan Stozir.
Cracow, I. R Observatory	28.78	731.1	29.55	750.5	49.6	9.8	74	w.	8.1	3.6	.....	.....	10	.....	.....	0.374	9.5	.....	Dr. Wierzbiski.
Eperies	28.68	728.4	29.53	750.0	62.2	16.8	46	s.	.....	.....	4	.....	10 8	.....	n.	0	0	.....	Julius Mikolik.
Gratz	28.36	720.4	29.01	752.0	50.0	10.0	85	s.	.....	.....	1	.....	10	.....	.....	0	0	.....	Andreas Rospini.
Hermannstadt	28.19	716.1	29.58	751.3	61.0	16.1	36	sse.	.....	.....	6	.....	10	.....	.....	0	0	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.32	719.2	29.66	753.4	46.4	8.0	53	w.	.....	.....	2	.....	10	.....	.....	0.126	3.2	gloomy	The Staff.
Lemberg	28.62	727.0	29.58	751.3	61.3	16.3	54	s.	.....	.....	2	.....	10	.....	.....	0.535	13.6	.....	Dr. T. Stanecki.
Pola	29.54	750.2	29.65	753.1	52.0	11.0	95	s.	.....	.....	1	.....	10	.....	.....	0.850	21.6	.....	I. R. Hydrographic Office.
Szathmar	29.08	738.7	29.54	750.2	69.3	20.7	29	se.	.....	.....	3	.....	7	.....	.....	0.339	8.6	.....	Joseph Midlinszky, S. J.
Szegedin	29.25	742.9	29.52	749.7	65.5	18.6	47	s.	.....	.....	5	.....	10	.....	.....	0	0	.....	Karl Stancel.
Trieste	29.54	750.4	29.65	753.0	51.4	10.8	83	e.	.....	.....	1	.....	10	.....	.....	0.248	6.3	.....	Rieder.
Vienna	28.92	734.6	29.64	752.9	46.4	8.0	52	w.	.....	.....	4	.....	9	.....	.....	0.031	0.8	.....	I. R. Central Met. Obs'y.
BRITISH.																			
Aberdeen	29.22	742.2	29.32	744.7	44.0	6.7	39	w.	23	10.3	.....	.....	2	.....	.....	0	0	blue sky	W. Boswell.
Armagh, Observatory	29.36	745.7	29.60	751.8	45.0	7.2	85	w.	16	7.2	.....	.....	10	.....	.....	.....	.....	overcast	S. Call.
Bidston, Liverpool Obs'y	.....	.....	29.63	752.6	47.8	8.8	71	w.	27	12.1	.....	.....	9	.....	.....	.....	.....	overcast	John Hartnup.
Bolton, Sharples	29.07	738.4	29.60	751.8	42.9	6.1	83	w.	24	10.7	.....	.....	10	.....	.....	.....	.....	raining	Thomas Mackereth. [A.S.
Bradford, Yorkshire	29.17	740.9	29.57	751.1	42.7	5.9	60	sw.	.....	.....	4	.....	6	.....	.....	0.62	15.7	raining	J. McLandsborough, F. R
Bridgetown, Barbadoes	29.98	761.5	30.01	762.2	83.0	28.3	63	ne.	.....	.....	3	.....	2	.....	.....	.....	.....	d. clouds	Pvt. J. Surgenor, A. H.C.
Cardington	.....	.....	29.68	753.9	51.0	10.6	59	nw.	.....	.....	4.0	.....	1	.....	.....	.....	.....	blue sky	John McLaren.
Chatham, School M. E.	29.62	752.3	29.76	755.9	52.1	11.2	53	s	.....	.....	2	.....	7	.....	.....	blank	blank	d. clouds	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	29.66	753.4	29.89	759.2	50.9	10.5	75	wsw.	.....	.....	3	.....	10	.....	.....	.....	.....	overcast	The Staff.
Fort Napier, Natal	27.56	700.0	29.78	756.4	84.0	28.9	37	e.	.....	.....	1	.....	0	.....	.....	.....	.....	blue sky	Pvt. E. K. Annis, A. H.C.
Free Town, Sierra Leone	29.65	753.1	29.89	759.2	80.0	26.7	91	w.	.....	.....	1	.....	3	.....	.....	.....	.....	d. clouds	Sergt. John Robinson.
Galway, Queen's College	.....	.....	29.54	750.3	.....	.....	.....	wsw.	.....	.....	2	.....	10	.....	.....	.....	.....	overcast	J. O'Donaghue.
Gibraltar, Mediterranean	30.06	763.5	30.11	764.8	64.5	18.1	76	ne.	.....	.....	3	.....	0	.....	.....	.....	.....	blue sky	Cpl. O. Baldwin.
Glasgow, Observatory	29.25	742.9	29.45	748.0	43.2	6.2	58	w.	.....	.....	8	.....	8	.....	.....	.....	.....	d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.58	751.3	29.75	755.6	50.0	10.0	71	w.	.....	.....	4	.....	6	.....	.....	.....	.....	d. clouds	The Staff.
Guernsey	29.62	752.3	29.91	759.7	52.0	11.1	93	wnw.	.....	.....	2	.....	9	.....	.....	.....	.....	d. clouds	A. Collenette, F. M. S.
Kew, Observatory	29.73	755.1	29.76	755.9	50.5	10.3	45	wnw.	26	11.6	.....	.....	6	.....	.....	.....	.....	d. clouds	The Staff.
Leicester, Museum	29.41	747.0	29.66	753.4	50.0	10.0	50	nw.	.....	.....	5	.....	8	.....	.....	.....	.....	overcast	J. O. Smith.
Malta, Mediterranean	29.90	759.4	29.98	761.5	59.0	15.0	64	w	.....	.....	2	.....	8	.....	.....	.....	.....	overcast	I. H. Whysall.
Nassau, Bahamas	30.21	767.3	30.26	768.6	74.0	23.3	63	ne.	.....	.....	1	.....	1	.....	.....	.....	.....	blue sky	C. S. Duncombe.
Oscott, St. Mary's College	29.17	740.9	29.69	754.1	51.0	10.6	58	wsw.	.....	.....	4	.....	5	.....	.....	.....	.....	squally	John Mac Email.
Oxford, Radcliffe Obs'y	29.52	749.8	29.74	755.4	50.5	10.3	53	wsw.	.....	.....	6	.....	5	.....	.....	.....	.....	squally	The Staff.
Plymouth	29.79	756.7	29.86	758.4	51.9	11.1	72	wsw.	.....	.....	3	.....	10	.....	.....	.....	.....	overcast	John Merrifield.
Sandwick Manse, Orkneys	.....	.....	29.17	740.9	42	5.6	83	w.	35	15.6	.....	.....	1	.....	.....	.....	.....	showery	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.87	758.7	29.93	760.2	54.8	12.7	69	sw.	.....	.....	1	.....	6	.....	.....	.....	.....	d. clouds	W. H. Lyne.
Sheffield	29.34	745.2	29.62	752.3	48.1	8.9	77	wsw.	.....	.....	3	.....	9	.....	.....	0	0	overcast	W. F. Cooper.
Silloth Rectory	29.49	749.0	29.52	749 8	46.3	7.9	71	nw.	.....	.....	4	.....	5	.....	.....	0.095	2.4	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	29.60	751.8	43.4	6.3	79	w.	28	12.5	.....	.....	10	.....	.....	.....	.....	squally	R. S. J. Perry.
Stratfield Turgiss	29.58	751.3	29.80	756.9	51.7	10.9	56	w.	.....	.....	3-4	.....	5	.....	.....	.....	.....	squally	Rev. O.H. Griffiths, F.M.S.
Truro, Royal Institution	29.76	755.9	29.81	757.2	53	11.7	86	sw.	.....	.....	4	.....	10	.....	.....	.....	.....	raining	W. Newcombe.
Valencia, Observatory	29.72	754.9	29.74	755.4	48.7	9.3	91	wsw.	11	4.9	.....	.....	10	.....	.....	blank	blank	misty	The Met'g'l Office.
CANADIAN.																			
Bathurst, N. B	.....	.....	.....	.....	15.0	— 9.4	.....	nw	3	1.3	.....	1 cs	0	.....	.....	0	0	clear	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.98	761.5	30.03	762.7	10	—12.2	72	w.	6	2.7	.....	0	0	.....	.....	0.040	1.0	clear	H. J. Cundall, C. E.
Chatham, N. B*	29.95	760.7	30.02	762.5	4	—15.6	87	sw.	4	1.8	.....	0	0	.....	.....	0.08	2.0	clear	G. A. Blair.
Cornwall, Ontario	30.17	766.3	30.38	771.6	4.3	—15.4	95	nw.	.....	.....	1	0	0	.....	.....	0	0	clear	James Smith, M. A.
Dalhousie, N. B	29.73	755.1	29.91	759 7	4.0	—15.6	.....	w.	.....	.....	4	.....	10 n	.....	.....	0	0	cloudy	H. A. Johnson.
Father Point, Quebec*	29.99	761.7	30.02	762.5	7	—13.9	83	w.	40	17.9	.....	0	8 k	.....	w.	0.10	2.5	clearing	J. McWilliams.
Fort Garry, Manitoba*	28.90	734.0	29.79	756.7	12	—11.1	100	e.	3	1.3	.....	.....	1c n	.....	.....	0.510	13.0	cloudy	James Stewart.
Fredericton, N. B	30.05	763.3	30.12	765.0	9.1	—12.7	76	w.	11	4.9	.....	0	0	.....	.....	0.180	4.6	clear	Prof. Harrison.
Granton, Ontario	29.22	742.2	30.43	772.9	13.5	—10.3	91	calm	.....	.....	0	0	0	.....	.....	0	0	clear	James Grant.
Halifax, N. S*	29.96	761.0	30.10	764.5	15	— 9.4	76	w.	7	3.1	.....	5 c	0	w.	.....	0.092	2.3	fair	A. Allison.
Hamilton, Ontario	29.95	760.7	30.37	771.4	23.2	— 4.9	71	sw.	.....	.....	2	5 ck	0	.....	.....	0	0	fair	Geo. Dickson, B. A.
Kingston, Ontario*	30.06	763.5	30.43	772.9	11	—11.7	73	nw.	3	1.3	.....	0	0	.....	.....	0	0	clear	A. P. Knight, M. A.
Little Glace Bay, N. S	29.95	760.7	29.90	759.4	22.0	— 5.6	83	sw.	.....	.....	2	.....	10 n	.....	.....	0.18	4.6	cloudy	O. H. Rigby.
Montreal, Quebec*	30.14	765.5	30.37	771.4	6	—14.4	63	w.	13	5.8	.....	0	0	.....	.....	0	0	clear	O. H. McLeod, C. E.
Parry Sound, Ontario*	29.65	753.1	30.45	773.4	—10	—23.3	52	calm	0	0	.....	0	0	.....	.....	0	0	clear	Rev. R. Mosley.
Peterboro, Ontario	29.62	752.3	30.44	773.2	15.6	— 9.1	82	calm	.....	.....	0	0	6 ks	.....	.....	0	0	fair	J. Dixon, B. A.
Port Dover, Ontario	29.66	753.4	30.41	772.4	19	— 7.2	99	calm	0	0	.....	5 k	0	w.	.....	0.01	0.3	fair	H. Morgan.
Port Stanley, Ontario	29.69	754.1	30.38	771.6	19	— 7.2	87	nw.	10	4.5	.....	2 ck	0	nw	.....	0	0	clear	M. Payne.
Quebec, Quebec*	29.88	758.9	30.24	768.1	2	—16.7	68	w.	.....	.....	5	0	0	.....	.....	0.10	2.5	clear	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.91	759.7	30.45	773.4	—14	—25.6	77	calm	0	0	.....	0	0	.....	.....	0	0	clear	W. H. McIntyre.
Saugeen, Ontario*	29.60	751.8	30.38	771.6	16	— 8.9	91	se.	6	2.7	.....	.....	10 ks	.....	.....	0.05	1.3	cloudy	
St. Andrews, N. B	30.08	764.0	30.14	765.5	11	—11.7	88	nw.	10	4.5	.....	0	0	.....	.....	0.05	1.3	clear	
St. John, N. B	29.95	760.7	30.13	765.3	11.0	—11.7	100	nw	8	3.6	.....	0	0	.....	.....	0.170	4.3	clear	G. Murdock, C. E.
St. Pierre, N. F	.....	.....	29.87	758.7	37.4	3.0	.....	sw.	.....	.....	5	.....	.....	.....	.....	0.08	2.0	.....	N. F. Land, Com't.
Stratford, Ontario	29.01	736.8	30.40	772.1	18.5	— 7.5	84	calm	0	c	.....	0	0	.....	.....	0.050	1.3	clear	C. I. Macgregor, M. A.
Sydney, C. B*	29.91	759.7	29.98	761.5	21	— 6.1	80	w.	13	5.8	.....	10 cs	0	.....	.....	0.20	5.1	cloudy	T. C. Hill, C. E.
Toronto, Ontario*	30.02	762.5	30.43	772.9	21	— 6.1	76	calm	0	0	.....	.....	10 ks	.....	.....	0	0	cloudy	Magnetic Observatory.
Windsor, N. S	29.97	761.2	30.07	763.8	15.0	— 9.4	91	w.	6	2.7	.....	0	1 ks	.....	w.	0.03	0.8	clear	Prof. W. R. Butler.
Woodstock, Ontario	29.23	742.4	30.38	771.6	20.6	— 6.3	73	sw.	2	0.9	.....	3 c	2 k	w.	.....	0	0	fair	Prof. Wolverton
Yarmouth, N. S*	30.05	763.3	30.12	765.0	19	— 7.2	70	nw.	9	4.0	.....	0	5 k	.....	nw.	0.19	4.8	fair	Lt. F. E. Wilmot, R. N.
Sub-series.																			
St. Johns, Newfoundland	29.97	761.2	30.23	767.8	30	— 1.1	.....	s.	5	2.2	.....	5 k	5 s	.....	.....	0	0	fair	John Delany.
CAPE COLONY.																			
Cape St. Francis Lt. House	29.72	754.9	29.75	755.6	71.0	21.7	83	w.	8.8	3.9	.....	0	£ s	.....	.....	0	0	hazy	John Duthie.
Cape Town, C. G. H. Obs'y	29.79	756.7	29.83	757.7	74.2	23.4	62	wnw.	16	7.2	.....	0	4	.....	.....	0	0	.....	The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind.		Clouds. Direction.		Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
												Upper.	Lower.	Upper.	Lower.				
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
CHINESE (*Sub-series*).																			
Hankow	30.23	767.8	30.51	774.9	51.3	10.7	66	n.	2	0.9	.....	.....	10	.....	.....	0.31	7.9	.....	N. Titoushkin.
Zi-Ka-Wei, near Shanghai	30.17	766.2	30.19	766.8	46.9	8.3	71	nnw.	4.3	1.9	.....	.....	10	.....	.....	0.024	0.6	covered	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	29.28	743.8	29.33	745.0	46.0	7.8	62	nw.	20	9	.....	.....	7	.....	.....	.....	.....	.....	Oversergent Fischer.
Fanöe	29.34	745.2	29.36	745.7	42.8	6.0	81	W.	.....	.....	4	.....	5	.....	.....	.....	.....	.....	Overloerer Lauridsen.
Godthaab, Greenland	29.59	751.6	29.63	752.7	15.1	— 9.4	.....	s.	.....	.....	2	.....	10	.....	.....	.....	.....	snowing	S. Kleinschmidt.
Stykkisholm, Iceland	28.99	736.3	29.03	737.4	20.5	— 6.4	93	e.	.....	.....	4	.....	0	.....	.....	.....	.....	.....	A. O. Thoriacius.
Thorshavn	28.97	735.7	29.00	736.6	38.5	3.6	72	n.	18	8	.....	.....	5	.....	.....	.....	.....	.....	Overloerer Bergh.
Westervig	29.17	740.8	29.26	743.1	41.0	5.0	86	W.	.....	.....	6	.....	7	.....	.....	.....	.....	.....	Loerarer Oesterbol.
FRENCH.																			
Agen, Normal School	29.43	747.5	30.07	763.7	54.7	12.6	76	nw.	.....	.....	2	.....	kn;n	.....	W.	0	0	.....	M. Labroue, Director.
Alençon, Normal School	29.40	746.8	29.95	760.8	50.4	10.2	80	s.	.....	.....	1	.....	n	.....	n.	0	0	.....	M. Nicot, Director.
Arras, Engineer School	29.73	755.2	29.99	761.8	49.5	9.7	64	nw.	.....	.....	4	.....	0	.....	.....	0	0	clear	M. Klein, Commandant.
Avignon, Normal School	29.76	756.0	29.84	758.0	53.6	12	33	n.	..	.....	3	.....	0	.....	.....	0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.32	744.6	29.87	758.7	52.9	11.6	54	W.	.....	.....	1	.....	6	.....	nnw.	0	0	cloudy	M. Saillard, Director.
Beauvais, Normal School	29.61	752.1	29.87	758.8	51.3	10.7	44	nw.	.....	.....	3	.....	8	.....	nw.	0	0	very cloudy	M. Frère Eugène Mari.
Besançon, Normal School	28.93	734.7	29.82	757.4	47.8	8.8	83	s.	.....	.....	1	.....	10 n	.....	s.	0.059	1.5	raining	M. Gobin, Director.
Bordeaux, Observatory	29.80	757.0	30.07	763.7	55.2	12.9	67	wnw.	.....	.....	2	.....	10	.....	.....	0.087	2.2	covered	M. Rayet, Director.
Bourges, Normal School	29.40	746.7	29.95	760.7	54.5	12.5	50	sw.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	M. Postel, Director.
Brest, Naval Observatory	29.75	755.6	29.99	761.8	56.1	13.4	79	sw.	.....	.....	2	.....	10	.....	sw.	0.039	1.0	misty	M. de Kermaree, Dir.
Caen, Normal School	29.82	757.5	29.90	759.4	54.1	12.3	59	W.	.....	.....	2	.....	5	.....	W.	0	0	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.46	748.2	29.78	756.4	50.8	13.8	58	W.	.....	.....	2	.....	8	nw.	nnw.	0.043	1.1	very cloudy	M. Jadot, Director.
Charleville, Normal School	29.31	744.5	29.83	757.6	53.2	11.8	36	nw.	.....	.....	3	.....	2	.....	se.	0.110	2.8	¼ covered ..	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.58	725.8	29.92	759.9	58.1	14.5	43	wnw.	.....	.....	2	c	5 k	.....	W.	0	0	½ covered ...	M. Alluard, Director.
Cluny, Normal School	29.05	737.9	29.90	759.4	54.7	12.6	54	ne.	.....	.....	3	.....	5	.....	.....	0.059	1.5	....	M. de Villemontée, Dir.
Commercy, Normal School	28.96	735.6	29.91	759.7	51.6	10.9	92	wnw.	.....	.....	2	5 ck	.....	wnw.	wnw.	0.102	2.6	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.20	690.8	29.69	754.0	58.6	14.8	45	n.	.....	.....	3	o	3 k	.....	n.	0	0	....	M. Jeangirard, Director.
Gréasque, du. Rhone	28.65	727.8	29.78	756.4	56.3	13.5	53	nw.	.....	.....	4	.....	3	.....	nw.	0	0	....	M. Kina, Director.
Grenoble, Normal School	29.13	740.0	29.91	759.8	46.0	7.8	66	nw.	.....	.....	1	.....	k	n.	W.	0	0	.....	M. Ablard, Director.
Guéret, Normal School	28.39	721.0	29.97	761.3	49.1	9.5	46	W.	.....	.....	2	.....	n	.....	W.	0	0	.....	M. Rivoire, Director.
Lamballe, Normal School	29.69	754.0	29.96	760.9	55.4	13	67	wnw.	.....	.....	1	.....	8	.....	wnw.	0	0	very cloudy	M. Olliffault, Director.
Lescar, Normal School	29.58	751.2	30.15	765.7	51.1	10.6	93	W.	.....	.....	4	.....	8	.....	.....	0.47	12.	very cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	29.98	761.4	30.08	764.0	55.4	13.0	77	wsw.	.....	.....	2	.....	10	.....	W.	0.039	1.0	covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28 86	733 1	29.93	760.3	47.1	8.4	83	e.	.....	.....	1	.....	1c	nnw.	nw.	0.028	0.7	misty	M. André, Director.
Mans, Normal School	29.68	753.9	29.99	761.8	51.4	10.8	55	W.	.....	.....	3	.....	5	.....	W.	0.012	0.3	cloudy	M. Piboen, Director.
Marseille, Observatory	29.53	750.0	29.80	756.8	59.5	15.3	55	nw.	.....	.....	6	.....	4	.....	nw.	0	0	.....	M. Stephan, Director.
Montlouis l'Instituteur	28.68	628.5	29.59	751.5	46.4	8.0	63	nw.	3.8	1.7	.....	.....	6	.....	W.	0	0	.....	M. Cave, for Dr. Fines.
Montpellier, Normal School	29.72	754.9	29.85	758.2	63.3	17.4	50	wnw.	.....	.....	1	.....	5	.....	.....	0	0	cloudy	M. Galzin, Director.
Nancy, Normal School	29.03	737.4	29.82	757.3	51.4	10.8	46	W.	.....	.....	1	5 ck	0	W.	.....	0.098	2.5	cloudy	M. Hasse, Director
Nantes, Observatory	29.88	759.0	30.04	763.1	57.7	14.3	49	wsw.	.....	.....	1–3	ck	8 k;kn	.....	W.	0	0	.....	M. Larocque, Director.
Perpignan, Observatory	29.76	755.9	29.87	758.7	61.9	16.6	56	n.	39.1	17.5	.....	.....	10	.....	nnw.	0	c	.....	Dr. Fines, Director.
Pic-du-Midi, Summit	21.19	538.3	.....	.....	26.6	— 3.0	.....	nw.	.....	.....	3–4	.....	10	.....	nw.	1.024	26.0	snowy	Gen'l de Nansouty, Dir.
Privas, Normal School	28.85	732.9	29.92	760.0	53.6	12	76	.....	.....	.....	.....	.....	.....	.....	.....	0	0	.....	M. Tailleu.
Puy de Dôme Obs'y, Summit	25.00	635 0	.....	.....	32.7	0.4	100	wnw.	.....	.....	4	.....	10	.....	.....	0.248	6.3	foggy	M. Alluard, Director.
Rochefort, Naval Obs'y	30.02	762.6	30.06	763.4	59.0	15.0	89	W.	.....	.....	1	.....	5	.....	wnw.	0.063	1.6	¼ covered ..	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.74	755.4	29.96	760.9	56.5	13.6	57	W.	.....	.....	1	.....	10	.....	.....	0	0	covered	M. Mouillot, Director.
Rodez, Normal School	27.80	706.1	29.97	761.1	50.7	10.4	72	nw.	.....	.....	2	.....	10	.....	s.	0.087	2.2	covered	M. Serger, Director.
Rouen, Normal School	29.86	758.4	29.91	759.6	51.1	10.6	70	wnw.	.....	.....	2	.....	2	.....	.....	0.043	1.1	slightly cl'dy	M. Platrier, Director.
Saint Maur, Observatory	29.72	755.0	29.89	759.2	52.3	11.3	44	wnw.	.....	.....	3	..	4	.....	nw.	0.028	0.7	....	M. Renou, Director.
Toulouse, Observatory	29.35	745.5	30.08	763.9	59.5	15.3	69	nw.	.....	.....	4	.....	8	.....	nw.	0.055	1.4	very cloudy	M. Baillaud, Director.
Versailles, Observatory	29.39	746 6	29.89	759.1	52.9	11.6	48	n.	.....	.....	3	.....	.....	.....	.....	0.059	1.5	....	Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.61	752.1	29.90	759.5	54.5	12.5	44	wnw.	.....	.....	2	.....	7	nw.	nw.	o	o	.....	M. Marié Davy, Director
GERMAN.																			
Bamberg	28.82	732.0	29.66	753.4	46.4	8.0	55	nw.	.....	.....	4	o	4k	.....	nw.	0.16	4.	rain & snow	Prof. Dr. Hoh.
Berlin	29.27	743.5	29.45	748.0	47.5	8.6	66	W.	.....	.....	2	.....	6	.....	.....	0.157	4.0	raining	Prof. Dr. Arndt.
Breslau	29.03	737.3	29.55	750.6	46.2	7.9	61	W.	.....	.....	2	.....	10	.....	.....	0	0	.....	Royal University Obs'y.
Carlsruhe	29.30	744.2	29.74	755.3	49.6	9.8	80	sw.	.....	.....	5	.....	9	ne.	.....	0.012	0.3	.....	Albert Senz.
Cassel	28.88	733.5	29.59	751.6	46.2	7.9	57	nw.	.....	.....	5	.....	8	W.	.....	0.039	1.0	.....	Dr. H. Mohl.
Frankfort on the Main	29.32	744.8	29.69	754 0	51.3	10.7	45	nw.	.....	.....	2	.....	7	.....	.....	0.051	1.3	.....	Physical Society.
Friedrichshafen	28.38	720.9	29.85	758.3	37.8	3.2	90	s.	.....	.....	1	.....	10	wsw.	.....	0	0	.....	Wilhelm, Chief Tel.
Hamburg	29.40	746.8	29.50	749.2	41.7	5.4	87	nw.	.....	.....	5	.....	10	.....	.....	0.205	5.2	raining	E. Preller.
Kiel	29.38	746.3	29.40	746.7	43.3	6.3	77	W.	.....	.....	3	.....	9	.....	.....	0.205	5.2	.....	Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.13	740.0	29.56	750.7	46.6	8.1	68	sw.	.....	.....	4	.....	9	wnw.	.....	0	0	.....	H. Leppig, Asst.
Magdeburg	29.33	745.0	29.52	749.8	47.5	8.6	55	W.	.....	.....	4	o	7 k8	.....	W.	0.189	4.8	.....	Dr. Assmann.
Memel	29.41	747.1	29.46	748.2	42.6	5.9	80	s.	.....	.....	3	7 c8	o	.....	.....	.....	.....	.....	Assermann.
Munich	27.91	708.8	29.75	755.6	38.3	3.5	87	sw.	.....	.....	4	.....	10	.....	.....	0.110	2.8	.....	Central Station
Neufahrwasser	29.39	746.4	29.40	746.8	49.5	9.7	57	sSW.	.....	.....	4	.....	10	.....	.....	0	0	.....	A. Lothes.
Neustadt, Palatinate	29.17	741.0	29.69	754.2	52.7	11.5	47	W.	.....	.....	3	.....	6	W.	.....	0.039	1.0	.....	Dicknether.
Stuttgart	28.78	730.9	29.67	753.5	52.7	11.5	47	W.	.....	.....	6	.....	4	nw.	.....	0.051	1.3	.....	Prof. Dr. Schoder.
Wustrow	29.37	746.0	29.39	746.6	44.4	6.9	86	sw.	.....	.....	4	o	4k	.....	.....	0.091	2.3	.....	Profs. Brandes & Reimer.
GREEK.																			
Athens	29.56	750.7	29.95	760.6	63.9	17.7	.....	sW.	.....	.....	1.0	.....	10	.....	.....	inap.	inap.	covered	Schmidt & Wourlisch.
INDIAN.																			
Bellary	28.25	717.5	.....	.....	100.0	37.8	17	W.	4.9	2.2	.....	5 ck	1	.....	.....	0	0	d. clouds	
Kurrachee	29.79	756.7	29.84	758.0	85.0	29.4	58	WSW.	23	10.3	.....	.....	4	sW.	.....	0	0	misty	
Lucknow	29.25	742.9	29.70	754 4	101.2	38.4	32	W.	7.5	3.4	.....	.....	0	.....	.....	0	0	blue sky	
Bombay	29.75	755 6	29.78	756.5	87.1	30.6	58	W.	10	4.5	.....	.....	0	.....	.....	0	0	blue sky	
Poona, Yarrowda	27.90	708.8	29.70	754.2	95.8	35.4	12	WNW.	21	9.4	.....	.....	0	.....	.....	0	0	blue sky	
Belgaum	27.25	692.1	29.74	755.5	83.4	28.6	61	sW.	9	4.0	.....	.....	0	.....	.....	0	0	blue sky	
Lahore	28.86	732.8	29.58	751.3	90.6	32.6	15	W.	3.1	1.4	.....	.....	0	.....	.....	0	0	blue sky	
Roorkee	28.60	726.4	29.47	748.6	87.6	30.9	7	NW.	7.1	3.2	.....	.....	2	.....	.....	0	0	.....	
Agra	29.09	738.9	29.64	752.7	95.6	35.3	9	W.	10.5	4.7	.....	.....	5	.....	W.	0	0	.....	
Nagpur	28.63	727.1	29.63	752.6	98.7	37.1	15	NW.	5.8	2.6	.....	.....	0	.....	.....	0	0	blue sky	
Jubbulpore	28.35	720.2	29.67	753.6	92.7	33.7	8	n.	3.5	1.6	.....	.....	0	.....	.....	0	0	blue sky	
Lucknow	29.23	742.5	29.60	751.7	93.2	34.0	13	NW.	12.9	5.8	.....	.....	0	.....	.....	0	0	misty	
Allahabad	29.31	744.5	29.62	752.2	93.2	34.0	15	NW.	7.8	3.5	.....	.....	0	.....	.....	0	0	misty	
Patna	29.49	749.0	29.67	753.6	89.0	31.7	21	NW.	6.5	2.9	.....	.....	0	.....	.....	0	0	blue sky	
Hazaribagh	27.64	702.1	29.60	751.7	89.8	32.1	21	W.	13.0	5.8	.....	.....	0	.....	.....	0	0	misty	
Cuttack	29.60	751.8	29.68	753.9	87.1	30.6	64	sSW.	2.8	1.2	.....	.....	0	.....	.....	0	0	misty	
Calcutta, Alipore	29.61	752.1	29.63	752.6	88.7	31.5	63	sse.	6.0	2.7	.....	.....	0	.....	.....	0	0	misty	
Dhubri	29.56	750.9	29.68	754.0	77.7	25.4	71	ene.	12.3	5.5	.....	.....	0	.....	.....	0	0	blue sky	
Chittagong	29.67	753.6	29.76	755 8	81.3	27.4	77	s.	10.9	4.9	.....	.....	6	.....	.....	0	0	d. clouds	
Sibsagar	29.46	748.3	29.80	757.0	68.8	20.4	88	ne.	5.9	2.6	.....	.....	10	W.	W.	1.15	29.2	overcast	
Jeypore	28.27	718.0	29.67	753.6	94.0	34.4	23	nw.	8.2	3.7	.....	.....	5	nw.	.....	0	0	d. clouds	
Zanzibar, Africa	29.80	756.9	.....	.....	88.7	31.5	63	se.	3.6	1.6	.....	..	9	.....	.....	0	0	gloomy	
Trichinopoly	29.47	748.5	.....	.....	98.1	36.7	24	s.	2	0.9	.....	.....	6	.....	.....	0	0	d. clouds	
ITALIAN.																			
Udine	29.24	742.7	29.65	753.1	52.5	11.4	86	s.	1.8	0.8	.....	.....	10	.....	.....	0.287	7.3	.....	Prof. Giovanni Clodig.
Milan	29.13	739.8	29.64	752.9	55.9	13.3	63	W.	1.8	0.8	.....	.....	6	nnw.	.. ..	0.157	4.0	.....	Prof. Schiaparelli.
Padua	29.52	749.7	29.63	752.5	53.4	11.9	97	sse.	4.9	2.2	.....	. .....	10	n.	.....	0.102	2.6	.....	Prof. Dott. Lorenzoni.
Moncalieri	28.71	729.1	29.62	752.3	57.2	14.0	73	ene.	3.1	1.4	.....	.....	4	n.	.....	0	0	.....	Prof. P. F. Denza.
Genoa	29.52	749.9	29.72	754.8	52.3	11.3	71	s.	3.1	1.4	.....	.....	10	s.	.....	0.024	0.6	.....	Prof. G. M. Garibaldi.
Mondovi	27.70	703.6	29.62	752.3	59.0	15.0	48	0.	.....	.....	2	.....	.....	ene.	.....	0.063	1.6	.....	Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
ITALIAN.—Continued.																			
Pesaro	29.60	751.7	29.64	752.9	54.3	12.4	59	sw.	13.0	5.8	.....	.....	10	.....	.....	0.315	8.0	.....	Prof. Luigi Guidi.
Florence	29.48	748.8	29.74	755.3	48.6	9.2	89	sw.	.....	.....	2	.....	10	.....	.....	0.681	17.3	.....	Prof. Costantino Pitter.
Leghorn	29.58	751.2	29.66	753.4	49.6	9.8	84	s.	3.8	1.7	.....	.....	10	.....	.....	0.850	21.6	.....	Prof. P. Monte.
Rome	29.59	751.5	29.76	755.9	51.4	10.8	59	nne.	4.9	2.2	.....	.....	10	.....	.....	0.106	2.7	.....	Prof. P. S. Ferrari.
Lecce	29.52	749.9	29.74	755.3	60.6	15.9	35	wsw.	12.5	5.6	.....	.....	5	w.	.....	0.039	1.0	.....	Prof. C. de Giorgi.
Cosenza	28.89	733.8	29.78	756.3	55.4	13.0	73	wsw.	4.3	1.9	.....	.....	9	sw.	.....	0.315	8.0	.....	Prof. D. Conti.
Cagliari	29.60	751.8	29.79	756.7	54.9	12.7	61	wnw.	.....	.....	2	.....	9	w.	.....	0.181	4.6	.....	Prof. A. Pacinotti.
Palermo	29.58	751.3	29.83	757.7	56.8	13.8	44	wnw.	15.4	6.9	.....	.....	9	wnw.	.....	0.272	6.9	.....	Prof. G. Cincolatore.
Syracuse	29.80	757.0	29.85	758.2	60.3	15.7	49	w.	20.6	9.2	.....	.....	8	w.	.....	0	0	.....	Prof. Vincenzo Guiliano.
Sub-series.																			
Naples, S. R	29.20	741.6	29.72	755.0	51.8	11.0	75	sw.	2.5	1.1	.....	.....	7	ssw.	.....	0.028	0.7	.....	Prof. T. Brioschi.
Stelvio	21.82	554.3	.....	.....	34.2	1.2	65	ne.	.....	.....	1	.....	10	.....	.....	0	0	misty	Prof. P. F. Denza.
Valdobbia	21.85	554.9	.....	.....	30.4	— 0.9	86	n.	.....	.....	6	.....	5	.....	.....	0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Aomori	29.90	759.4	29.94	760.5	33.8	1.0	72	sw.	7.0	3.1	.....	ck	7 8	.....	.....	0.215	5.5	cloudy	K. Ogawa.
Hakodate	29.87	758.7	29.88	758.9	37.0	2.8	68	nw.	12.0	5.4	.....	.....	10	.....	.....	0	0	overcast	
Hiroshima, I. M. Obs'y	29.93	760.2	29.94	760.5	47.6	8.7	89	nne.	0.2	0.1	.....	.....	10 n	.....	.....	0.514	13.1	raining	K. Sasaki.
Kanazawa	29.83	757.7	29.93	760.2	45.1	7.3	77	se.	1.4	0.6	.....	.....	10 8	.....	.....	0.125	3.2	covered	S. Endo.
Kioto	29.84	757.9	30.02	762.5	46.3	7.9	82	sw.	0.9	0.4	.....	.....	10 8	.....	.....	0.225	5.7	cloudy	M. Tojima.
Kochi	30.05	763.3	30.07	763.8	49.1	9.5	79	nw.	4.2	1.9	.....	.....	10 n	.....	.....	0.620	15.8	light rain	
Nagasaki, I. M. Obs'y	29.71	754.6	29.91	759.7	52.6	11.4	93	sse.	10.5	4.7	.....	.....	10 n	.....	.....	0.860	21.8	raining	S. Takehayashi.
Niigata	29.91	759.7	29.95	760.7	42.7	5.9	89	se.	2.8	1.3	.....	10 ck	0	.....	.....	0.265	6.7	cloudy	
Nobiru	29.95	760.7	29.96	761.0	37.9	3.3	87	n.	4.0	1.8	.....	0	9 8	.....	.....	0.005	0.1	cloudy	H. Midzushima.
Sapporo	.....	.....	.....	.....	33.4	0.8	82	calm	0	0	.....	.....	5	.....	.....	0.010	0.3	fair	
Tokei Obs'y, Yeddo	29.90	759.4	29.97	761.2	49.2	9.6	73	se.	4.0	1.8	.....	2 cs	0	.....	.....	0	0	clear	The Staff.
Wakayama	29.98	761.5	30.03	762.7	54.2	12.3	65	sse.	5.9	2.6	.....	.....	10	.....	s.	0.176	4.5	light rain	Y. Kuwamura.
MAURITIUS.																			
Mauritius Observatory	29.66	753.4	29.85	758.2	79.2	26.2	79	nw.	15.5	6.9	.....	7ck;cs	2k;ks	wnw.	wnw.	3.05	77.5	cloudy	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.72	602.5	29.94	760.5	53.6	12.0	80	w.	.....	.....	.....	0	4	.....	sw.	0.394	0.1	clear	Vicente Fernandez.
Leon	24.46	621.2	30.17	766.3	55.8	13.2	84	n.	.....	.....	1	0	7	.....	s.	0.022	0.6	cloudy	Prof. M. Leal.
Mazatlan	29.71	754.7	29.98	761.4	68.0	20.0	82	nne.	.....	.....	.....	c	10 n	sw.	.....	imp.	imp.	drizzling	F. Quijano, C. E.
Mexico, Central Obs'y	23.16	588.2	30.26	768.5	52.9	11.5	85	calm	0	0	.....	1	5	.....	.....	0.473	12.0	clear	M. Tena, M. D.
Morelia	24.23	615.3	30.35	770.9	58.5	14.7	65	se.	.....	.....	2	6	2	w.	w.	0	0	cloudy	The Staff.
Pabellon, Aguascallentes	23.99	609.3	30.03	762.8	57.2	14.0	92	calm	0	0	.....	5	3	ssw.	ssw.	0.040	0.9	cloudy	M. V.de Leon, M. E.
Puebla, Catholic Institute	23.43	595.0	30.23	767.8	50.9	10.5	82	calm	0	0	.....	0	0	.....	.....	0	0	clear	Prof. P. Spina.
San Luis Potosi	24.18	614.2	30.14	765.6	55.6	13.1	74	wsw.	.....	.....	1	.....	10	.....	sw.	0	0	covered	G. Barroeta, M. D.
Vera Cruz	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Zacatecas	22.62	574.3	30.29	769.1	52.2	11.2	72	.....	.....	.....	.....	0	8	.....	.....	0	0	cloudy	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.74	755.4	29.74	755.4	49.3	9.6	.....	w.	.....	.....	5	.....	.....	.....	.....	0.091	2.3	.....	
Groningen	29.49	749.1	29.55	750.5	44.2	6.8	.....	w.	.....	.....	4	.....	.....	.....	.....	0.264	6.7	.....	
Helder	29.58	751.3	29.58	751.3	45.1	7.3	.....	w.	.....	.....	5	.....	.....	.....	.....	0.154	3.9	.....	
Hellevoetsluis	29.08	753.9	29.68	753.9	47.5	8.6	67	w.	.....	.....	4	.....	.....	.....	.....	0	0	.....	
Utrecht	29.62	752.4	29.67	753.6	50.9	10.5	60	wsw.	.....	.....	5	.....	8	.....	.....	0.146	3.7	very cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.02	737.1	29.08	738.7	40.3	4.6	84	s.	7	3	.....	.....	10	.....	.....	0.394	10.0	raining	
Brono	28.93	734.8	28.97	735.8	41.0	5.0	83	calm	0	0	.....	.....	10	.....	.....	0.142	3.6	.....	
Christiania	28.87	733.2	29.01	736.9	42.3	5.7	88	sw.	2	1	.....	.....	1	.....	.....	0.606	15.4	.....	
Gjæsvær	29.15	740.4	29.17	741.0	26.2	— 3.2	.....	sse.	.....	.....	7	.....	10	.....	.....	.....	.....	.....	
Lodingen	28.95	735.2	28.99	736.4	38.7	3.7	66	wnw.	.....	.....	4	.....	9	.....	.....	0.004	0.1	.....	
PORTUGUESE.																			
Angra, Azores	.....	.....	.....	.....	57.6	14.2	63	sse.	8.7	3.9	.....	.....	3	.....	.....	0	0	.....	Dr. J. A. Sampaio.
Campo Major	29.14	740.1	30.11	764.9	71.6	22.0	36	n.	4.9	2.2	.....	.....	7	.....	.....	0	0	.....	Dr. A. M. R. dos Santos.
Funchal, Madeira	30.14	765.5	30.22	767.7	64.0	17.8	56	nne.	.....	.....	.....	.....	6	.....	.....	0	0	.....	Capt. D. A. de Cunha.
Lisbon, Observatory	29.85	758.2	30.21	767.4	63.1	17.3	62	nnw.	13.6	6.1	.....	.....	1	.....	.....	0	0	.....	The Staff.
Ponta Delgada, Azores	30.51	775.0	30.58	776.8	57.9	14.4	63	ne.	4.3	1.9	.....	.....	3	.....	.....	0	0	.....	
Saint Paul de Loando	29.58	751.2	29.77	756.2	82.2	27.9	80	wsw.	1.3	0.6	.....	.....	3	sse.	.....	0	0	.....	
Serra da Estrella	25.43	646.0	30.11	764.7	55.6	13.2	46	ne.	3.8	1.7	.....	.....	4	.....	.....	0	0	.....	
RUSSIAN.																			
Akmolinski	29.05	737.9	30.21	767.4	18.0	— 7.8	72	wsw.	7	3	.....	0	8 k	.....	.....	0	0	.....	Major K. Lasarew.
Archangel	29.72	754.8	29.74	755.3	36.1	2.3	77	ssw.	2	1	.....	.....	10	.....	.....	0	0	light clouds	Capt. Sseliwerstow.
Astrakhan	30.52	775.1	30.43	773.0	45.7	7.6	49	se.	7	3	.....	0	2 ks	.....	.....	0	0	.....	Capt. Wisganow.
Barnaul	29.74	755.5	30.27	768.8	31.8	— 0.1	78	sw.	4	2	.....	.....	10	.....	.....	0	0	.....	Meteorological Obs'y.
Dorpat	29.27	743.5	29.52	749.7	41.2	5.1	86	se.	7	3	.....	.....	10 h	.....	.....	0.114	2.9	.....	Observatory.
Ekaterinburg	29.04	737.5	30.04	763.0	30.0	— 1.1	73	w.	11	5	.....	.....	10	.....	.....	0	0	.....	Meteorological Obs'y.
Kasan	29.83	757.6	30.11	764.8	33.8	1.0	83	ssw.	9	4	.....	.....	10	.....	.....	0.008	0.2	snowing	Observatory.
Kertch	30.14	765.5	30.16	766.0	49.1	9.5	59	se.	2	1	.....	0	0	.....	.....	0	0	.....	Lagorio & Sastyrez.
Kieff	29.19	741.4	29.82	757.3	55.8	13.2	33	sse.	20	9	.....	8 c;cs	0	.....	.....	0	0	.....	Observatory.
Lugan	30.05	763.3	30.26	768.5	50.4	10.2	32	sse.	22	10	.....	.....	2	.....	.....	0	0	light clouds	Meteorological Obs'y
Moscow	29.36	745.8	29.85	758.1	42.1	5.6	60	s.	4	2	.....	.....	10 8	.....	.....	0.024	0.6	.....	Meteorological Obs'y.
Nikolaiev	30.01	762.3	30.08	764.1	53.6	12.0	49	s.	18	8	.....	0	0	.....	.....	0	0	.....	Capt. Kurdakow.
Nikolaievsk, on the Amoor	29.95	760.8	30.04	763.0	28.8	— 1.8	92	nw.	2	1	.....	.....	10	.....	.....	0	0	.....	Lieut. Iwanow.
Pekin, China	30.09	764.3	30.23	767.9	38.5	3.6	23	nw.	20	9	.....	1 c	0	.....	.....	0	0	.....	Physical Observatory
St. Petersburg	29.58	751.2	29.59	751.6	37.0	3.1	84	sse.	9	4	.....	.....	10 n	.....	.....	0.039	1.0	.....	Central Physical Obs
Tashkend, Laboratory	28.56	725.3	30.14	765.6	52.5	11.4	65	s.	0	0	.....	.....	4	.....	.....	0	0	.....	Telch, A. M.
Tiflis	28.81	731.8	30.27	768.8	46.0	7.8	46	s.	2	1	.....	.....	9 k	.....	.....	0.024	0.6	.....	Physical Observatory
Vladivostok	29.73	755 2	29.80	756.9	35.2	1.8	100	calm	0	0	.....	.....	10 n	.....	.....	0	0	.....	
Warsaw	29.10	739.2	29.52	749.9	48.7	9.3	86	ssw.	7	3	.....	.....	10 n	.....	.....	.....	.....	raining	Astronomical Obs'y
Wilna	29.11	739.4	29.52	749.9	53.6	12.0	71	sse.	4	2	.....	.....	9	.....	.....	0.217	5.5	.....	Berg, Assistant.
Yeniseisk	30.04	763.0	30.34	770.7	29.7	— 1.3	63	s.	2	1	.....	.....	0	.....	.....	0	0	.....	M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	29.80	757.0	29.91	759.6	60.8	16	68	se.	2.5	1.1	.....	.....	3	.....	.....	0	0	clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.16	766.0	30.22	767.5	55.4	13.0	93	nw.	5.4	2.4	.....	.....	10	.....	.....	0.236	6.0	covered	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.21	691.0	30.20	767.1	52.0	11.1	74	nw.	5.4	2.4	.....	.....	10	.....	.....	0	0	covered	Domingo Martin.
Madrid, Royal Obs'y	27.89	708.4	30.08	764 0	65.8	18.8	43	n.	9.2	4.1	.....	0	3	.....	.....	0	0	cloudy	The Staff.
Murcia, Met. Obs'y	29.89	759.3	30.04	763.1	70.5	21.4	50	w.	5.4	2.4	.....	0	4	.....	.....	0	0	clouds	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.32	744.7	30.22	767.7	57.9	14.4	73	calm	0	0	.....	.....	10	.....	.....	0	0	covered	R. Gil Vallanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I	30.10	764.6	30.17	766.2	67.1	19.5	87	ne.	2.7	1.2	.....	0	0	.....	.....	0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.96	761.0	30.02	762.5	78.8	26.0	67	e.	4.4	2.0	.....	0	k	.....	.....	0.138	3.5	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.05	763.2	30.15	765.7	71.4	21.9	29	ne.	7.0	3.1	.....	4	4	se.	ne.	0	0	.....	Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	30.01	762.3	30.10	764.6	73.8	23.2	90	calm	0	0	.....	5 k	3 kn	se.	se.	0.087	2.2	cloudy	Manuel Maeu.
Tuguegarao, Philippine Id's	29.95	760.7	30.08	764.0	70.9	24.9	71	s.	5.7	2.5	.....	0	2 ks	.....	sso.	0	0	clear	Jose L. Yrastorza.
SWEDISH																			
Haparanda	29.37	746.1	29.41	747.1	34.5	1.4	93	s.	.....	.....	4	.....	10	.....	.....	0	0	.....	
Umea	29.23	742.5	29.28	743.8	32.9	0.4	100	sw.	.....	.....	7	.....	10	.....	.....	0.272	0.9	.....	
Hernosand	29.11	739.5	29.17	740.8	33.3	0.7	94	se.	.....	.....	7	.....	10	.....	.....	0.035	0.9	.....	
Stockholm	29.03	737.3	29.21	741.8	38.5	3.6	87	s.	.....	.....	4	.....	10	.....	.....	.....	.....	raining	
Wisby	29.21	741.9	29.27	743.4	41.4	5.2	78	sw.	.....	.....	4	.....	10	.....	.....	.....	.....	raining	
Sub-series.																			
Upsala	29.09	738.8	29.17	741.0	37.4	3.0	86	sse.	18.8	8.4	.....	.....	10	.....	s.	0.031	0.8	raining	S. G. Fineman.
SWISS.																			
Geneva	28.47	723.1	29.91	759.6	50.0	10.0	62	w.	.....	.....	1	.....	.....	.....	.....	0.004	0.1	covered	The Observatory

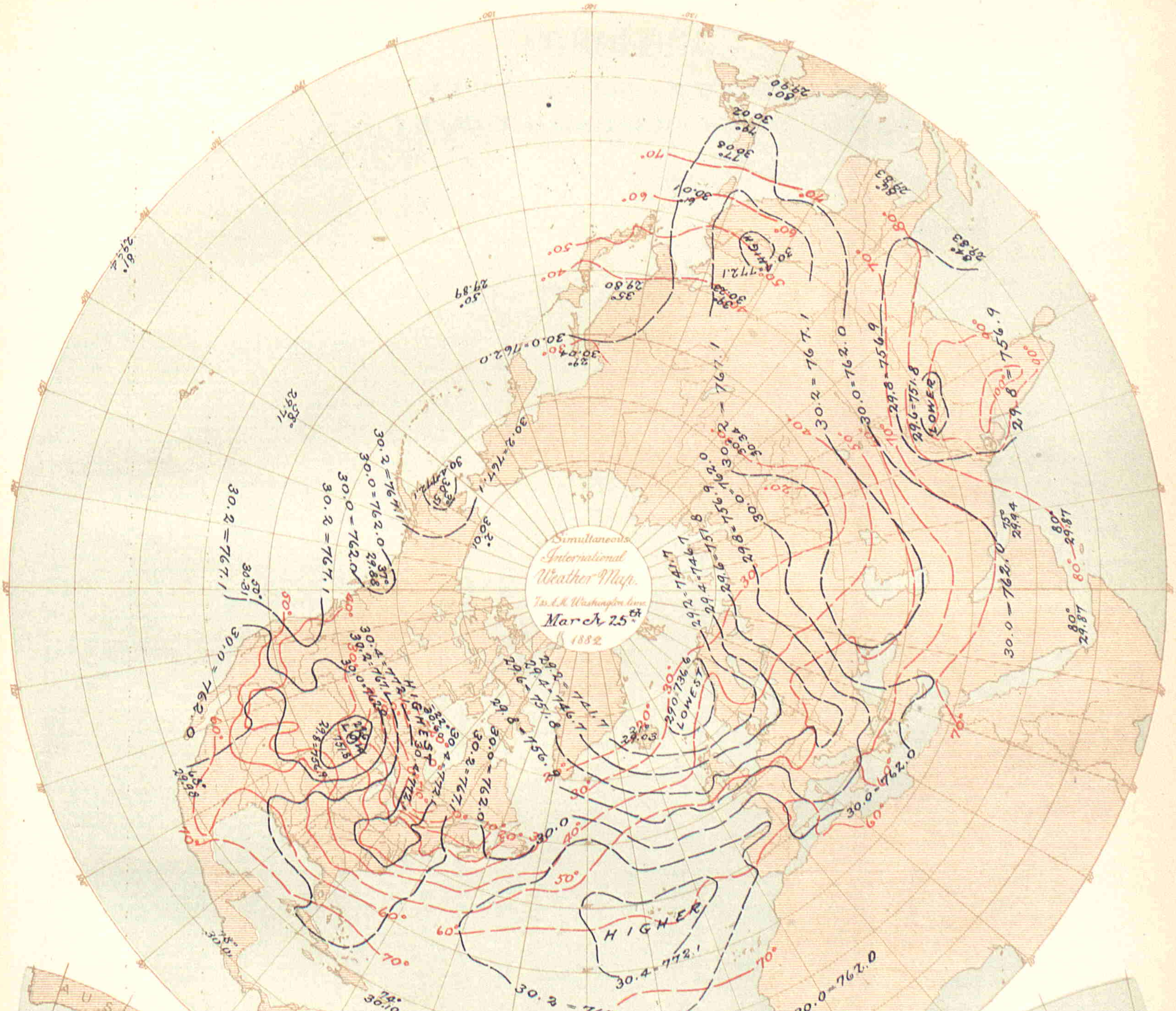
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
TURKISH.																			
Constantinople	.....	.....	29.96	761.0	55.6	13.1	63	ene.	3	1.3	.....	.....	5	.....	n.	0	0	.....	The Observatory.
Valona	.....	.....	29.84	757 8	56.1	13.4	.....	sw.	.....	.....	1	.....	10	.....	.....	0	0	covered	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	30.00	762.1	70.0	21.1	69	wsw	.....	.....	3	0	4 k	.....	sw..	0	0	.....	Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	30.32	770.1	30.41	772.4	21	— 6.1	70	n.	8	3.6	.....	0	0	.....	.....	inap.	inap.	clear	J. C. Barnes.
Alpena, Michigan	29.65	753.1	30.35	770.9	6.5	—14 2	76	w.	3	1.3	.....	6 cs	3 k	sw.	.....	0.02	0.5	cloudy	Jas. J. Fitzgerald.
Atlanta, Georgia	29.12	739.6	30.33	770.4	39.5	4.2	55	nw.	8	3.6	.....	0	hz.	.....	.....	0	0	clear	H. Hall.
Atlantic City, New Jersey	30.40	772.1	30.41	772.4	25	— 3.9	73	n.	8	3.6	.....	0	0	.....	.....	0	0	clear	Jas. M. Watson.
Augusta, Georgia	30.17	766.3	30.37	771.4	47.2	8.4	63	ne.	4	1.8	.....	0	0	.....	.....	0	0	clear	John Healy.
Baltimore, Maryland	30.43	772.9	30.48	774.2	28	— 2.2	54	n.	7	3.1	.....	0	0	.....	.....	0	0	clear	Robert Seyboth.
Barnegat, New Jersey	30.39	771.9	30.41	772.4	24.3	— 4.3	72	n.	18	8.0	.....	0	0	.....	.....	0	0	clear	Chas. F. Merritt.
Bismarck, Dakota	27.86	707.6	29.78	756.4	27	— 2.8	88	ne.	2	0.9	.....	.....	10 s	.....	.....	0	0	cloudy	Cyrus Cramer.
Boise City, Idaho	27.21	691.1	30.13	765.3	38	3.3	82	w.	8	3.6	.....	.....	10 s	.....	w.	0.02	0.5	cloudy	B. E. Light.
Boston, Massachusetts	30.14	765.5	30.30	769.6	18.0	— 7.8	53	nw.	12	5.4	.....	0	0	.....	.....	0	0	clear	O. B. Cole.
Brownsville, Texas	30.05	763.3	30.10	764.5	65	18.3	100	se.	8	3.6	.....	.....	10 s	.....	.....	2.83	71.9	cloudy	J. C. Galloway.
Buffalo, New York	29.62	752.3	30.41	772.4	22	— 5.6	73	sw.	5	2.2	.....	4 ck	4 ks	sw.	sw.	inap.	inap.	cloudy	Wm Finn.
Burlington, Vermont	30.07	763.8	30.38	771.6	10.5	—11.9	60	n.	5	2.2	.....	0	0	.....	.....	inap.	inap.	clear	G. O. Schaeffer.
Cairo, Illinois	29.88	758.9	30.30	769.6	37.8	3.2	74	se.	7	3.1	.....	0	0	.....	.....	0	0	clear	W. H. Ray.
Campo, California	27.32	693.9	29.93	760.2	32.6	0.3	71	e.	3	1.3	.....	0	0	.....	.....	0	0	clear	W. H. Clendenon.
Camp Thomas, Arizona	27.11	688.6	29.89	759.2	54	12.2	69	s.	.....	.....	1	0	3 ks	.....	.....	0	0	clear	J. T. Fitzgerald.
Cape Henry, Virginia	30.40	772.1	30.42	772.7	35	1.7	69	n.	9	4.0	.....	3 k	0	n.	.....	0.32	8.1	clear	J. E. Lanouette.
Cape May, New Jersey	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	inap.	inap.	.....	W. Bolten.
Castroville, Texas	29.31	744.5	30.14	765.5	56	13.3	93	se.	6	2.7	.....	.....	10 n	.....	.....	0.04	1.0	light rain	T. Jones.
Cedar Keys, Florida	30.24	768.1	30.26	768.6	56	13.3	69	n.	13	5.8	.....	0	sk.	.....	.....	inap.	inap.	clear	F. W. Mixer.
Champaign, Illinois	29.30	745.7	30.22	767.6	32.2	0.1	78	se.	14	6.3	.....	10 k	0	w.	.....	0	0	cloudy	L. A. Welsh.
Charleston, S. Carolina	30.24	768.1	30.30	769.6	50	10.0	77	ne.	15	6.7	.....	0	0	.....	.....	0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.50	749.3	30.38	771.6	38.0	3.3	53	ne.	5	2.2	.....	0	sk.	.....	.....	0	0	clear	D. O. Donoghue.
Chattanooga, Tennessee	29.53	750.0	30.38	771.6	39.0	3.9	65	ne.	3	1.3	.....	0	0	.....	.....	0	0	clear	B. L. Goulding.
Cheyenne, Wyoming	23.79	604.3	29.97	761.2	31.8	— 0.1	40	n.	8	3.6	.....	0	2 s	.....	.....	0	0	clear	E. McGovern.
Chicago, Illinois	29.48	748.8	30.22	767.6	31.6	— 0.2	63	s.	8	3.6	.....	.....	10 s	.....	.....	0	0	cloudy	J. Mitchell.
Chincoteague, Virginia	30.38	771.6	30.40	772.1	29	— 1.7	67	n.	22	9.8	.....	0	1 s	.....	n.	0.02	0.5	clear	F. C. Pratz.
Cincinnati, Ohio	29.71	754.6	30.40	772.1	34	1.1	71	e.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	R. B. Watkins.
Cleveland, Ohio	29.63	752.6	30.41	772.4	24	— 4.4	75	sw.	8	3.6	.....	0	0	.....	.....	inap.	inap.	clear	J. B. Newlin.
Coleman City, Texas	28.27	718.0	30.12	765.0	54	12.2	93	s.	6	2.7	.....	.....	10 s	.....	s.	0	0	cloudy	L. Dorman.
Columbus, Ohio	29.51	749.5	30.40	772.1	28	— 2.2	77	nw.	2	0.9	.....	0	fg.	.....	.....	0	0	clear	D. Cuthbertson.
Concho, Texas	28.09	713.5	30.06	763.5	56	13.3	93	s.	9	4.0	.....	.....	10 s	.....	s.	0	0	cloudy	W. W. McConihe.
Davenport, Iowa	29.36	745.7	30.05	763.3	38	3.3	62	se.	14	6.3	.....	3 k	7 s	w.	w.	inap.	inap.	cloudy	R. R. Martin.
Dayton, Washington T'y	28.35	720.1	30.16	766.1	35.6	2.0	91	sw.	7	3.1	.....	0	0	.....	.....	0.05	1.3	clear	H. Clifford.
Deadwood, Dakota	25.00	636.5	29.90	759.4	32	0.0	74	calm	0	0	.....	10 cs	0	w.	.....	0	0	cloudy	G. W. Scott.
Decatur, Texas	.....	.....	.....	.....	53	11.7	72	se.	12	5.4	.....	.....	10 s	.....	.....	0	0	cloudy	D. J. Carr.
Delaware Breakwater, Del.	30.41	772.4	30.43	772.9	28	— 2.2	77	ne.	22	9.8	.....	4 k	0	n.	.....	inap.	inap.	fair	A. Schneider.
Denison, Texas	29.32	744.7	30.15	765.8	54.4	12.4	74	s.	12	5.4	.....	.....	10 s	.....	.....	0	0	cloudy	J. McGlone.
Denver, Colorado	24.46	621.3	29.90	759.4	39.5	4.2	30	sw.	4	1.8	.....	0	1 s	.....	calm	0	0	clear	F. M. Neal.
Des Moines, Iowa	28.88	733.5	29.84	757.9	37	2.8	61	s.	4	1.8	.....	0	0	.....	.....	0	0	clear	F. W. Conrad.
Detroit, Michigan	29.64	752.8	30.40	772.1	29.0	— 1.7	77	nw.	2	0.9	.....	.....	10 s	.....	calm	0	0	cloudy	C. F. R. Wappenhans.
Dodge City, Kansas	27.22	691.4	29.95	760.7	49.5	9.7	78	w.	12	5.4	.....	0	0	.....	.....	0	0	clear	E. A. Thomas.
Dubuque, Iowa	29.27	743.4	30.02	762.5	30.6	— 0.8	78	se.	9	4.0	.....	.....	10 s	.....	s.	0.01	0.3	threatening	J. Harvey Smith.
Duluth, Minnesota	29.16	740.7	29.90	759.4	24	— 4.4	88	ne.	8	3.6	.....	0	2 s	.....	sw.	0.37	9.4	clear	N. B. Conger.
Eagle Pass, Texas	29.28	743.7	30.10	764.5	58.1	14.5	93	se.	5	2.2	.....	.....	10 s	.....	.....	0.17	4.3	cloudy	F. Belford.
Eagle Rock, Idaho	25.22	640.6	30.09	764.3	30	— 1.1	80	sw.	12	5.4	.....	.....	10 n	.....	.....	0.27	6.9	light snow	J. M. Clifford.
Eastport, Maine	30.08	764.0	30.15	765.8	11.5	—11.4	50	w.	12	5.4	.....	0	0	.....	.....	0.21	5.3	clear	J. H. Melton.
El Paso, Texas	26.22	666.0	30.02	762.5	46	7.8	93	e.	3	1.3	.....	4 ck	0	sw.	.....	0.04	1.0	fair	J. F. Marshall.
Erie, Pennsylvania	29.65	753.1	30.42	772.7	27	— 2.8	88	s.	6	2.7	.....	.....	10 s	.....	s.	0	0	cloudy	R. H. Paxton.
Escanaba, Michigan	29.46	748.3	30.17	766.3	27	— 2.8	77	s.	14	6.3	.....	.....	10 s	.....	s.	0	0	cloudy	C. Dill.
Florence, Arizona	28.35	720.1	29.92	760.0	59.6	15.3	38	se.	3	1.3	.....	0	8 k	.....	sw.	inap.	inap.	cloudy	R. R. Herman.
Fort Apache, Arizona	25.06	636.5	30.08	764.0	34	1.1	66	e.	3	1.3	.....	0	5 s	.....	calm	0	0	fair	W. C. Barnes.
Fort Assinnaboine, Montana	26.92	683.8	29.93	760.2	31	— 0.6	71	sw.	4	1.8	.....	0	1 s	.....	.....	0	0	clear	B. O. Lenoir.
Fort Bennett, Dakota	28.07	713.0	29.77	756.1	30	— 1.1	70	calm	0	0	.....	2 cs	0	.....	.....	0	0	clear	T. Gibson.
Fort Benton, Montana	26.96	684.8	29.94	760.5	37	2.8	82	nw.	8	3.6	.....	.....	10 s	.....	calm	0.02	0.5	cloudy	S. Wheaton.
Fort Buford, Dakota	27.72	704.1	29.86	758.4	34	1.1	65	e.	1	0.4	.....	5 cs	0	calm	.....	0	0	fair	A. H. Bell.
Fort Custer, Montana	26.56	674.6	29.90	759.4	41	5.0	89	nw.	5	2.2	.....	.....	10 s	.....	calm	0	0	cloudy	V. Verge.
Fort Davis, Texas	25.13	638.3	30.01	762.2	50	10.0	57	s.	4	1.8	.....	.....	9 ks	.....	s.	0	0	cloudy	J. Williams.
Fort Elliott, Texas	27.15	689.6	29.98	761.5	44	6.7	47	s.	16	7.2	.....	0	0	.....	.....	0	0	clear	W. J. Cundall.
Fort Gibson, Indian T'y	29.49	749 0	30.08	764.0	54.0	12.2	66	s.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. B. Campbell.
Fort Grant, Arizona	25.14	638.5	29.98	761.5	52	11.1	31	sw.	5	2.2	.....	0	7 s	.....	.....	0	0	fair	T. J. Macgowan.
Fort Griffin, Texas	28.78	731.0	30.13	765.3	52	11.1	86	s.	2	0.9	.....	6 cs	0	calm	.....	0	0	fair	G. H. Hayne.
Fort Keogh, Montana	27.20	690.9	29.85	758.2	41	5.0	76	sw.	4	1.8	.....	.....	10 s	.....	sw.	0	0	cloudy	W. B. Stockman.
Fort Macon, North Carolina	30.34	770.6	30.35	770.9	38	3.3	53	n.	22	9.8	.....	hz	0	calm	.....	0	0	clear	L. Leonardy.
Fort McKavett, Texas	27.84	707.1	30.16	766.1	55.1	12.8	93	se.	7	3.1	.....	.....	10 s	.....	.....	0	0	cloudy	J. E. Thatcher.
Fort Missoula, Montana	26.59	675.4	29.97	761.2	35	1.7	100	nw.	1	0.4	.....	.....	10 s	.....	.....	0.01	0.3	threatening	J. H. Jones.
Fort St. Michaels, Alaska	30.48	774.2	30.51	774.9	3	—16.1	100	sw.	5	2.2	.....	0	0	.....	.....	c	0	clear	A. P. Leavitt.
Fort Shaw, Montana	26.18	665.0	29.98	761.5	36	2.2	82	w.	7	3.1	.....	.....	10 s	.....	.....	0	0	cloudy	A. L. Mathews.
Fort Sill, Indian Territory	28.80	731.5	30.09	764.3	51	10.6	90	s.	14	6.3	.....	10 k	0	s.	.....	0	0	cloudy	T. Cleary.
Fort Stevenson, Dakota	27.86	707.6	29.84	757.9	24	— 4.4	88	nw.	2	0.9	.....	.....	10 s	.....	calm	0	0	cloudy	W. Burrows.
Fort Verde, Arizona	.....	.....	.....	.....	43.2	6.2	47	w.	.....	.....	1	0	0	.....	.....	0	0	clear	D. Brooks.
Fort Washakie, Wyoming	24.18	614.2	.....	.....	27.3	— 2.6	61	sw.	4	1.8	.....	0	2 k	.....	.....	0	0	clear	T. M. Ambler.
Fredericksburg, Texas	28.36	720.3	30.12	765.0	54	12.2	93	se.	7	3.1	.....	.....	10 s	.....	.....	0	0	cloudy	H. S. Miles.
Galveston, Texas	30.16	766.1	30.20	767.1	64.5	18.1	58	se.	11	4.9	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	E. O'C. MacInerney.
Grand Haven, Michigan	29.58	751.3	30.28	769.1	23.5	— 4.7	88	e.	12	5.4	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	W. A. Reid.
Hatteras, North Carolina	30.31	769.9	30.33	770.4	42	5.6	65	ne.	24	10.7	.....	.....	10 k	.....	w	0.03	0.8	cloudy	R. M. Crawford.
Helena, Montana	25.59	650.0	29.96	761.0	39	3.9	65	sw.	12	5.4	.....	.....	10 s	.....	sw.	inap.	inap.	cloudy	N. C. Smith.
Henrietta, Texas	29.09	738.9	30.13	765.3	52	11.1	86	s.	8	3.6	.....	.....	10 s	.....	.....	0	0	cloudy	J. W. Byram.
Huron, Dakota	28.26	717.8	29.74	755.4	31	— 0.6	71	se.	1	0.4	.....	5 cs	0	.....	.....	0	0	fair	S. W. Glenn.
Indianapolis, Indiana	29.47	748.5	30.31	769.9	32	0.0	78	se.	5	2.2	.....	3 k	5 ks	nw.	nw.	inap.	inap.	cloudy	O. Schutze
Indianola, Texas	30.16	766.1	30.19	766.8	64.7	18.2	84	se.	8	3.6	.....	.....	10 s	.....	nw.	0.09	2.3	cloudy	I. A. Reed.
Jacksboro, Texas	28.91	734.3	30.12	765.0	51	10.6	80	se.	6	2.7	.....	.....	10 s	.....	s.	0	0	cloudy	J. P. Sherry.
Jacksonville, Florida	30.23	767.8	30.28	769.1	54	12.2	55	nw.	6	2.7	.....	2 cs	fg.	.....	.....	0	0	clear	J. W. Smith.
Keokuk, Iowa	29.32	744.7	30.01	762.2	35.5	1.9	65	se.	12	5.4	.....	4 k	0	w.	.....	0	0	fair	F. Z. Gosewisch
Key West, Florida	30.16	766.1	30.18	766.6	71.0	21.7	66	ne.	7	3.1	.....	0	2 as, hz	.....	.....	0	0	clear	L. M. Melbourne.
Kittyhawk, North Carolina	30.35	770.9	30.37	771.4	38	3.3	82	ne.	28	12.5	.....	0	8 k	.....	n.	0.17	4.3	cloudy	E. A. Beals.
Knoxville, Tennessee	29.33	745.0	30.39	771.9	32	0.0	76	ne	4	1.8	.....	0	0	.....	.....	0	0	clear	J. A. Cody.
La Crosse, Wisconsin	29.08	738.6	29.90	759.4	36	2.2	79	s.	17	7.6	.....	.....	10 n	.....	.....	0.03	0.8	light rain	S. C. Emery.
La Mesilla, New Mexico	26.07	662.2	30.02	762 5	45.5	7.5	88	calm	0	0	.....	0	8 s	.....	.....	0.25	6.3	cloudy	N. D. Lane.
Leavenworth, Kansas	28.98	736.1	29.92	760.0	53	11.7	66	s.	18	8.0	.....	4 k	0	sw.	.....	0	0	fair	A. W. Browne.
Lewiston, Idaho	29.23	742.4	30.09	764.3	45.2	7.3	73	w.	8	3.6	.....	.....	10 s	.....	w.	0.07	1.8	cloudy	W. Blake.
Little Rock, Arkansas	29.90	759.4	30.23	767.8	50	10.0	77	se.	3	1.3	.....	5 c	sk.	calm	calm	0	0	fair	M. F. Burrows.
Los Angeles, California	29.52	749.8	29.92	760.0	57.2	14.0	57	ne.	4	1.8	.....	0	0	.....	.....	0	0	clear	E. F. Kubel.
Louisville, Kentucky	29.75	755.6	30.34	770.6	35	1.7	69	e.	7	3.1	.....	0	1 s	.....	.....	0	0	clear	H. C. Smith.
Lynchburg, Virginia	29.71	754.6	30.43	772.9	32.0	0.0	54	e.	2	0.9	.....	0	0	.....	.....	0	0	clear	T. H. Breen.
Madison, Wisconsin	29.06	738.1	30.13	765.3	31	— 0.6	88	se.	18	8.0	.....	.....	10 n	.....	calm	0.02	0.5	light snow	C. A. Shaw.
Marquette, Michigan	29.35	745.5	30.12	765.0	21	— 6.1	70	s.	7	3.1	.....	.....	10 s	.....	calm	inap.	inap.	cloudy	I. Gilligan.
Mason, Texas	28.43	722.1	30.12	765.0	58	14.4	77	se.	9	4.0	.....	.....	10 s	.....	se.	0	0	cloudy	A. M. Wilson.
Memphis, Tennessee	29.94	760.5	30.29	769.4	45	7.2	60	calm	0	0	.....	2 c	hz.	.....	.....	0	0	clear	D. T. Flannery.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–01	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Milwaukee, Wisconsin	29.41	747.0	30.20	767.1	31	— 0.6	88	se.	20	8.9	.....	.....	10 s	.....	se.	0.01	0.3	threatening.	W. Line.
Mobile, Alabama	30.25	768 3	30.29	769.4	53	11.7	80	ne.	3	1.3	.....	4c;cs	0	nw.	....	0	0	fair	J. D. Paxton.
Montgomery, Alabama	30.06	763.5	30.30	769.6	48	8.9	68	calm	0	0	.....	4 cs	hz.	w.	.....	0	0	fair	J. B. McLaughlin.
Moorhead, Minnesota	28.39	721.1	29.47	748.5	20	— 6.7	84	s.	16	7.2	.....	.....	10 s	.....	s.	0.08	2.0	cloudy	H. Bessant.
Morgantown, W. Virginia	29.37	746.0	30.43	772.9	22.0	— 5.6	70	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. Sprigg, jr.
Mt. Washington, N. H.	23.40	594.3	29.92	760.0	—17.0	—27.2	77	nw.	58	26.0	.....	0	3 s	.....	nw.	0.12	3.0	clear	J. G. Linsley.
Nashville, Tennessee	29.78	756.4	30.34	770.6	36.0	2.2	79	n.	2	0.9	.....	0	fg.	.....	.....	0	0	clear	L. A. Jesunofsky.
New Haven, Connecticut	30.24	768.1	30.36	771.1	20	— 6.7	56	nw.	11	4.9	.....	0	0	.....	.....	inap.	inap.	clear	J. H. Sherman.
New London, Connecticut	30.32	770.1	30.37	771.4	22	— 5.6	44	nw.	13	5.8	.....	0	0	.....	.....	0	0	clear	J. G. Lynch.
New Orleans, Louisiana	30.19	766.8	30.25	768.3	57.2	14.0	64	ne.	8	3.6	.....	hz.	hz.	.....	.....	0	0	dense haze	A. J. Armstrong.
Newport, Rhode Island	30.26	768.6	30.31	769.9	22.0	— 5.6	64	w.	15	6.7	.....	0	0	.....	.....	0	0	clear	W. McGillivray.
New River, N. Carolina	.....	.....	.....	.....	35	1.7	69	n.	.....	.....	4	0	0	.....	.....	0	0	clear	C. C. Corbin.
New Shoreham, Rhode I'd.	30.29	769.4	30.32	770.1	23.0	— 5.0	61	n.	23	10.3	.....	0	0	.....	.....	0	0	clear	W. Davis.
New York, New York	30.20	767.1	30.38	771.6	23	— 5.0	87	nw.	7	3.1	.....	0	0	.....	.....	inap.	inap.	clear	E. B. Garriott.
Norfolk, Virginia	30.39	771.9	30.42	772.7	34	1.1	52	ne.	9	4.0	.....	0	0	.....	.....	0.31	7.9	clear	J. T. Elker.
North Platte, Nebraska	26.78	680.2	29.84	757.9	30.6	— 0.8	66	nw.	6	2.7	.....	0	0	.....	.....	0	0	clear	E. F. Brady.
Olympia, Washington T'y	30.25	768.3	30.29	769.4	36.0	2.2	89	calm	0	0	.....	.....	10 s	.....	calm	0.01	0.3	cloudy	J. Dascomb.
Omaha, Nebraska	28.52	724.4	29.77	756.1	43.8	6.6	83	s.	11	4.9	.....	0	0	.....	.....	0	0	clear	A. Pollak.
Ooglaamie, Pt. Barrow, Alas.	29.99	761 7	30.01	762.2	1.8	—16.8	95	w.	20	8.9	.....	hz.	5 s	.....	.....	0	0	fair	P. H. Ray.
Oswego, New York	30.06	763.5	30.40	772.1	19.3	— 7.1	57	n.	7	3.1	.....	0	0	.....	.....	0	0	clear	S. W. Beall.
Palestine, Texas	29.65	753.1	30.22	767.6	52.5	11.4	78	s.	3	1.3	.....	10 cs	0	w.	.....	0	0	cloudy	L. M. Pindell.
Pensacola, Florida	30.26	768.6	30.29	769.4	54.0	12.2	64	n.	8	3.6	.....	7 c	hz.	w.	.....	0	0	fair	M. McGauran.
Philadelphia, Pa	30.34	770.6	30.44	773.2	27	— 2.8	64	n.	7	3.1	.....	0	0	.....	.....	0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	17.44	443.0	30.03	762.7	11.5	—11.4	62	sw.	60	26.8	.....	0	1 s	.....	.....	0	0	clear	L. M. Dey.
Pioche, Nevada	23.84	605.5	29.98	761.5	48	8.9	20	sw.	5	2.2	.....	10 k	0	n.	.....	0	0	cloudy	C. K. Kitchel.
Pittsburg, Pennsylvania	29.59	751.6	30.44	773.2	24.0	— 4.4	64	s.	3	1.3	.....	0	0	.....	.....	inap.	inap.	clear	J. H. Bryce.
Port Eads, Louisiana	30.24	768.1	30.25	768.3	60.2	15.7	78	ne.	14	6.3	.....	0	hz.	.....	.....	0	0	clear	H. G. Christian.
Port Huron, Michigan	29.63	752.6	30.35	770.9	23.4	— 4.8	76	nw.	2	0.9	.....	10 cs	0	....	....	0	0	cloudy	W. O. Bailey.
Portland, Maine	30.18	766.6	30.23	767.8	19.0	— 7.2	53	nw.	11	4.9	.....	0	0	.....	.....	0	0	clear	D. C. Murphy.
Portland, Oregon	30.25	768.3	30.32	770.1	37.0	2.8	82	calm	0	0	.....	4 cs	4 s	.....	w.	0.06	1.5	cloudy	M. L. Hearne.
Portsmouth, N. Carolina	.....	.....	.....	.....	40	4.4	65	n.	30	13.4	.....	0	0	.....	.....	0	0	clear	F. P. Chaffee.
Prescott, Arizona	24.65	626.1	29.99	761.7	35	1.7	51	s.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. McN. Wright.
Provincetown, Mass	30.24	768.1	30.27	768.8	21	— 6.1	70	nw.	16	7.2	.....	3 k	0	nw.	.....	0	0	clear	P. T. Jenkins.
Punta Rassa, Florida	30.19	766,8	30.20	767.1	64	17.8	65	ne.	8	3.6	.....	0	hz.	.....	.....	0	0	clear	W. J. Evans.
Red Bluff, California	29.65	753.1	30.03	762.7	56.3	13.5	56	n.	10	4.5	.....	0	0	.....	.....	0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.86	758.4	30.10	764.5	66	18.9	93	se.	6	2.7	.....	.....	10 s	....	calm	0.05	1.3	cloudy	W. H. Taylor.
Rochester, New York	29.71	754.6	30.41	772.4	20	— 6.7	84	calm	0	0	.....	.....	10 s	.....	nw.	inap.	inap.	cloudy	A. T. Sherwood.
Roseburg, Oregon	29.75	755.6	30.31	769.9	45.5	7.5	82	n.	4	1.8	.....	.....	10 s	.....	.....	0	0	threatening	J. J. Nanry.
Sacramento, California	29.84	757.9	29.92	760.0	55.9	13.3	69	n.	7	3.1	.....	0	0	.....	.....	0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.56	750.8	30.19	766.8	33.5	0.8	72	se.	18	8.0	.....	0	0	.....	.....	0	0	clear	J. H. Webber.
St. Paul, Minnesota	28.92	734.6	29.84	757.9	29.0	— 1.7	80	se.	12	5.4	.....	5 k	0	sw.	.....	0	0	fair	O. S. M. Cone.
St. Vincent, Minnesota	28.79	731.3	29.73	755.1	17	— 8.3	91	ne.	4	1.8	.....	.....	10 s	.....	calm	0.11	2.8	cloudy	G. Kingsbury.
Salt Lake City, Utah	25.45	646.4	29.97	761.2	35	1.7	72	nw.	12	5.4	.....	.....	10 n	.....	.....	0.14	3.6	heavy snow	J. Craig.
San Antonio, Texas	29.43	747.5	30.14	765.5	56.6	13.7	86	ne.	1	0.4	.....	.....	10 n	.....	.....	0.07	1.8	light rain	E. Laue.
San Diego, California	29.83	757.7	29.89	759.2	55.8	13.2	86	sw.	6	2.7	.....	.....	fg.	.....	.....	0	0	light fog	A. C. Dobbins.
Sandusky, Ohio	29.67	753.6	30.39	771.9	25.3	— 3.7	73	sw.	6	2.7	.....	5 c	0	s.	.....	0	0	fair	M. H. Perry.
Sandy Hook, New Jersey	30.36	771.1	30.40	772.1	24.0	— 4.4	73	nw.	18	8.0	.....	1 k	0	nw.	.....	0	0	clear	B. A. Blundon.
San Francisco, California	29.87	758.7	29.94	760.5	53	11.7	86	w.	2	0.9	.....	0	fg.	....	....	0	0	clear	N. Gorom.
Santa Fé, New Mexico	23.12	587.2	30.10	764.5	42	5.6	50	e.	2	0.9	.....	0	0	.....	.....	0	0	clear	H. N. Jones.
Savannah, Georgia	30.18	766.6	30.27	768.8	50	10.0	61	n.	4	1.8	.....	0	0	.....	.....	0	0	clear	H. M. Ford.
Shreveport, Louisiana	29.99	761.7	30.24	768.1	53	11.7	86	s.	4	1.8	.....	4 cs	0	.....	.....	0	0	fair	E. N. Meekins.
Silver City, New Mexico	24.16	613.7	29.94	760.5	35	1.7	61	w.	2	0.9	.....	0	0	.....	.....	0.03	c.8	clear	J. B. Wallace.
Sitka, Alaska	29.81	757 2	29.88	758.9	37.1	2.8	82	calm	0	0	.....	.....	10 n	.....	calm	0.07	1.8	light rain	J. J. McLean.
Smithville, North Carolina	30.31	769.9	30.35	770.9	38	3.3	73	ne.	13	5.8	.....	0	0	.....	.....	0	0	clear	J. O. Rickli.
Spokane Falls, Wash. Ter.	28.01	711.4	30.14	765.5	32	0.0	81	sw.	5	2.2	.....	0	0	.....	.....	0.02	0.5	clear	D. Moore.
Springfield, Illinois	29.45	748.0	30.17	766.3	34	1.1	66	se.	18	8.0	.....	1 c	3 s	sw.	w.	0	0	fair	T. B. Jennings.
Springfield, Massachusetts	30.22	767.6	30.36	771.1	24.4	— 4.2	48	nw.	6	2.7	.....	0	0	.....	.....	0	0	clear	T. S. Outram.
Springfield, Mo	28.64	727.4	30.20	767.1	46	7.8	68	s.	12	5.4	.....	0	0	.....	.....	0	0	clear	J. B. Marbury.
Stockton, Texas	26.98	685.3	30.05	763.5	48.0	8.9	93	s.	4	1.8	.....	0	1 s	.....	s.	0	0	clear	J. O'Dowd.
Thatcher's Island, Mass	30.17	766.3	30.23	767.8	18.0	— 7.8	67	nw.	20	8.9	.....	0	0	.....	.....	0	0	clear	G. Liebmann.
Toledo, Ohio	29.63	752.6	30.36	771.1	27	— 2.8	64	s.	2	0.9	.....	7 cs	0	.....	.....	0	0	fair	A. Buell.
Tucson, Arizona	27.46	697.5	29.92	760.0	56	13.3	60	se.	2	0.9	.....	0	2 k	.....	.....	0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.85	758.2	30.23	767.8	39.4	4.1	75	sw.	2	0.9	.....	0	2 s	.....	.....	0	0	clear	R. P. Sibley.
Uvalde, Texas	29.13	739.9	30.11	764.8	56	13.3	100	e.	2	0.9	.....	.....	10 n	.....	e.	0.24	6.1	light rain	E. C. Imlay.
Vicksburg, Mississippi	30.01	762.2	30.27	768.8	52	11.1	66	e.	9	4.0	.....	4 cs	fg.	calm	calm	0	0	fair	T. J. Kenan.
Visalia, California	29.48	748.8	29.86	758.4	53.2	11.8	77	se.	3	1.3	.....	0	4 s	.....	.....	0	0	fair	J. T. Cochran.
Washington, D. C.	30.36	771.1	30.48	774.2	26	— 3.3	64	nw.	4	1.8	.....	0	0	.....	.....	0	0	clear	B. M. Purssell.
West Las Animas, Colorado	25.81	655.6	29.89	759.2	29	— 1.7	49	calm	0	0	.....	4 c	1 s	sw.	calm	0	0	fair	J. Grover.
Wickenburg, Arizona	.....	.....	.....	.....	43	6.1	56	calm	.....	.....	0	2 ck	0	w.	.....	0	0	clear	H. A. Kremp.
Williamsport, Pa	29.79	756.7	30.42	772.7	23.5	— 4.7	86	nw.	8	3.6	.....	hz.	0	.....	.....	0	0	clear	B. F. Hough.
Wilmington, N. Carolina	30.30	769.6	30.36	771.1	40	4.4	65	ne.	12	5.4	.....	hz.	0	calm	.....	0	0	clear	S. A. Haney.
Winnemucca, Nevada	25.58	649.7	30.08	764.0	37	2.8	56	nw.	24	10.7	.....	0	0	....	....	0	0	clear	J. R. Williams.
Yankton, Dakota	28.34	719.8	29.73	755.1	32	0.0	68	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. H. Atfield.
Yuma, Arizona	29.64	752.8	29.79	756.7	53.2	11.8	73	sw.	1	0.4	.....	0	0	.....	.....	0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.06	560.3	.....	.....	54.5	12.5	85	calm	0	0	.....	.....	10ks;8	.....	s.	0.02	0.5	cloudy	Joaquin Gomez.
Bridgetown, Barbados, W.I.	30.07	763.8	30.08	764.0	79	26.1	82	e.	.....	.....	.....	5 k	5 ks	e.	e.	0	0	fair	J. A. Racker.
Buenaventura, U. S. C.	30.06	763.5	30.08	764.0	76	24.4	90	n.	4	1.8	.....	.....	10 ks	.....	n.	0.02	0.5	cloudy	J. I. Plume.
Guadeloupe, W. I.	29.98	761.5	30.00	762.0	77	25.0	83	e.	.....	.....	.....	2 k	2 ks	.....	.....	0	0	clear	B. Bigar.
Havana, Cuba, W. I.	30.15	765 8	30.20	767.1	72	22.2	76	se.	1.2	0.5	.....	0	2 ks	.....	calm	0	0	fair	A. Van Caneghem.
Kingston, Jamaica, W. I.	30.12	765.0	30.13	765.3	71.2	21.8	80	n.	1	0.4	.....	0	7 s;n	.....	e.	0	0	fair	Robert Johnston.
Navassa	30.14	765.5	30.22	767.6	77	25.0	72	ne.	3	1.3	.....	5 ck	5 s	e.	ne.	0	0	.....	F. M. Everett.
Paramaribo, S. A.	30.05	763.3	30.05	763.3	78	25.6	82	e.	.....	.....	2	3 c	4 k	e.	.....	0.010	0.3	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.54	750.3	30.00	762.0	77	25.0	90	ne.	.....	.....	1	.....	9 ks	.....	calm	0	0	cloudy	Miss Flora A. Nichols.
Rivas	.....	.....	.....	.....	.....	.....	94	ne.	.....	.....	3	cs	0	e	.....	0	0	clear	Robert Mason.
Santiago de Cuba, W. I.	30.12	765.0	30.15	765.8	73	22.8	63	calm	0	0	.....	0	0	.....	.....	0	0	clear	.....
York Factory, B. A.	30.54	775.7	30.60	777.2	—22.0	—30.0	.....	w.	9	4.0	.....	0	1 s	.....	w.	0	0	fair	W. Wood.

STATIONS AND VESSELS.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
British Naval.																		
H. M. S. Agincourt, N. 39° 11′, E. 9° 06′	29.84	757.9	50	10.0	93	wsw.			4		9	wsw.						d. clouds.
H. M. S. Alert, S. 5° 41′ E. 53° 18′	29.87	758.7	86.8	30.4	73	sw.			1		4							d. clouds.
H. M. S. Alexandra, Naples, Italy	29.74	755.4	53.5	11.9	79	se.			2		10	sse.						overcast.
H. M. S. Bacchante, Alexandria, Egypt	30.10	764.5	63	17.2	83	ssw.			2		3	ssw.						d. clouds.
H. M. S. Boadicea, S. 34° 11′, E. 18° 26′	29.78	756.4	72	22.2	71	wnw.			1–2		2	calm						d. clouds.
H. M. S. Comus, N 7° 22′ E. 117° 40′	29.90	759.4	80	26.7	95	ene.			2		3							d. clouds.
H. M. S. Diamond, S. 32° 03′, E. 115° 43′	30.16	766.1	70	21.1	79	ese.			1		1							blue sky.
H. M. S. Dido, N. 17° 00′, W. 61° 45′	30.12	765.0	75	23.9		ne.			1		2	ne.						d. clouds.
H. M. S. Eclipse, S 15° 28′, E. 46° 11′	29.83	757.7	81	27.2		nnw.			2–3		5					2	nne.	tind'r storm
H. M. S. Espiegle, S. 34° 50′, E. 103° 48′	30.36	771.1	62	16.7	88	ene.			2		3					1	ene.	d. clouds.
H. M. S. Euryalus, Aden, Arabia	29.87	758.7	80	26.7	82						8	calm						overcast.
H. M. S. Fawn, N. 15° 04′ E. 42° 14′	29.86	758.4	79.5	26.4	68	nw.			2		2	nw.				2	wnw.	d. clouds.
H. M. S. Flying Fish, N. 34° 41′, E. 135° 12′	30.00	762.0	53	11.7	90	sw.			1		6	sw.						misty.
H. M. S. Gannet, S. 33° 01′, W. 71° 37′	30.01	762.2	60	15.6	82	calm			0		0							misty.
H. M. S. Inconstant, S. 23° 00′, E. 71° 15′	30.00	762.0	79	26.1	95	ne.			3		4	ne.				3	e.	d. clouds.
H. M. S. Iron Duke, N. 22° 16′ E. 114° 10′	29.97	761 2	67	19.4	100	calm			0		10	e.						overcast.
H. M. S. Lark, S. 26° 47′, E. 165° 56′	30.14	765.5	74.3	23.5		ese.			5		3					5	ese.	d. clouds.
H. M. S. Liffey, Coquimbo, Chili	29.99	761.7	62	16.7		calm			0		10							overcast
H. M. S. Magpie, N. 27° 15′, E. 127° 03′	30.01	762.2	70.7	21.5	72	s			4–6		10					7	s.	squally.
H. M. S. Malabar, N. 15° 26′, E. 57° 00′	29.87	758.7	80	26.7	91	ene.			1		1	ne.				1	ne.	blue sky.
H. M. S. Orontes, Near Suez, Egypt	30.03	762.7	74.5	23.6	53	nnw.			1		0							blue sky.
H. M. S. Rambler, St. Paul de Loando, Benguela	29.87	758.7	80	26.7		wnw.			2		4							d. clouds.
H. M. S. Ready, Muscat, Arabia	29.94	760.5	75.1	23.9		calm			0		6							d. clouds.
H. M. S. Rocket, Vancouver Id., B. C.	30.20	767.1	41	5.0	91	ssw.			3		5	wsw.						d. clouds.
H. M. S. Sea Gull, S. 5° 05′, E. 49° 36′	29.26	743.2	83	28.3	83	ese.			1–2		4					4	ese.	d. clouds.
H. M. S. Tamar, N. 37° 01′ E 11° 35′	29.93	760.2	56.5	13.6	69	w.			6		7	wsw.				5	w.	showery.
H. M. S. Thalia, S. 29° 41′, W. 22° 41′	30.16	766.1	74	23.3		ne.			5		8					3	ne.	d. clouds.
H. M. S. Triumph, Valparaiso, Chili	30.02	762.5	63	17.2	83	calm			0		2							d. clouds.
H. M. S. Tyne, N. 21° 10′, E. 114° 18′	30.05	763.3	73	22.8	95	calm			c		10	calm						overcast.
H. M. S. Woodlark, Bombay, India	29.89	759.2	84.5	29.2	68	wsw.			3–4		0							squally.
Portuguese Naval.																		
Quanza, Santiago, Cape Verd Islands	30.00	762.0	73.4	23.0	74	ne.			3		6		sw.			3	ne.	d. clouds.
Rio Lima, Porto Prayn, Cape Verd Islands	30.08	764.0	75.9	24.4	80	ene.			3		4		ene..	¼ h'r	¼ h'r	3	ese.	d. clouds.
Tamega, Macao, China	30.08	764.0	69.8	21.0	91	sw.			1		10			1 h'r	1 h'r			thnd'r storm.
United States Naval.																		
Navy Yard. Pensacola, Fla	30.26	768.6	57	13.9	69	ne.	10	4.5			8		ne.	0	0			foggy.
N. Yard, Portsmouth, N. H.	30.27	768.8	17	— 8.3	?	nw.	19	8.5			0			0	0			clear.
Naval Hospital, Yokohama, Japan	29.84	757.9	50.5	10.3	68	calm			0		0			0	0			clear.
Adams, Callao, Peru	29.78	756.4	68	20.0	95	calm			0		2					gr'd		fair.
Alaska, S. 20° 47′, W. 70° 50′	29.99	761.7	70	21.1	85	se.			2		0			0	0	sm'h		clear.
Alert, Hong Kong, China*	29.87	758.7	69	20.6	95	calm			0		10		calm			sm'h		overcast.
Alliance, Kingston, Jamaica, W. I.	30.05	763.3	76	24.4	73	calm			0		8			0	0	sm'h		cloudy.
Ashuelot, Nagasaki, Japan	29.25	742.9	55	12.8	93	sse.			2		10							raining.
Brooklyn, Montevideo, Uruguay	29.74	755.4	64	17.8	94	wnw.	20	8.9			0			0	0	sm'h		clear.
Colorado, New York, N. Y.	30.38	771.6	25	— 3.9	64	nw.	18	8.0			2		calm	0	0			clear.
Enterprise, N. 17° 37′ W. 67° 29′*	30.10	764.5	77	25.0	77	nne.			2		2					sm'h		clear.
Essex, Monrovia Liberia, Africa	29.93	760.2	80	26.7	87	w.			1		10					sm'h	w.	cloudy.
Franklin, Norfolk, Va	30.41	772.4	34	1.1	71	nnw.	13.2	5.9			0			0.03	0.8			clear.
Galena, Palermo, Sicily	29.86	758.4	57	13.9	09	ssw.			3		5		sw.			sm'h		fair.
Independence, Mare Island, Cal.	29.78	756.4	50	10.0	93	calm			0		0			0	0			clear.
Kearsarge, Kingston, Jamaica, W. I.	30.15	765.8	76	24.4	68	nw.			1		8							cloudy.
Lackawana, S. 23° 09′ W. 74° 27′†	30.15	765.8	69	20.6	100	n.			1–2		5		n.			sm'h	n.	cloudy.
Lancaster, Piraeus, Greece*	29.93	760.2	65	18.3	100	e.			0–1		10		s.					cloudy.
Marion, S. 33° 54′, E 18° 24′*†	29.85	758.2	65	18.3	100	wsw.			1		2		w.			sm'h		fair.
Michigan, Erie, Pa	30.32	770.1	26	— 3.3	100	sw.			2		8		w.					cloudy.
Minnesota, Newport, R. I.	30.32	770.1	23	— 5.0		nw.	10	4.5			0							clear.
Monocacy, Kobe, Japan	30.07	763.8	53	11.7	86	wnw.			1		10		calm					cloudy.
New Hampshire, Newport, R. I.	30.26	768.6	25	— 3.9	65	nw.			4		0					sm'h		clear.
Nipsic, Alecante, Spain	30.04	763.0	64	17.8	62	s.			3		2					sm'h		clear.
Onward, Callao, Peru†	30.11	764.8	67	19.4	95	calm			0		2		n.			long	w.	clear.
Palos, Kobe, Japan	30.05	763.3	52	11.1	60	sw.			3		10							overcast.
Passaic, Washington, D. C.	30.48	774.2	26	— 3.3	?	nw.			2		0							clear.
Pensacola, Callao, Peru	30.02	762.5	69	20.6	80	calm	0	0			2			0	0	sm'h		clear.
Portsmouth, Hampton Roads, Va	30.40	772.1	30	— 1.1	78	nw.			4		2		n.			sm'h		clear.
Powhatan, Port of Spain, Trinidad, W. I.	30.05	763.3	80	26.7	78	calm			0		1		sw.					hazy.
Quinnebaug, Messina, Sicily	29.81	757.2	55	12.8	68	wnw.			3		10		wnw.			sm'h		sprinkling.
Ranger, Black Head, Mexico*	29.93	760.2	75	23.9	81	se.			1		2		calm	0	0	sm'h		clear.
Richmond, N. 33° 50′, E. 136° 44′*	29.96	761.0	61	16.1	49	nw.			3		10			0	0	sm'h	w.	cloudy.
Shenandoah, N. 13° 26′, W. 62° 57′*	30.11	764.8	77	25.0	82	ene.			3		5		e.			sm'h		fair.
St. Louis, League Island, Pa	30.61	777.5	25	— 3.9	87	wnw.	8	3.6			0			0	0			clear.
Swatara, Kobe, Japan*	29.88	758.9	55	12.8	68	s.			1		10		calm			sm'h		drizzling.
Tennessee, New Orleans, La	30.23	767.8	57	13.9	87	ene.	7	3.1			0			0	0			hazy.
Vandalia, Key West, Florida†	30.30	769.6	72	22.2	76	ne.			2		0							clear.
Wabash, Boston, Mass.	30.28	769.1	20	— 6.7	58	nw.	6	2.7			0			0	0			clear.
Wachusetts, Sitka, Alaska	29.82	757.4	36	2.2	100	calm			0		10					sm'h		overcast.
Wyoming, Port Royal, S. C.	30.30	769.6	50	10.0	72	n.	12	5.4			2		nw.	0	0			hazy.
Yantic, Vera Cruz Mexico*	30.06	763.5	73	22.8	90	w.			2		5							fal.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.			Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Amount and kind.		Direction.						
								Force.	Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Nova Scotian, N. 50° 50′ W. 18° 17′	29.69	754.1	53	11.7		wsw.			5		10		wsw.			high	w.	raining.
S. S. Peruvian, Halifax, N. S*	29.68	753.9	22	—5.6		wnw.			3		4		w.	2 h'r	2 h'r			clear.
S. S. Prussian, Glasgow, Scotland*	29.36	745.7	46	7.8		wnw.			5		7		nw.	9 h'r	9 h'r			clou ty.
S. S. Waldensian, N. 53° 05′, W. 10° 05′*	29.90	759.4	56	13.3		sw.			3		6		nw.			con.	wnw.	showery.
AMERICAN STEAMSHIP COMPANY.																		
S. S. British Crown, Liverpool, Eng.†	29.77	756.1	50	10.0		sw.			7		8		wnw.	2 h'r	2 h'r			raining.
S. S. Illinois, N. 50° 06′, W 20° 19′	29.78	756.4	56	13.3	94	w.			3		10		w.			r'gh	w.	overcast.
S. S. Indiana, N. 49° 50′, W. 19° 22′†	30.05	763.3	60	15.6	76	w.			3		5		w.	h'vy	h'vy	mod.	w.	raining.
S. S. Ohio, Philadelphia, Penn			41	5.0	100	wnw			4		2		nw.					clear.
ANCHOR LINE.																		
S. S. Assyria, N. 39° 07′, E. 19° 28′ *†	30.62	777.7	61	16.1		nnw.			4		8		nnw.	o	o	sm'h	nne.	fine.
S. S. Devonia, N. 42° 06′, W. 56° 10′†	30.15	765.8	47	8.3		sse.			3		6		ne.			mod.	sse.	cloudy.
S. S. Galatia, N. 40° 27′, W. 63° 25′†	30.04	763.0				nnw.			8		10		nne.			mod.	nw.	light sleet.
S. S. Utopia, N. 34° 16′, W. 56° 14′*†	30.18	766.6	60	15.6	94	s.			2		1		sw.	2 h'r	2 h'r	mod.	nw.	clear.
ATLAS LINE.																		
S. S. Ailsa, N. 10° 29′, W. 75° 20′†	29.96	761.0	76	24.4	90	ne.			1		0			o	o	sm'h		fair.
S. S. Arden, Mayaguez, Porto Rico, W. I.						s.			1		2					sm'h	se.	fine.
S. S. Athos, N. 18° —′, W. 73° 40′	29.78	756.4				se.			1		5?		e.	½h'r	½ hr	sm'h		cloudy.?
BOSTON AND HALIFAX LINE.																		
S. S. Carroll, N. 42° 52′, W. 67° 45′†	30.41	772 4	35	1.7	63	nw.								o	o		w.	clear.
BRITISH METEOROLOGICAL OFFICE.																		
S. Auckland, N. 37° 14′, W. 34° 19′	30.50	774.7	62	16.7		s.			3		7							blue sky.
S. Baroda, S. 26° 00′, E. 81° 21′	30.13	765.3	75.3	24.1	86	ne.			4		7							d. clouds.
British Merchant, N. 11° 01′, E. 91° 02′	29.83	757.7	84.2	29.0	75	ese.			2		2							misty.
Caldew, N. 30° 33′, W. 36° 47′	30.44	773.2	67.2	19.6		e.			5		5							d. clouds.
S. S. Cipero, Off Pladda, Scotland	29.52	749.8	44	6.7	92	w.			6		6							d. clouds.
Bk. Commewyne, N. 33° 46′, W. 52° 02′	30.23	767 8	63.9	17.7	75				4		10							d. clouds.
S. S. Gordon Castle, Koh Chang, Siam, Asia	29.83	757.7	85.5	29.7	78	sse.			4		2							misty.
Brig Hermine, S. 0° 54′, W. 28° 16′	29.97	761.2	80.6	27.0	81	s.			1		6							d. clouds.
Hope, Aracaju, Brazil, S. A	29.96	761.2	83.5	28.6	79	nne.			3		5							d. clouds.
S. Lochee, N. 51° 08′, W. 25° 10′	29.74	755.4	55	12.8	97	wsw.			7		10							raining.
BRISTOL CITY LINE.																		
S. S. Brooklyn City, N. 50° 10′, W. 10° 50′*†	30.00	762.0	58	14.4		wsw.			7		10		w.	o	o		w.	cloudy.
CROMWELL LINE.																		
S. S. Hudson, N. 28° 28′, W. 79° 47′*†	30.22	767.6	72	22.2		n.			6		1		n.	o	o	mod.	ne.	fair.
CUNARD LINE.																		
S. S. Scythia, N. 50° 34′, W. 16° 30′†	29.86	758.4	56	13.3	93	wsw.			6		10		wsw.	12 h'r	12h'r	r'gh	wsw.	misty.
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. Canada, N. 41° 32′, W. 47° 15′	30.34	770.6	51.8	11.0		nw.			1		2		w.	3 h'r	3 h'r		ssw.	clear.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Bohemia, New York, N. Y.*†	30.18	766.6				nw.			5		1		nw.	o	o			fine.
S. S. Gellert, N. 49° 40′, W. 21° 50′	29.92	760.0	52	11.1		sw.			6–7		10		sw.	1 h'r	1 h'r	hv'y	sw.	hazy.
S. S. Lessing, Havre, France.*	29.93	760.2	56	13.3		wnw.			1		2?		wnw.	o	o	sm'h		cloudy ?
S. S. Silesia, Hamburg, Germany*†	29.47	748.5	48.0	8.9		w.			6		5		w.	2 h'r	2 h'r			raining.
JOHNSTON LINE.																		
S. S. Thanemore, N. 41° 03′, W. 56° 45′	30.03	762.7				ssw.			5		5		s.	mist	mist		sw.	
LEYLAND LINE.																		
S. S. Iberian, N. 42° 26′, W. 54° 26′						sse.			3		8		sse.	o	o	light	sw.	
MALLORY LINE.																		
S. S. Colorado, Key West, Flat†	30.13	765.3	70	21.1		nne.			3		1		nne.	o	o			clear.
MERCHANTS' EXPRESS LINE.																		
S. S. Freja, N. 48° 49′, W. 25° 07′†	30.06	763.5	57	13.9	94	sw.			6		10		wsw.	6 h'r	6 h'r	mod.	wsw.	drizzling
S. S. Hermod, Havre, France*†	29.52	749.8	51.8	11.0		w.			5		4?		wsw.	3 h'r	3 h'r			cloudy.
NATIONAL LINE.																		
S. S. England, New York, N.Y.*†	30.32	770.1				nw.			5		0			o	o	slight	wnw.	clear.
S. S. Erin, New York, N. Y.	30.26	768.6				nw.			4		0			o	o			fine.
S. S. Italy, N. 46° 01′, W. 35° 59′	30.34	770.6				n.			4		8		n.	4 h'r	4 h'r	mod.	cross	cloudy.
NEW YORK AND CUBA MAIL ST AMS IP COMPANY.																		
S. S. Niagara, N. 28° 50′ W. 79° 30′*†	30.31	769.9	68	20.0		n.			4		5		ne.	o	o	small	n.	hazy
NEW YORK, HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, N. 34° 16′, W. 75° 45′*†	30.41	772.4	50	10.0		nne.			5		3		ne.	o	o	high	nne.	clear.
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Alvena, N. 18° 04′, W. 68° 28′*†	29.95	760.7	77	25.0		se.			2									clear.
S. S. Atlas, Jeremie, Hayti, W. I*†	30.19	766.8	74	23.3		sw.			3								ne.	clear.
S. S. Bothnia, N. 43° 40′, W. 44° 22′	30.37	771.4	48	8.9		nw.			3								w.	clear.
S. S. City of Washington, N. 19° 52′, W. 90° 48′*†	30.10	764.5	75	23.9		se.			3							sm'h		clear.
S. S. Maas, N. 39° 48′, W. 63° 59′*	29.93	760.2	48	8.9		nw.			1							high	nw.	rainy.
S. S. New York, N. 24° 10′, W. 82° 50′*†	30.20	767.1	74	23.3		o.			3							sm'h		clear.
S. S. Olbers, S. 12° 13′, W. 37° 00′†*	29.98	761.5	83.5	28.6		nne.			3–5								ne.	rainy.
NORTH GERMAN LLOYD.																		
S. S. Elbe, N. 40° 45′, W. 70° 37′*	30.34	770.6	26.6	— 3.0		nne.			5		10		n.	o	o	mod.	n.	cloudy.
S. S. Hermann, N. 47° 14′, W. 29° 38′*†	30.21	767.3	57.2	14.0		w.			6		6		w.	4 h'r	4 h'r	long	wsw.	fair.
S. S Koln, N. 48° 51′, W. 22° 44′*	29.94	760.6	59.0	15.0	88	wsw.			7		10			8 h'r	8 h'r	high	wnw	light rain.
S. S. Leipzig, N. 44° 31′, W. 4° 28′	30.32	770.1	48.0	8.9	70	n.			3		2		n.	4 h'r	4 h'r	mod.	n.	clear.
S. S. Neckar, N. 48° 17′ W 24° 36′	29.98	761.5	56.8	13.8		sw.			5		8		sw.	light	light	h'vy	sw.	covered.
S. S. Nurnburg, N. 19° 09′, W. 23° 18′	30.08	764.0	75.2	24.0	77	ne.			3		10		ne.	1 h'r	1 h'r	3	ne.	cloudy.
S. S. Oder, N. 48° 40′, W. 27° 50′	30.03	762.7	59.0	15.0		nnw.			4		4?		n.	o	o	high	nw.	cloudy.?
S. S. Ohio, N. 49° 01′, W. 6° 44′	29.97	761.2				wsw.			4		10			o	o	long	wnw.	cloudy.
S. S. Saller, N. 42° 09′, W. 57° 02′	30.10	764.5	45.5	7.5		s.			6		5		s.	o	o	mod.	ssw.	fair.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Belgic, N. 40° 05′ E. 160° 47′†	29.89	759.2	50	10.0	64	nw.			4		5		nw.	o	o	high	wnw.	fair.
S. S. Gaelic, Hong Kong, China. †	29.98	761.5	73	22.8	100	se.			1		10		se.					overcast.
S. S. Oceanic, N. 35° 20′, W. 160° 27′*	29.71	754.6	58	14.4	88	s.			4		8		sw.			0	sw.	overcast.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, New York, N. Y†	30.34	770.6				nnw.			4		2		nnw.	o	o			clear.
S. S. Seminole, N. 39° 20′, W. 73° 55′†	30.42	772.7	26	—3.3	64	n.			4		1		n.	o	o	sm'h	nnw.	clear.
OREGON RAILWAY AND NAVIGATI N COMPANY.																		
S. S. City of Chester, N. 38° 21′, W. 123° 13′*†	29.98	761.5	53	11.7	80	nnw.			6		2		nnw.			high	nnw.	fair.
S. S. Oregon, Portland, Oregon†	30.27	768.8	40	4.4	91	calm			0		10							hazy.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, San Francisco, Cal†	29.89	759.2	52	11.1	79	calm			0									clear.
S. S. Geo. W. Elder, Seattle, Wash. Ter †	30.28	769.1	44	6.7		calm			0		3		var.	o	o			clear.
S. S. Idaho, San Francisco, Cal†	29.92	760.0	53	11.7	86	sw.			1		0							clear.
S. S. Orizaba, N. 34° 23′ W. 120° 25′†	29.82	757.4	57	13.9	75	nw.			3		fg		nw.	o	o	light	nw.	foggy.
S. S. State of California, N. 45° 36′, W. 124° 10′†	30.31	769.9	43	6.1	83	nnw.			3		10		nw.	o	o	mod.	nw.	overcast.
S. S. Victoria, N. 38° 34′, W. 123° 10′†	29.86	758.5	49	9.4	93	nw.			6		0					h'vy	nw	clear.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, Sydney, N. S. W	30.17	766.3	72	22.2	85	calm			0		0			o	o			clear.
S. S. City of New York, N. 0° 50′, W. 165° 20′†	29.94	760.5	81	27.2	74	o.			2		0			o	o	sm'h	no.	clear.
S. S. City of Pekin, N. 12° 22′, W. 88° 10′†	30.01	762.2	78	25.6	86	e.			4		5		e.	o	o	small	e.	fair.
S. S. City of Rio de Janeiro, N. 23° 00′, W. 105° 30′†	30.25	768.3	72	22.2	76	n.			3		10		nw.	o	o	long	nw.	misty.
S. S. City of Sydney, N. 34° 00′, E. 164° 10′†	30.33	770 4	67	19.4	74	se.			3		5		e.	o	o	mod.	se.	cloudy.
S. S. City of Tokio, N. 36° 55′ W. 130° 00′†	30.41	772.4	50	10.0	100	nnw.			9		10		nw.	o	o	r'gh	nw.	threatening.
S. S. Clyde, N. 22° 53′, W. 105° 45′†	29.97	761.2	73	22.8	95	sw.			2		5		nnw.	o	o		nw.	clear.
S. S. SouthCarolina, San Juan del Sur, Nicaragua, C.A†	30.09	764.3	76	24.4	73	nne.			6		5		ne.	o	o	light	s.	fine.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
Red Star Line.																		
S. S. Rhynland, Jersey City, New Jersey	30.38	771.6	24	—4.4	.....	nnw.	.....	.....	2	.....	0	.....	.....	0	0	.....	.....	clear.
S. S. Switzerland, N. 46° 40′ W. 29° 50′†	30.22	767.6	.....	.....	.....	wnw.	.....	.....	5	.....	10	.....	wnw.	0	0	hv'y	wsw.	misty.
S. S. Vaderland, N. 39° 53′, W. 68° 20′	30.05	763.3	34	1.1	.....	nnw.	.....	.....	5	.....	8	.....	nnw.	0	0	cross	nw.	cloudy.
S. S. Waesland, Antwerp, Belgium	29.76	755.9	48	8.9	.....	wsw.	.....	.....	6	.....	5	.....	wsw.	6 h'r	6 h'r	.....	.....	fair.
Rotterdam Line.																		
S. S. W A Scholten, N. 49° 07′, W. 21° 33′*	29.77	756.1	62.4	16.9	88	sw.	.....	.....	6	.....	10	.....	.....	4 h'r	4 h'r	high	w.	rain & fog.
Thingvalla Line.																		
S. S. Thingvalla, Copenhagen, Denmark†	29.45	748.0	45.5	7.5	.....	sw.	.....	.....	2	.....	4	.....	sw.	0	0	.....	.....	clear.
White Star Line.																		
S. S. Adriatic, N. 48° 19′ W. 38° 00′*†	30.11	764.8	51	10.6	.....	wsw.	.....	.....	7	.....	10	.....	wsw.	shr's	sh'rs	cross	sw.	misty.
S. S. Britannic, N. 41° 18′, W. 65° 04′*†	29.85	758.2	28	—2.2	.....	n.	.....	.....	6	.....	10	.....	.....	.....	.....	sm'h	.....	snowing.
S. S. Celtic, New York, N. Y†	30.27	768.8	28	—2.2	88	n.	.....	.....	3	.....	2	.....	nnw.	0	0	.....	.....	fair.
S. S. Republic, N. 49° 20′, W. 24° 10′†	30.07	763.8	57	13.9	93	wsw.	.....	.....	5	.....	10	.....	wsw.	sh'rs	sh'rs	high	wsw.	raining.
Wilson Line.																		
S. S. Romano, Hull, Eng.*†	29.53	750.0	51	10.6	.....	nnw.	.....	.....	4	.....	10	.....	.....	0	0	.....	.....	overcast.
S. S. Salerno, N. 45° 39 W. 36° 45′†	30.32	770.1	52	11.1	.....	nne.	.....	.....	4—5	.....	10	.....	ene.	.....	.....	con.	sw;n	clearing.
Winsor Line.																		
S. S. Catherine Whiting, Providence, R. I.†	30.27	768.8	.....	.....	.....	wnw.	.....	.....	6	.....	.....	.....	.....	.....	.....	.....	.....	
Miscellaneous.																		
Sch. Addie Fuller, Cedar Keys, Florida†	30.32	770.1	56	13.3	75	ne.	.....	.....	3	0	sk	.....	.....	0	0	.....	.....	smoky.
Bk. Adelaide, Rio de Janeiro, Brazil*†	30.00	762.0	83	28.3	.....	ne.	.....	.....	.....	.....	.....	.....	une.	0	0	.....	.....	clear.
Bk. Aureola, N. 39° 00′, W. 67° 05′*†	30.30	769.6	48	8.9	.....	n.	.....	.....	6	.....	10	.....	n.	7 h'r	7 h'r	mod.	n.	drizzling
Schr. Annie M. Smull, S. 32° 20′, W. 25° 17′*†	30.00	762.0	76	24.4	.....	ene.	.....	.....	.....	.....	5?	.....	ene.	0	0	.....	se.	clear.?
Bk. Bergenseren, N. 35° 14′, W. 25° 40′†	30.54	775.7	.....	.....	.....	ene.	.....	.....	3	.....	.....	.....	ene.	0	0	2	e.	fair.
Bk. Celestina, N. 4° 08′, W. 30° 26′*†	29.90	759.4	.....	.....	.....	ne.	.....	.....	3	.....	4	.....	ene.	0	0	mod.	nne.	
S. S. Compton, Havana, Cuba, W. I†	30.13	765.3	.....	.....	.....	calm	.....	.....	0	.....	1	.....	ene.	0	0	.....	.....	clear.
Bk. E. L. Pettengill, S. 13° 27′ W. 104° 55′†	30.10	764.5	.....	.....	.....	ese.	.....	.....	1	.....	1	.....	ese.	0	0	sm'h	.....	
S. Enoch Train, Off Dungeness, Eng*	29.71	754.6	.....	.....	.....	wsw.	.....	.....	6	.....	10	.....	wsw.	sh'rs	shr's	.....	.....	squally.
S. Exporter, N 39° 30′, W. 70° 20′*†	30.40	772.1	.....	.....	.....	n.	.....	.....	6	.....	2	.....	n.	0	0	mod	nw.	very fine.
Ship Festina Lente, N. 61° 48′, E. 0° 14′*	28.99	736.3	44	6.7	.....	wsw.	.....	.....	4—6	.....	8	.....	w.	6 h'r	6 h'r	mod.	w.	hailing.
U. S. F. C. S. FishHawk, Washington, D. C.†	30.52	775.2	39	3.9	55	nw.	.....	.....	2	.....	1	.....	w.	0	0	.....	.....	clear.
Bk. Freya, Baltimore, Md.	.....	.....	38	3.3	.....	nnw.	.....	.....	2	.....	0	.....	.....	0	0	.....	.....	hazy.
S. Grecian, S. 6° 04′, W. 31° 55′*†	29.97	761.2	81	27.2	.....	sse	.....	.....	3	.....	1	.....	se.	0	0	sm'h	.....	clear.
Bk. Geo. Booth, Cape Town, Africa*†	29.80	756.9	.....	.....	.....	nnw.	.....	.....	7	.....	10	.....	.....	0	0	long	nw.	threatening.
Bk. Granville, S. 29° 35′, W. 23° 07′*†	30.27	768.8	.....	.....	.....	ne.	.....	.....	3	.....	.....	.....	nne.	rain	rain	mod.	ese.	rainy.
S. Hedwig, N. 60° 00′, W. 2° 56′	29.07	738.4	43.2	6.2	78	w.	.....	.....	8	.....	6	.....	w.	4 h'r	4 h'r	7	wnw.	stormy.
Schr. Henry Denison, N. 11° 58′, W. 63° 13′†	30.00	762.0	.....	.....	.....	ne.	.....	.....	3	.....	3	.....	ne.	0	0	light	ne.	fair.
Bk. Johanne Auguste, S 2° 40′, E. 89° 19′*	29.69	754.1	.....	.....	.....	calm	.....	.....	0	.....	3	.....	ne.	3 h'r	3 h'r	long	ssw.	threatening
Bg. John Wesley, N. 25° 52′, W. 77° 56′†	30.26	768.6	74	23.3	.....	e.	.....	.....	4	.....	2	.....	e.	0	0	sm'h	.....	clear.
Bk. Josephine, N. 16° 10′, W. 76° 10′*†	30.21	767.3	78	25.6	73	ese.	.....	.....	5	.....	10	.....	.....	0	0	mod.	e.	cloudy.
Bk. Liberia, N. 37° 01′, W. 64° 20′*	29.73?	755.1?	.....	.....	.....	sw.	.....	.....	7	.....	0	.....	.....	4 h'r	4 h'r	.....	.....	
Schr. Maggie Abbot, N. 30° —′, W. 75° —′*†	30.15	765.8	.....	.....	.....	var.	.....	.....	5	.....	.....	.....	ne.	0	0	short	nw.	cloudy.
S. S. Nebo, N. 17° 37′ W. 51° 46′*†	29.90	759.4	.....	.....	.....	ene.	.....	.....	2	.....	2	.....	ene.	0	0	sm'h	.....	clear.
Bk. Peppina, N. 36° 23′, W. 2° 52′†	30.06	763.5	62	16.7	72	sw.	.....	.....	3	.....	0	.....	.....	.....	.....	sm'h	.....	clear.
Bk. Pilgrim, S. 43° 35′, E. 112° 10′*†	30.40	772.1	.....	.....	.....	s. to sw.	.....	.....	3	.....	.....	.....	sw.	0	0	cross	s.tow.	cloudy.
Bg. Potomac, N. 32° 30′, W. 68° 10′ *†	30.00	762.0	.....	.....	.....	nw.	.....	.....	6	.....	.....	.....	nw.	.....	.....	h'vy	nw.	cloudy.
Bkt. Spouless, N. 30° 52′ W. 40° 36′*†	30.30	769.6	.....	.....	.....	se.	.....	.....	.....	.....	.....	.....	se.	.....	.....	mod.	se.	clear.
Bk. Stella, S. 57° 40′, W. 67° 36′*	29.25	742.9	42.8	6.0	95	wsw.	.....	.....	6	.....	6	.....	sw.	hail	hail	r'gh	.....	squally.
S. S. Victoria J. Peed, N. 30° 21′, W. 72° 41′	.....	.....	.....	.....	.....	nnw.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Bg. Wauburn, S. 10° 48′, W. 23° 53′*†	30.10	764.5	.....	.....	.....	ese.	.....	.....	5	.....	3	.....	ene.	.....	.....	sm'h	.....	
S. Wm. Woodbury, N. 55° 46′, E. 3° 25′*†	29.60	751.8	50	10.0	86	sw.	.....	.....	6	.....	.....	.....	w.	.....	.....	mod.	sw.	cloudy.



Data, as appearing in the International Bulletin of similar date.

Isobars in *black* exhibit atmospheric pressure at sea level, and are charted from data as reported by the several observers.

Isotherms in *red* exhibit temperature of air, similarly charted.

Broken or dotted lines indicate that the lines so broken are doubtful.

Arrows, when charted, fly with the wind and exhibit wind-direction and force.

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W. B. Hazen

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

Heliotype Printing Co Boston

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON MARCH 26, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours	.....	.....	29.98	761.5	69.1	20.6	80	w.	.....	.....	3	.....	0	.....	.....	0	0	clear	Moiroud.
Algiers	.....	.....	29.99	761.7	65.8	18.8	57	nw.	.....	.....	1	.....	0	.....	.....	0	0	clear	Nicolas.
La Calle	.....	.....	29.95	760.6	65.5	18 6	70	nnw.	.....	.....	3	.....	3	.....	.....	0	0	pretty fair	Foufrède.
Tunis	.....	.....	29.87	758.8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.06	763.5	70.2	21.2	22	wnw.	.....	.....	1	.....	0	.....	.....	0	0	clear	Dumas.
Tebessa	.....	.....	.....	.....	60.4	15.8	54	sw.	.....	.....	3	.....	0	.....	.....	0	0	clear	Derché.
Geriville	.....	.....	.....	.....	63.0	17.2	20	ssw.	.....	.....	1	.....	1	.....	.....	0	0	very fair	Louchamp.
Laghouat	.....	.....	30.10	764.4	61.2	16.2	58	se.	.....	.....	1	.....	0	.....	.....	0	0	clear	Herbin.
Biskra	.....	.....	30.15	765.8	73.4	23.0	25	nw.	.....	.....	1	.....	0	.....	.....	0	0	clear	Malau.
Australian.																			
Melbourne, Victoria	30.06	763.5	30.15	765.8	54.2	12.3	80	se.	4	1.8	.....	.....	3	.....	.....	0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.10	739.0	29.64	752.8	53.6	12.0	44	sw.	.....	.....	5	.....	6	.....	.....	0.598	15.2	raining	Prof. Ivan Stozir.
Cracow, I. R Observatory	28.80	731.6	29.57	751.0	48.2	9.0	58	ne.	1.8	0.8	.....	.....	9	.....	.....	0.035	0.9	.....	Dr. Wierzbiski.
Eperies	28.67	728.2	29.56	750.7	41.4	5.2	84	n.	.....	.....	1	.....	10 s	.....	.....	1.110	28.2	.....	Julius Mikolik.
Gratz	28.32	719.3	29.55	750.6	54.0	12.2	42	wnw.	.....	.....	4	.....	6	.....	.....	0	0	.....	Andreas Rospini.
Hermannstadt	28.08	713.1	29.48	748.7	56.1	13.4	49	s.	.....	.....	5	.....	3	.....	.....	0	0	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.16	715.2	29.49	749.0	48.2	9.1	61	ssw.	.....	.....	1	.....	10	.....	.....	0.043	1.1	gloomy	The Staff.
Lemberg	28.56	725.3	29.56	750.7	39.2	4.0	85	ne.	.....	.....	1	.....	10	.....	.....	0.287	7.3	.....	Dr. T. Stanecki.
Pola	29.59	751.6	29.70	754.4	54.9	12.7	74	sse.	.....	.....	2	.....	8	.....	.....	0.528	13.4	.....	I. R. Hydrographic Office.
Szathmar	29.43?	747.6?	29.89?	759.2?	49.3	9.6	69	sw.	.....	.....	3	.....	10	.....	.....	0.425	10.8	.....	Joseph Midlinszky, S. J.
Szegedin	29.29	743.9	29.57	751.0	47.5	8.6	70	w.	.....	.....	2	.....	10	.....	.....	1.291	32.8	.....	Karl Stancel.
Trieste	29.63	752.5	29.73	755.1	53.6	12.0	69	se.	.....	.....	1	.....	0	.....	.....	0.594	15.1	.....	Rieder.
Vienna	28.85	732.7	29.56	750.7	53.2	11.8	36	se.	.....	.....	1	.....	1	.....	.....	0.039	1.0	.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.31	744.5	29.41	747.0	44.6	7.0	48	wnw.	38	17.0	.....	.....	3	.....	.....	0.005	0.1	squally	W. Boswell.
Armagh, Observatory	29.56	750.8	29.80	756.9	44.7	7.1	71	nw.	22	9.8	.....	.....	.....	.....	.....	.....	.....	squally	S. Call.
Bidston, Liverpool Obs'y	.....	.....	29.64	752.8	48.1	8.9	52	wnw.	41	18.3	.....	.....	7	.....	.....	.....	.....	d. clouds	John Hartnup.
Bolton, Sharples	29.05	737.9	29.58	751.3	43.9	6.6	67	nnw.	30	13.4	.....	.....	5	.....	.....	.....	.....	d. clouds	Thomas Mackereth. [A.S.
Bradford, Yorkshire	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0	0	.....	J. McLandsborough, F. R
Bridgetown, Barbadoes	29.98	761.5	30.01	762.2	82.0	27.8	67	ne.	.....	.....	2	.....	6	.....	.....	.....	.....	gloomy	Pvt. J. Surgenor, A. H.C.
Cardington	.....	.....	29.59	751.6	47.0	8.3	57	nw.	.....	.....	7.0	.....	1	.....	.....	.....	.....	blue sky	John McLaren.
Chatham, School M. E	29.32	744.7	29.45	748.0	46.1	7.8	54	n.	.....	.....	3	.....	7	.....	.....	blank	blank	d. clouds	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	29.68	753.9	29.91	759.7	47.8	8.8	54	nw.	.....	.....	6	.....	5	.....	.....	.....	.....	squally	The Staff.
Fort Napier, Natal	27.62	701.5	29.83	757.7	85.0	29.4	35	e.	.....	.....	1	.....	0	.....	.....	.....	.....	blue sky	Pvt. E. K Annis, A. H.C.
Free Town, Sierra Leone	29.66	753.4	29.88	758.9	84.0	28.9	71	sw.	.....	.....	1	.....	3	.....	.....	.....	.....	d. clouds	Sergt. John Robinson.
Galway, Queen's College	.....	.....	.....	.....	.....	.....	.....	w.	.....	.....	3	.....	10	.....	.....	.....	.....	raining	J. O'Donaghue.
Gibraltar, Mediterranean	30.06	763.5	30.11	764.8	65.4	18.6	73	e.	.....	.....	3	.....	0	.....	.....	.....	.....	blue sky	Opl. O. Baldwin.
Glasgow, Observatory	29.33	745.0	29.53	750.0	43.3	6.3	58	wnw.	.....	.....	3	.....	4 k	.....	.....	.....	.....	d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.32	744.7	29.49	749.0	47.2	8.4	62	nnw.	.....	.....	7	.....	2	.....	.....	.....	.....	blue sky	The Staff.
Guernsey	29.51	749.5	29.81	757.2	47.0	8.3	69	nnw.	.....	.....	6	.....	7	.....	.....	blank	blank	squally	A. Collenette, F. M. S.
Kew, Observatory	29.50	749.3	29.53	750.0	48.3	9.1	45	nnw.	39	17.4	.....	.....	8	.....	.....	.....	.....	d. clouds	The Staff.
Leicester, Museum	29.29	744.0	29.55	750.6	47.0	8.3	51	nw.	.....	.....	6	.....	6	.....	.....	.....	.....	d. clouds	J. O. Smith.
Malta, Mediterranean	29.77	756.1	29.84	757.9	63.6	17.6	76	w.	.....	.....	3	.....	6	.....	.....	.....	.....	d. clouds	I. H. Whysall.
Nassau, Bahamas	30.26	768.6	30.31	769.9	73.8	23.2	71	ne.	.....	.....	4	.....	7	.....	.....	.....	.....	d clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.08	738.6	29.61	752.1	44.9	7.2	71	nw.	.....	.....	4	.....	5	.....	.....	.....	.....	squally	John Mac Emall.
Oxford, Radcliffe Obs'y	29.36	745.7	29.59	751.6	44.9	7.2	60	wnw.	.....	.....	6	.....	3	.....	.....	.....	.....	squally	The Staff.
Plymouth	29.77	756.1	29.84	757.9	50.4	10.2	62	nw.	.....	.....	6	.....	5	.....	.....	.....	.....	d. clouds	John Merrifield.
Sandwick Manse, Orkneys	.....	.....	29.41	747.0	41.5	5.3	83	nw.	18	8.0	.....	.....	2	.....	.....	.....	.....	showery	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.59	751.6	29.66	753.4	53.8	12.1	81	sse.	.....	.....	1	.....	10	.....	.....	.....	.....	showery	W. H. Lyne.
Sheffield	29.27	743.4	29.54	750.3	50.0	10.0	64	nnw.	.....	.....	6	.....	1	.....	.....	0	0	blue sky	W. F. Cooper.
Silloth Rectory	29.55	750.6	29.58	751.3	45.0	7.2	72	nw.	.....	.....	6	.....	5	.....	.....	0.030	0.8	squally	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	29.60	751.8	43.7	6.5	63	nw.	31	13.9	.....	.....	5	.....	.....	.....	.....	d. clouds	R. S. J. Perry.
Stratfield Turgiss	29.41	747.0	29.63	752.6	47.6	8.7	60	nw.	.....	.....	4–5	.....	3	.....	.....	.....	.....	squally	Rev. C. H. Griffiths, F.M.S.
Truro, Royal Institution	29.94	760.5	29.99	761.7	52	11.1	59	nw.	.....	.....	8	.....	4	.....	.....	.....	.....	d. clouds	W. Newcombe.
Valencia, Observatory	30.09	764.3	30.11	764.8	46.6	8.1	73	nw.	27	12.1	.....	.....	8	.....	.....	blank	blank	squally	The Met'g'l Office.
Canadian.																			
Bathurst, N. B	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.16	766.1	30.21	767.3	15	— 9.4	86	nw.	4	1.8	.....	0	0	.....	.....	0	0	clear	H. J. Cundall, C. E.
Chatham, N. B*	30.23	767.8	30.30	769.6	7	—13.9	87	sw.	2	0.9	.....	0	0	.....	.....	0	0	clear	G. A. Blair.
Cornwall, Ontario	29.96	761.0	30.17	766.3	14.0	—10.0	79	ne.	.....	.....	1	.....	10 s	.....	.....	0	0	cloudy	James Smith, M. A.
Dalhousie, N. B	30.07	763.8	30.25	768.3	17.0	— 8.3	.....	w.	.....	.....	1	0	0	.....	.....	0	0	clear	H. A. Johnson.
Father Point, Quebec*	30.29	769.4	30.31	769.9	9	—12.8	91	w.	3	1.3	.....	0	2 s	.....	.....	0	0	clear	J. McWilliams.
Fort Garry, Manitoba*	28.87	733.3	29.74	755.4	18	— 7.8	96	s.	12	5.4	.....	.....	1C n	.....	.....	0	0	cloudy	James Stewart.
Fredericton, N. B	30.29	769.4	30.36	771.1	11.0	—11.7	65	w.	9	4.0	.....	0	0	.....	.....	0	0	clear	Prof. Harrison.
Granton, Ontario	28.80	731.5	29.94	760.5	33.0	0.6	100	s.	.....	.....	1	.....	1C n	.....	.....	0.95	24.1	cloudy	James Grant.
Halifax, N. S*	30.12	765.0	30.27	768.8	18	— 7.8	83	w.	8	3.6	.....	0	0	.....	.....	0	0	clear	A. Allison.
Hamilton, Ontario	29.40	746.7	29.81	757.2	33.7	0.9	91	calm	.....	.....	0	0	0	.....	.....	0.25	6.3	misty	Geo. Dickson, B. A.
Kingston, Ontario*	29.76	755.9	30.11	764.8	28	— 2.2	100	s.	16	7.2	.....	.....	10 n	.....	s.	0.04	1.0	snowing	A. P. Knight, M. A.
Little Glace Bay, N. S	30.03	762.7	30.07	763.8	17.0	— 8.3	87	nw.	.....	.....	4	3 k	0	nw.	.....	0	0	fair	C. H. Rigby.
Montreal, Quebec*	30.06	763.5	30.29	769.4	10	—12.2	63	se.	12	5.4	.....	.....	10 s	.....	.....	0	0	cloudy	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.22	742.2	29.95	760.7	27	— 2.8	88	e.	16	7.2	.....	.....	10 n	.....	se.	0.07	1.8	cloudy	Rev. R. Mosley.
Peterboro, Ontario	29.25	742.9	30.02	762.5	33.7	0.9	89	calm	.....	.....	0	.....	10 n	.....	.....	0.05	1.3	cloudy	J. Dixon, B. A.
Port Dover, Ontario	29.24	742.7	29.95	760.7	36	2.2	90	s.	6	2.7	.....	.....	10 n	.....	sw.	0.41	10.4	threatening	H. Morgan.
Port Stanley, Ontario	29.27	743.4	29.93	760.2	35	1.7	85	se.	12	5.4	.....	.....	10 n	.....	.....	0.44	11.2	light rain	M. Payne.
Quebec, Quebec*	30.02	762.5	30.39	771.9	— 1	—18.3	65	w.	.....	.....	1	0	0	.....	.....	0	0	clear	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.60	751.8	30.09	764.3	17	— 8.3	83	se.	10	4.5	.....	.....	10 n	.....	.....	0.05	1.3	light snow	W. H. McIntyre.
Saugeen, Ontario*	29.13	739.9	29.86	758.4	33	0.6	92	s.	7	3.1	.....	.....	10 ks	.....	.....	0.01	0.3	cloudy	.....
St. Andrews, N. B	30.27	768.8	30.33	770.4	12	—11.1	70	nw.	3	1.3	.....	0	0	.....	.....	0	0	clear	.....
St. John, N. B	30.13	765.3	30.32	770.1	14.0	—10.0	81	n.	5	2.2	.....	0	0	.....	.....	0	0	clear	G. Murdock, C. E.
St. Pierre, N. F	.....	.....	29.76	755.9	10.4	—12.0	.....	n.	.....	.....	6	.....	.....	.....	.....	0	0	.....	N. F. Land, Com't.
Stratford, Ontario	28.56	725.4	29.88	758.9	33.7	0.9	92	s.	3	1.3	.....	.....	10 s	.....	.....	0.176	4.5	cloudy	C. I. Macgregor, M. A.
Sydney, C. B*	30.02	762.5	30.09	764.3	18	— 7.8	76	nw.	10	4.5	.....	0	0	.....	.....	0	0	clear	T. C. Hill, C. E.
Toronto, Ontario*	29.59	751.6	29.99	761.7	33	0.6	88	se.	8	3.6	.....	.....	10 n	.....	.....	0.07	1.8	sleeting	Magnetic Observatory.
Windsor, N. S	30.13	765.3	30.23	767.8	19.0	— 7.2	92	w.	6	2.7	.....	0	0	.....	.....	0	0	clear	Prof. W. R. Butler.
Woodstock, Ontario	28.83	732.3	29.93	760.2	34.3	1.3	81	se.	6	2.7	.....	2 c	8 ks	sw.	.....	0.20	5.1	cloudy	Prof. Wolverton
Yarmouth, N. S*	30.25	768.3	30.32	770.1	22	— 5.6	76	nw.	6	2.7	.....	2 k	0	nw.	.....	0	0	fair	Lt. F. E. Wilmot, R. N.
Sub-series.																			
St. Johns, Newfoundland	29.93	760.2	30.20	767.1	22	— 5.6	.....	nw.	5	2.2	.....	.....	10 n	.....	.....	0.60	15.2	snowing	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	29.99	761.7	30.02	762.5	74.0	23.3	89	ne.	11.5	5.1	.....	0	3 s	.....	.....	0	0	foggy	John Duthie.
Cape Town, C. G. H. Obs'y	29.89	759.2	29.92	760.0	83.0	28.3	45	sse.	19	8.5	.....	9	9	.....	.....	0.550	14.0	.....	The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
CHINESE (*Sub-series*).																			
Hankow	30.35	770.9	30.64	778.2	51.1	10.6	59	ene.	.....	.....	2	.....	10	.....	.....	0	0	.....	N. Titoushkin.
Zi-Ka-Wei, near Shanghai.	30.35	771.0	30.39	771.8	39.7	4.3	51	nw.	2.5	1.1	.....	.....	0	.....	.....	0	0	clear	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	29.39	746.4	29.43	747.6	40.3	4.6	81	sse.	15.7	7	.....	.....	10	.....	.....	.....	.....	.....	Oversergent Fischer.
Fanöe	29.27	743.4	29.29	743.9	42.8	6.0	85	se.	.....	.....	4	.....	10	.....	.....	.....	.....	.....	Overloerer Lauridsen.
Godthaab, Greenland	29.48	748.8	29.52	749.9	12.7	—10.7	.....	n.	.....	.....	3	.....	10	.....	.....	.....	.....	snowing	S. Kleinschmidt.
Stykkisholm, Iceland	29.14	740.2	29.19	741.3	28.0	— 2.2	92	calm	.....	.....	0	.....	8	.....	.....	.....	.....	.....	A. O. Thorlacius.
Thorshavn	29.32	744.7	29.35	745.6	38.8	3.8	49	wsw.	15.7	7	.....	.....	5	.....	.....	.....	.....	.....	Overloerer Bergh.
Westervig	29.21	741.9	29.30	744.2	44.2	6.8	66	calm	.....	.....	0	.....	8	.....	.....	.....	.....	.....	Loerer Oesterbol.
FRENCH.																			
Agen, Normal School	29.23	742.5	29.89	759.1	52.9	11.6	78	nnw.	.....	.....	3	.....	k;kn	.....	w.	0	0	.....	M. Labroue, Director.
Alençon, Normal School	29.13	739.9	29.68	753.9	47.3	8.5	81	sw.	.....	.....	4	.....	n	.....	ne.	0.213	5.4	.....	M. Nicot, Director.
Arras, Engineer School	29.10	739.0	29.35	745.6	40.3	4.6	100	sw.	.....	.....	10	.....	10	.....	.....	0.197	5.0	raining	M. Klein, Commandant.
Avignon, Normal School	29.70	754.4	29.78	756.4	59.7	15.4	58	sw.	.....	.....	2	.....	10	.....	sw.	0.055	1.4	showery	M. Giraud, Director.
Bar-sur-Seine	28.91	734.4	29.47	748.5	46.6	8.1	64	w.	.....	.....	6	.....	10	.....	w.	0.413	10.5	covered	M. Saillard, Director.
Beauvais, Normal School	29.21	742.0	29.48	748.8	44.1	6.7	77	nw.	.....	.....	4	.....	10	.....	nw.	0.28	7.	raining	M. Frère Eugène Mari.
Besançon, Normal School	28.65	727.6	29.53	750.0	49.1	9.5	82	s.	.....	.....	4	.....	10 n	.....	s.	0.24	6.	raining	M. Gobin, Director.
Bordeaux, Observatory	29.67	753.7	29.93	760.3	53.6	12.0	53	nnw.	.....	.....	2	.....	8	.....	nw.	0.091	2.3	very cloudy.	M. Rayet, Director.
Bourges, Normal School	29.15	740.4	29.71	754.5	51.8	11	57	w.	.....	.....	4	.....	kn	.....	w.	0	0	.....	M. Postel, Director.
Brest, Naval Observatory	29.75	755.7	30.00	761.9	50.7	10.4	62	n.	.....	.....	3	.....	2	.....	n.	0.165	4.2	.....	M. de Kermaree, Dir.
Caen, Normal School	29.58	751.4	29.62	752.3	51.1	10.6	46	nw.	.....	.....	6	.....	5	.....	nw.	0.28	7.	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	28.94	735.0	29.29	744.0	49.6	9.8	89	ssw.	.....	.....	4	.....	8	w.	w.	0	0	very cloudy	M. Jadot, Director.
Charleville, Normal School	28.94	735.0	29.45	747.9	42.1	5.6	85	w.	.....	.....	4	.....	10	.....	s.	0.28	7.	raining	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.36	720.4	29.72	754.9	49.6	9.8	59	w.	.....	.....	6	.....	5	.....	.....	0.047	1.2	showery	M. Allnard, Director.
Cluny, Normal School	28.81	731.7	29.65	753.0	48.9	9.4	66	sw.	.....	.....	.....	.....	7	.....	ne.	0.20	5.	.....	M. de Villemontée, Dir.
Commercy, Normal School	28.43	722.2	29.28	743.8	45.5	7.5	69	w.	.....	.....	8	.....	10 n	w.	w.	0	0	covered	Dr. Coulet, Director.
Gap, Normal School	27.20	690.9	29.74	755.5	47.8	8.8	61	sw.	.....	.....	3	0	3 k	.....	sw.	0	0	.....	M. Jeangirard, Director.
Gréasque, du. Rhone	28.64	727.5	29.76	755.9	55.9	13.3	53	w.	.....	.....	3	.....	8	.....	sw.	0	0	.....	M. Kina, Director.
Grenoble, Normal School	28.90	734.1	29.67	753.7	48.6	9.2	81	wnw.	.....	.....	1	.....	10 n	.....	sw.	.....	.....	raining	M. Ablard, Director.
Guéret, Normal School	28.22	716.8	29.83	757.6	45.5	7.5	66	nw.	.....	.....	4	.....	10 n	.....	se.	0.610	15.5	raining	M. Rivoire, Director.
Lamballe, Normal School	29.57	751.0	29.84	757.9	50.0	10	57	nw.	.....	.....	6	.....	5	.....	nw.	0.04	1.	cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.50	749.4	30.08	763.9	51.8	11	75	w.	.....	.....	3	.....	10	.....	.....	0.248	6.3	covered	M. Chauvin, Director.
Lorient, Naval Observatory	29.86	758.5	29.97	761.1	50.0	10.0	79	nw.	.....	.....	4	.....	8	.....	nw.	0.138	3.5	¾ covered	Lt. T. Carre, Director.
Lyon, St. Genis-Laval	28.64	727.4	29.69	754 2	54.7	12.6	72	wnw.	.....	.....	3	.....	8	.....	w.	0.012	0.3	light rain	M. André, Director.
Mans, Normal School	29.41	747.1	29.72	755.0	50.5	10.3	96	n.	.....	.....	4	.....	5	.....	n.	0.350	8.9	cloudy	M. Piboen, Director.
Marseille, Observatory	29.52	749.8	29.79	756.6	59.2	15.1	57	w.	.....	.....	3	.....	10	.....	wnw.	0	0	.....	M. Stephan, Director.
Montlouis l'Instituteur	24.64	625.9	29.48	748.9	48.2	9.0	44	wnw.	9.4	4.2	.....	.....	7	.....	.....	0	0	.....	M. Cave, for Dr. Fines.
Montpellier, Normal School	29.65	753.1	29.78	756.4	59.0	15	64	wnw.	.....	.....	3	.....	5	.....	wnw.	0	0	cloudy	M. Galzin, Director.
Nancy, Normal School	28.53	724.7	29.31	744.5	46.8	8.2	65	ssw.	.....	.....	3	.....	8 kn	.....	ssw.	0.098	2.5	raining	M. Busse, Director.
Nantes, Observatory	29.73	755.2	29.89	759 3	54.7	12.6	53	nw.	.....	.....	2–4	.....	7k;kn	w.	nw.	0	0	.....	M. Larocque, Director.
Perpignan, Observatory	29.71	754.5	29.81	757.2	65.7	18.7	35	n.	29.8	13.3	.....	.....	7	w.	.....	0	0	.....	Dr. Fines, Director.
Pic-du-Midi, Summit	21.06	535.0	.....	.....	23.0	— 5.0	.....	nw.	.....	.....	3	.....	10	.....	nw.	0.524	13.3	snowing	Gen'l de Nansouty, Dir.
Privas, Normal School	28.66	728.0	29.74	755.3	48.7	9.3	82	.....	.....	.....	.....	.....	.....	.....	.....	0	0	.....	M. Tallieu.
Puy de Dôme Obs'y, Summit	24.78	729.4	.....	.....	30.2	— 1.0	100	wnw.	.....	.....	8	.....	10	.....	.....	0.315	8.0	foggy	M. Allnard, Director.
Rochefort, Naval Obs'y	29.87	758.6	29.90	759.4	56.7	13.7	100	wnw.	.....	.....	4	.....	5	.....	nw.	0.024	0.6	½ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.60	751.9	29.82	757.4	51.1	10.6	65	n.	.....	.....	2	.....	1c	.....	.....	0	0	covered	M. Mouliot, Director.
Rodez, Normal School	27.70	703.5	29.86	758.4	45.0	7.2	85	w.	.....	.....	1	.....	10	.....	se.	0.335	8.5	raining	M. Serger, Director.
Rouen, Normal School	29.52	749.7	29.56	750.9	45.0	7.2	71	w.	.....	.....	6	.....	10	.....	.....	0.35	9.	covered	M. Platrier, Director.
Saint Maur, Observatory	29.35	745.6	29.52	749.8	45.3	7.4	72	wnw.	.....	.....	8	.....	10	.....	nw.	0.228	5.8	.....	M. Renou, Director.
Toulouse, Observatory	29.24	742.6	29.96	761.0	53.6	12.0	76	nw.	.....	.....	3	.....	8	.....	.....	0	0	very cloudy.	M. Baillaud, Director.
Versailles, Observatory	29.05	737.9	29.54	750.4	44.6	7.0	71	nw.	.....	.....	8	.....	.....	.....	.....	0.205	5.2	.....	Dr. A. Bergny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.19	741.3	29.48	748.7	45.5	7.5	76	wnw.	.....	.....	4	.....	10	.....	nw.	0.244	6.2	prinkling	M. Marié Davy, Director
GERMAN.																			
Bamberg	28.44	722.4	29.27	743.5	42.8	6.0	84	sw.	.....	.....	5	0	5 k;n	.....	sw.	0.31	8.	showery	Prof. Dr. Hoh.
Berlin	29.13	739.9	29.30	744.3	51.8	11.0	41	e.	.....	.....	3	.....	10	.....	.....	0.031	0.8	raining	Prof. Dr. Arndt.
Breslau	29.00	736.5	29.52	749.8	48.6	9.2	48	sse.	.....	.....	2	.....	3	.....	.....	0.091	2.3	.....	Royal University Obs'y.
Carlsruhe	28.81	731.8	29.23	742.5	50.4	10.2	90	sw.	.....	.....	10	.....	10	sw.	.....	0.067	1.7	raining	Albert Senz.
Cassel	28.41	721.6	29.12	739.7	42.8	6.0	78	s.	.....	.....	6	.....	10	s.	.....	0.587	14.9	.....	Dr. H. Möhl.
Frankfort on the Main	28.82	731.9	29.17	741.0	48.0	8.9	89	s.	.....	.....	2	.....	10	.....	.....	0.335	8.5	.....	Physical Society.
Friedrichshafen	27.99	711.0	29.41	747.0	50.4	10.2	68	sw.	.....	.....	4	.....	8	sw.	.....	0.260	6.6	.....	Wilhelm, Chief Tel.
Hamburg	29.12	739.7	29.22	742.1	43.2	6.2	84	ese.	.....	.....	4	.....	1c	.....	.....	0.008	0.2	raining	E. Preller.
Kiel	29.21	742.0	29.23	742.4	43.0	6.1	81	e.	.....	.....	2	.....	10	.....	.....	0.016	0.4	.....	Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	28.91	734.3	29.33	745.0	42.1	5.6	88	ssw.	.....	.....	6	.....	10	.....	.....	0.311	7.9	raining	H. Leppig, Asst.
Magdeburg	29.09	738.9	29.28	743.7	43.0	6.1	83	sse.	.....	.....	4	.....	10n	.....	.....	1.350	34.3	raining	Dr. Assmann.
Memel	29.54	750.3	29.59	751.5	43.9	6.6	78	sw.	.....	.....	3	8 ck	0	.....	.....	.....	.....	.....	Issermann.
Munich	27.62	701.5	29.45	747.9	43.3	6.3	75	sw.	.....	.....	2	.....	10	w.	.....	0.079	2.0	.....	Central Station
Neufahrwasser	29.54	750.2	29.55	750.6	41.9	5.5	77	s.	.....	.....	2	.....	10	.....	.....	0	0	.....	A. Lothes.
Neustadt, Palatinate	28.67	728.2	29.18	741.2	52.7	11.5	80	sw.	.....	.....	6	.....	10	sw.	.....	0.480	12.2	.....	Dickmether.
Stuttgart	28.35	720.0	29.21	742.0	56.3	13.5	53	sw.	.....	.....	10	.....	7	w.	.....	0.028	0.7	.....	Prof. Dr. Schoder.
Wustrow	29.33	745.0	29.35	745.6	43.0	6.1	84	se.	.....	.....	2	0	5 s	.....	.....	0.063	1.6	.....	Profs. Brandes & Reimer.
GREEK.																			
Athens	29.33	744.9	29.72	754.9	59.5	15.3	.....	sw.	.....	.....	2.0	.....	7 k	.....	.....	0.161	4.1	.....	Schmidt & Wourlisch.
INDIAN.																			
Bellary	28.29	718.6	.....	.....	102.0	38.9	9	nw.	8.5	3.8	.....	0	0	.....	.....	0	0	blue sky	
Kurrachee	29.85	758.1	29.90	759.4	86.0	30.0	48	wsw.	31	13.8	.....	.....	2	.....	.....	0	0	misty	
Deesa	29.28	743.6	29.73	755.0	99.4	37.4	35	wsw.	8.7	3.9	.....	.....	0	.....	.....	0	0	blue sky	
Bombay	29.79	756.7	29.83	757.6	87.7	30.9	60	nw.	10	4.5	.....	.....	0	.....	.....	0	0	blue sky	
Poona, Yarrowda	27.98	710.6	29.78	756.3	95.0	35.0	19	wnw.	25	11.2	.....	.....	0	.....	.....	0	0	blue sky	
Belgaum	27.30	693.5	29.80	756.8	85.0	29.4	59	sw.	10	4.5	.....	.....	1	ne.	.....	0	0	misty	
Lahore	28.94	735.0	29.66	753.4	92.9	33.8	20	calm	1.1	0.5	.....	.....	0	.....	.....	0	0	blue sky	
Roorkee	28.79	731.2	29.67	753.6	87.4	30.8	27	calm	2.9	1.3	.....	.....	3	.....	.....	0	0	.....	
Agra	29.14	740.0	29.68	753.8	99.1	37.3	11	nw.	3.6	1.6	.....	.....	0	.....	.....	0	0	.....	
Nagpur	28.69	728.7	29.69	754.1	100.5	38.1	16	nw.	3.9	1.7	.....	.....	2	w.	.....	0	0	d. clouds	
Jubbulpore	28.39	721.1	29.70	754.3	97.7	36.5	8	n.	2.2	1.0	.....	.....	3	.....	.....	0	0	d. clouds	
Lucknow	29.36	745.7	29.72	755.0	91.1	32.8	18	wnw.	3.8	1.7	.....	.....	0	.....	.....	0	0	blue sky	
Allahabad	29.38	746.2	29.68	753.9	94.7	34.8	17	nw.	2.7	1.2	.....	.....	0	.....	.....	0	0	blue sky	
Patna	29.55	750.7	29.74	755.4	86.4	30.2	45	ne.	5.5	2.5	.....	.....	0	.....	.....	0	0	blue sky	
Hazaribagh	27.71	703.8	29.67	753.6	88.8	31.6	23	n.	10.2	4.6	.....	.....	0	.....	.....	0	0	misty	
Cuttack	29.65	753.1	29.73	755.2	87.1	30.6	64	ssw.	4.2	1.9	.....	.....	3	.....	.....	0	0	d. clouds	
Calcutta, Alipore	29.70	754.5	29.73	755.0	84.8	29.3	64	ssw.	12.0	5.4	.....	.....	3	.....	.....	0	0	d. clouds	
Dhubri	29.65	753.2	29.78	756.3	75.2	24.0	69	ene.	15.8	7.1	.....	.....	8	w.	.....	0.03	0.8	d. clouds	
Chittagong	29.76	755.9	29.85	758.2	80.7	27.1	79	ssw.	8.5	3.8	.....	.....	7	.....	.....	0	0	d. clouds	
Sibsagar	29.56	750.7	29.90	759.4	69.9	21.1	85	ne.	3.6	1.6	.....	.....	10	w.	w.	0.15	3.8	d. clouds	
Jeypore	28.30	718.9	29.69	754.1	98.6	37.0	26	nw.	0.1	2.7	.....	.....	4	nw.	.....	0	0	d. clouds	
Zanzibar, Africa	29.88	758.9	.....	.....	80.6	27.0	78	n.	4.1	1.8	.....	.....	7	.....	.....	0.10	2.5	gloomy	
Trichinopoly	29.53	750.0	.....	.....	98.4	36.9	29	se.	2	0.9	.....	.....	0	.....	.....	0	0	blue sky	
ITALIAN.																			
Udine	29.30	744.3	29.71	754.7	53.1	11.7	78	calm	0	0	.....	.....	10	.....	.....	0.126	3.2	.....	Prof. Giovanni Clodig.
Milan	29.16	740.7	29.68	753.8	57.4	14.1	50	s.	3.8	1.7	.....	.....	8	wsw.	.....	0	0	.....	Prof. Schiaparelli.
Padua	29.57	751.1	29.68	753.9	54.9	12.7	70	sse.	10.5	4.7	.....	.....	10	w.	.....	0.138	3.5	.....	Prof. Dott. Lorenzoni.
Moncalieri	28.74	730.0	29.65	753.2	55.2	12.9	52	e.	5.6	2.5	.....	.....	2	nw.	.....	0	0	.....	Prof. P. F. Denza.
Genoa	29.50	749.2	29.69	754.1	54.9	12.7	69	se.	9.8	4.4	.....	.....	10	s.	.....	0	0	.....	Prof. G. M. Garibaldi.
Mondovi	27.73	704.4	29.65	753.1	51.8	11.0	43	w.	.....	.....	4	.....	1	w.	.....	0	0	.....	Prof. D. O. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
ITALIAN.—Continued.																			
Pesaro	29.62	752 4	29.67	753.6	54.5	12.5	73	sw.	9.8	4.4	.....	.....	10	.....	.....	0.130	3.3	.....	Prof. Luigi Guidi.
Florence	29.48	748.9	29.74	755.4	58.1	14.5	63	w.	.....	.....	2	.....	10	.....	.....	0.035	0.9	.....	Prof. Costantino Pitter.
Leghorn	29.65	753.0	29.73	755.2	56.5	13.6	57	s.	1.3	0.6	.....	.....	10	.....	.....	0	0	.....	Prof. P. Monte.
Rome	29.58	751.2	29.75	755.6	61.9	16.6	51	wsw.	6.3	2.8	.....	.....	10	.....	.....	0	0	.....	Prof. P. S. Ferrari.
Lecce	29.52	749.7	29.77	756.1	59.4	15.2	56	sw.	7.4	3.3	.....	.....	7	nw.	.....	0	0	.....	Prof. O. de Giorgi.
Cosenza	28.90	734.0	29.78	756.5	54.7	12.6	72	ssw.	3.1	1.4	.....	.....	9	s.	.....	0.110	2.8	.....	Prof. D. Conti.
Cagliari	29.58	751.4	29.78	756.3	54.3	12.4	90	nw.	.....	.....	6	.....	0	.....	.....	0.067	1.7	.....	Prof. A. Pacinotti.
Palermo	29.56	750.8	29.81	757.2	61.7	16.5	59	nw.	7.4	3.3	.....	.....	9	.....	.....	0.303	7.7	.....	Prof. G. Ciacciatore.
Syracuse	29.72	755.0	29.77	756.2	61.0	16.1	59	e.	7.4	3.3	.....	.....	10	wnw.	.....	0.039	1.0	.....	Prof. Vincenzo Guiliano.
Sub-series.																			
Naples, S. R	29.24	742.7	29.76	755.9	57.2	14.0	75	sw.	2.5	1.1	.....	.....	5	w.	.....	0.197	5.0	.....	Prof. T. Brioschi.
Stelvio	21.76	552 7	.....	.....	25.5	— 3.6	84	sw.	.....	.....	6	.....	8	.....	.....	0	0	covered	Prof. P. F. Denza.
Valdobbia	21.76	552.8	.....	.....	30.4	— 0.9	69	n.	.....	.....	2	.....	10	.....	.....	0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Aomori	29.31	744.5	29.34	745.2	35.0	1.7	92	nnw.	10.9	4.9	.....	.....	10 n	.....	.....	0.432	11.0	sleeting	K. Ogawa.
Hakodate	29.34	745.2	29.35	745.5	35.5	1.9	84	n.	18.0	8.0	.....	.....	6	.....	.....	0.305	7.8	cloudy	
Hiroshima, I. M. Obs'y	29.88	758.9	29.90	759.4	41.3	5.2	86	nw.	1.1	0.5	.....	.....	7cs;ck	0	w.	inap.	inap.	cloudy	K. Sasaki.
Kanazawa	29.70	754.4	29.81	757.2	40.7	4.8	76	nw.	6.2	2.8	.....	ck	10 ks	.....	w.	0.275	7.0	overcast	S. Endo.
Kioto	29.64	752.8	29.82	757.4	42.0	5.6	78	nw.	11.0	4.9	.....	ck	8 n	.....	.....	0	0	light rain	M. Tojima.
Kochi	29.87	758.7	29.89	759.2	47.1	8.4	56	w.	13.3	5.9	.....	6 ck	0	w.	.....	0	0	fair	
Nagasaki, I. M. Obs'y	29.84	757.9	30.05	763.3	42.6	5.9	80	nw.	9.7	4.3	.....	.....	10 n	.....	.....	0.120	3.0	light rain	S. Takehayashi.
Niigata	29.64	752.8	29.68	753.9	41.8	5.4	75	w.	18.5	8.3	.....	10 ck	0	w.	.....	0.175	4.4	cloudy	
Nobiru	29.43	747.5	29.44	747.8	45.3	7.4	59	w.	20.6	9.2	.....	ck	9 ks;s	.....	.....	0.035	0.9	cloudy	H. Midzushina.
Supporo	.....	.....	.....	.....	31.5	— 0.3	92	nw.	4.8	2.1	.....	.....	10	.....	.....	inap.	inap.	snowing	
Tokei Obs'y, Yeddo	29.44	747.8	29.51	749.5	49.9	9.9	60	nw.	9.7	4.3	.....	3 cs	0	sw.	.....	0.178	4.5	fair	The Staff.
Wakayama	29.80	756.9	29.86	758.4	45.9	7.7	64	nw.	8.7	3.9	.....	0	0 ks	.....	.....	0	0	clear	Y. Kuwamuea.
MAURITIUS.																			
Mauritius Observatory	29.78	756.4	29.97	761.2	77.0	25.0	76	se.	20.0	8.9	.. ..	.....	10 k;	.....	.....	0.51	13.0	cloudy	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.73	602.7	29.95	760.7	58.1	14.5	69	s.	.....	.....	.....	0	6	.....	ne.	0	0	fair	Vicente Fernandez.
Leon	24.44	620.8	30.14	765.7	57.7	14.3	87	wnw.	.....	.....	1	0	5	.....	w.	0.095	2.4	foggy	Prof. M. Leal.
Mazatlan	29.81	757.1	30.07	763.7	65.5	18.6	89	ene.	1.6	0.8	.....	7 cs	0	sw.	.....	inap.	inap.	very cloudy	F. Quijano, C. E.
Mexico, Central Obs'y	23.15	587.9	30.23	767.8	54.0	12.2	72	calm	0	0	.....	0	3	.....	.....	0	0	fine	M. Tena, M. D.
Morelia	24.30	617.3	30.45	773.4	58.3	14.6	64	se.	.....	.....	3	4	2	e.	e.	0	0	½ clouded	The Staff.
Pabellon, Aguascallentes	23.98	609.0	29.95	760.8	59.0	15.0	69	.....	.....	.....	.....	0	9	.....	sw.	0	0	cloudy	M. V.de Leon, M. E.
Puebla, Catholic Institute	23.43	595.2	30.24	768.1	50.9	10.5	55	calm	0	0	.....	0	0	.....	.....	0	0	clear	Prof. P. Spina.
San Luis Potosi	24.22	615.3	30.19	766.7	59.0	15.0	67	wsw.	.....	.....	1	.....	10	.....	e.	0	0	covered	G. Barroeta, M. D.
Vera Cruz	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Zacatecas	22.61	573.5	30.24	768.1	51.6	10.9	77	sw.	9.0	4.0	.....	0	0	.....	.....	0	0	fine	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.16	740.6	29.16	740.6	39.7	4.3	.....	nnw.	.....	.....	7	.....	.....	.....	.....	0.421	10.7	.....	
Groningen	29.07	738.4	29.13	739.8	39.9	4.4	....	sse.	.....	.....	4	.....	.....	.....	.....	0.465	11.8	.....	
Helder	29.11	739.3	29.11	739.3	39.9	4.4	.....	nne.	.....	.....	5	.....	.....	.....	.....	0.390	9.9	.....	
Hellevoetsluis	29.04	737.0	29.04	737.6	41.5	5.3	96	n.	.....	.....	4	.....	.....	.....	.....	0.276	7.0	.....	
Utrecht	28.93	734.8	28.98	736.0	43.0	6.1	95	nw.	.....	.....	3	.....	8	.....	.....	1.335	33.9	very cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.17	741.1	29.24	742.7	44.6	7.0	74	s.	13	6	.....	.....	7	.....	.....	0.276	7.0	.....	
Brono	29.10	739.1	29.14	740.1	33.8	1.0	81	wnw.	18	8	.....	.....	10	.....	.....	0.051	1.3	rain & snow	
Christiania	29.09	738.8	29.23	742.5	49.1	9.5	45	sse.	4	2	.....	.....	3	.....	.....	0.004	0.1	.....	
Gjæsvær	29.04	737.5	29.06	738.1	34.9	1.6	.....	se.	16	7	.....	.....	10	.....	.....	.....	.....	.....	
Lodingen	28.93	734.9	28.98	736.1	37.4	3.0	74	sw.	.. ..	.....	2	.....	9	.....	.....	0.039	1.0	.....	
PORTUGUESE.																			
Angra, Azores	.....	.....	.....	.....	56.5	13.6	69	w.	1.8	0.8	.....	.....	4	.....	.....	0	0	.....	Dr. J. A. Sampaio.
Campo Major	29.03	737.3	30.01	762.3	68.9	20.5	53	wnw.	4.3	1.9	.....	.....	1	.....	.....	0	0	.....	Dr. A. M. R. dos Santos.
Funchal, Maderia	30.10	764.5	30.19	766.7	65.3	18.5	70	sw.	0	0	.....	.....	4	.....	.....	0	0	.....	Capt. D. A. de Cunha.
Lisbon, Observatory	29.77	756.2	30.13	765.3	59.9	15.5	60	n.	31.1	13.9	.....	.....	1	.....	.....	0	0	..	The Staff.
Ponta Delgada, Azores	30.47	773.9	30.54	775.7	59.0	15.0	60	ne.	2.5	1.1	.....	.....	3	.....	.....	0	0	.....	
Saint Paul de Loando	29.62	752.3	29.82	757.3	82.0	27.8	92	w.	0.7	0.3	.....	.....	2	se.	.....	0	0	.....	
Serra da Estrella	25.32	643.1	30.12	765.1	42.3	5.7	85	nnw.	18.1	8.1	.....	.....	7	.....	.....	0	0	.....	
RUSSIAN.																			
Akmolinski	29.08	738.7	30.26	768.5	12.4	—10.9	86	ssw.	7	3	.....	0	0	.....	.....	0	0	.....	Major K. Lasarew.
Archangel	29.67	753.7	29.69	754.2	38.7	3.7	78	ese.	13	6	.....	.....	0	.....	.....	0	0	.....	Capt. Sselliwerstow.
Astrakhan	30.42	772.7	30.34	770.6	43.9	6.6	42	se.	9	4	.....	0	7 s	.....	.....	0	0	light clouds	Capt. Wisganow.
Barnaul	29.70	754.3	30.23	767.9	21.9	— 5.6	73	wsw.	9	4	.....	.....	3	.....	.....	0	0	light clouds	Meteorological Obs'y.
Dorpat	29.28	743.6	29.52	749.8	42.1	5.6	89	sse.	4	2	.....	.....	10 n	.....	.....	0.205	5.2	.....	Observatory.
Ekaterinburg	29.00	730.7	30.00	762.0	32.2	0.1	78	w.	9	4	.....	.....	10	.....	.....	0.004	0.1	.....	Meteorological Obs'y.
Kasan	29.79	756.6	30.07	763.7	39.4	4.1	63	ssw.	11	5	.....	.....	10	.....	.....	0	0	.....	Observatory.
Kertch	29.91	759.6	29.93	760.1	40.9	8.3	74	se.	4	2	.....	0	5 s	.....	.....	0	0	.....	Lagorto & Sastyrex.
Kieff	29.08	738.6	29.72	754.8	45.9	7.7	42	se.	31	14	.....	c	10 ks	.....	.....	0	0	.....	Observatory.
Lugan	29.91	759.7	30.11	764.9	53.8	12.1	26	se.	34	15	.....	.....	0	.....	.....	0	0	.....	Meteorological Obs'y
Moscow	29.39	746.6	29.87	758.7	50.4	10.2	45	ssw.	7.8	3.5	.....	0	0	.....	.....	0	0	.....	Meteorological Obs'y.
Nikolaiev	29.80	756 9	29.87	758.7	52.2	11.2	60	s.	13	6	.....	.....	10 s;n	.....	.....	0	0	light clouds	Capt. Kurdakow.
Nikolaievsk, on the Amoor	29.77	756.1	29.85	758.3	27.0	— 2.8	90	calm	0	0	.....	.....	10	.....	.....	0.106	2.7	snowing	Lieut. Iwanow.
Pekin, China	30.20	767.0	30.34	770.6	41.9	5.5	20	nw.	18	8	.....	0	0	.....	.....	0	0	.....	Physical Observatory
St. Petersburg	29.47	748.5	29.48	748.9	44.6	7.0	82	s.	9	4	.....	.....	10 n	.....	.....	0.130	3.3	.....	Central Physical Obs
Tashkend, Laboratory	28.52	724.4	30.12	765.0	49.3	9.6	76	calm	0	0	.....	.....	10	.....	.....	0.091	2.3	.....	Teich, A. M.
Tiflis	28.77	730.7	30.24	768.1	40.1	4.5	65	e.	4	2	.....	.....	9 k	.....	.....	0.024	0.6	.....	Physical Observatory
Vladivostok	29.69	754.1	29.70	755.8	31.3	— 0.4	90	n.	7	3	.....	0	3 k	.....	.....	0	0	.....	
Warsaw	29.16	740.6	29.58	751.4	45.3	7.4	65	sse.	4	2	.....	ck	9 ks	.....	.....	.....	.....	.....	Astronomical Obs'y
Wilna	29.16	740.6	29.58	751.4	42.4	5.8	81	nw.	2	1	.....	.....	10	.....	.....	0.177	4.5	heavy cl'ds.	Berg, Assistant.
Yeniseisk	29.79	756.6	30.09	764.3	27.9	— 2.3	76	calm	0	0	.....	.....	0	.....	.....	0	0	.....	M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	29.70	754.4	29.80	757.0	66.9	19.4	61	sw.	4.3	1.9	.....	.....	2	.....	.....	0.059	1.5	clouds	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.07	763.8	30.13	765.3	54.7	12.6	87	nw.	3.4	1.5	.....	.....	10	.....	.....	0.244	6.2	covered	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.12	688.8	30.15	765.8	45.5	7.5	90	n.	5.8	2.6	.....	.....	10	.....	.....	0	0	covered	Domingo Martin.
Madrid, Royal Obs'y	27.74	704.6	29.91	759.7	68.0	20.0	27	nw.	15.4	6.9	.....	0	0	.....	.....	0	0	clear	The Staff.
Murcia, Met. Obs'y	29.78	756.5	29.93	760.3	74.7	23.7	52	wsw.	3.6	1.6	.....	0	0	.....	.....	0	0	clear	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.27	743.5	30.19	766.7	54.5	12.5	65	n.	21.0	9.4	.....	.....	7	.....	.....	0.130	3.3	cloudy	R. Gil Vallanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I	30.10	764.4	30.17	766.1	70.3	21.3	72	ese.	10.3	4.6	.....	0	0	.....	.....	0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.95	760.8	30.01	762.3	80.4	26.9	67	ese.	4.4	2.0	.....	0	8	.....	.....	0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.91	759.7	30.00	762.1	71.2	21.8	54	se.	3.3	1.5	.....	0	0	.....	.....	0	0	.....	Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	30.04	763.1	30.13	765.4	75.2	24.0	72	se.	11.9	5.3	.....	3 cs	4 k	se.	se.	0.047	1.2	d. clouds	Manuel Maeu.
Tuguegarao, Philippine Id's	29.92	760.0	30.05	763.3	75.0	23.9	88	nw.	11.8	5.3	.....	.....	10 ku	.....	nw.	0.08	2.0	covered	José L. Yrastorza.
SWEDISH																			
Haparanda	29.18	741.1	29.22	742.1	34.9	1.6	96	s.	.....	.....	2	.....	10	.....	.....	0.264	6.7	.....	
Umea	29.16	740.6	29.21	741.9	37.4	3.0	93	sw.	.....	.....	2	.....	9	.....	.....	0	0	.....	
Hernosand	29.13	739.8	29.18	741.1	41.5	5.3	76	calm	.....	.....	0	.....	0	.....	.....	0.155	3.9	.....	
Stockholm	29.19	741.4	29.37	745.9	45.0	7.2	55	wsw.	.....	.....	2	.....	8	.....	.....	0.008	0.2	.....	
Wisby	29.37	746.1	29.43	747.6	40.3	4.6	81	w.	.....	.....	4	.....	3	.....	.....	0.024	0.6	.....	
Sub-series.																			
Upsala	29.23	742.4	29.32	744.6	44.6	7.0	59	sw.	14.5	6.5	.....	.. ..	5	.....	wsw.	0	0	.....	S. G. Fineman.
SWISS.																			
Geneva	28.21	716.5	29.65	753.0	49.5	9.7	73	ssw.	.....	.....	8	.....	.....	.....	.....	0.185	4.7	raining	The Observatory

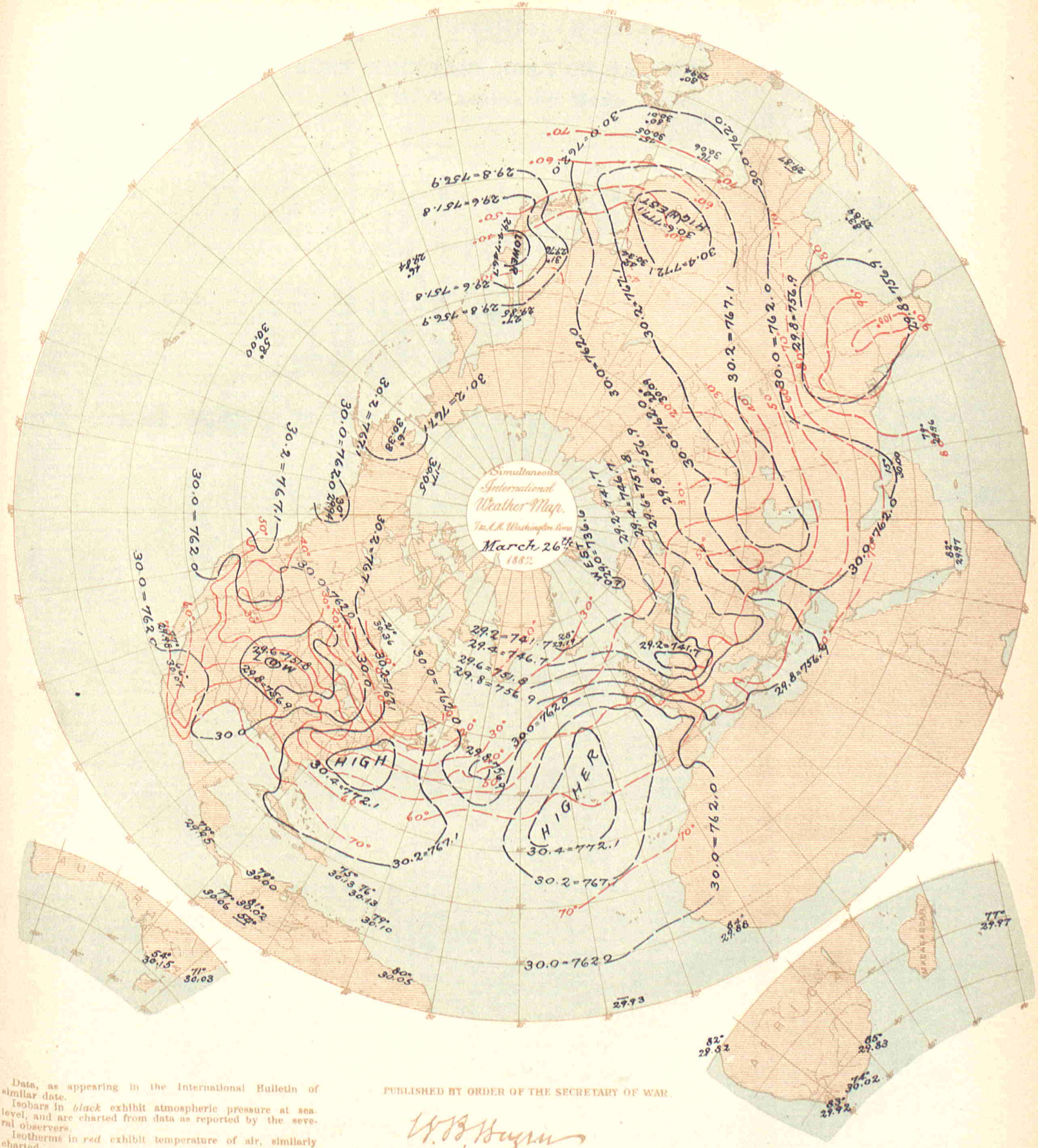
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
TURKISH.																			
Constantinople	.....	.....	29.70	754.3	55.0	12.8	78	sw.	8	3.5	.....	.....	10	.....	sw.	0	0	.....	The Observatory.
Valona	.....	.....	29.81	757.1	57.0	13.9	.....	sw.	.....	.....	1	.....	2	.....	.....	1.77	45.	slightly cld'y	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	29.96	760.9	63.9	17.7	65	w.	.....	.....	1	10 cs	0	sw.	.....	0	0	....	Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	30.27	768.8	30.36	771.1	33	0.6	78	s.	10	4.5	.....	.....	10 n	.....	.....	0.01	0.3	light snow..	J. O. Barnes.
Alpena, Michigan	29.14	740.1	29.84	757.9	32	0.0	88	s.	6	2.7	.....	.....	10 s	.....	.....	0.08	2.0	cloudy	Jas. J. Fitzgerald.
Atlanta, Georgia	29.09	738.9	30.30	769.6	48.0	8.9	93	e.	13	5.8	.....	3 k	7 s	se.	se.	0	0	cloudy	H. Hall.
Atlantic City, New Jersey	30.39	771.9	30.40	772.1	37.8	3.2	72	s.	14	6.3	.....	7 k	0	s.	.....	0	0	fair.....	Jas. M. Watson.
Augusta, Georgia	30.19	766.8	30.39	771.9	49.0	9.4	71	se.	2	0.9	.....	0	5 s	.....	.....	0	0	fair.....	John Healy.
Baltimore, Maryland	30.31	769.9	30.36	771.1	37	2.8	82	s.	7	3.1	.....	hz.	0	.....	.....	0	0	clear.....	Robert Seyboth.
Barnegat, New Jersey	30.37	771.4	30.39	771.9	36.7	2.6	87	s.	18	8.0	.....	3 cs	4 k	nw.	nw.	0	0	fair	Chas. F. Merritt.
Bismarck, Dakota	27.85	707.4	29.77	756.1	26	— 3.3	88	e.	2	0.9	.....	5 cs	0	w.	.....	0	0	fair.....	Cyrus Cramer.
Boise City, Idaho	27.13	689.1	30.05	763.3	36	2.2	82	w	2	0.9	.....	.....	10 s	.....	calm	0	0	cloudy	B. E. Light.
Boston, Massachusetts	30.28	769.1	30.44	773.2	25.0	— 3.9	64	w.	5	2.2	.....	10 cs	0	.....	.....	0	0	cloudy	O. B. Cole.
Brownsville, Texas	29.83	757.7	29.88	758.9	71	21.7	94	s.	12	5.4	.....	.....	10 s	.....	s.	0.01	0.3	cloudy	J. C. Galloway.
Buffalo, New York	29.21	741.9	30.00	762.0	39.5	4.2	81	s.	11	4.9	.....	.....	10 n	.....	.....	0.21	5.3	light rain.....	Wm. Finn.
Burlington, Vermont	29.99	761.7	30.30	769.6	20.7	— 6.3	57	s.	9	4.0	.....	.....	10 s	.....	s.	0	0	cloudy.....	G. C. Schaeffer.
Cairo, Illinois	29.59	751.6	30.01	762.2	54.6	12.6	70	s.	12	5.4	.....	.....	10 s	.....	s.	0	0	cloudy.....	W. H. Ray.
Campo, California	27.39	695.7	30.00	762.0	44	6.7	76	sw.	1	0.4	.....	.....	10 s	.....	sw.	0	0	cloudy.....	W. H. Clendenon.
Camp Thomas, Arizona	27.02	686.3	29.80	756.9	50.5	10.3	82	sw.	.....	.....	2	.....	10 s	.....	.....	0.31	7.9	cloudy	J. T. Fitzgerald.
Cape Henry, Virginia	30.43	772.9	30.45	773.4	40	4.4	73	s.	9	4.0	.....	0	0	.....	.....	0	0	clear.....	J. E. Lanouette.
Cape May, New Jersey	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. Bolten.
Castroville, Texas	29.05	737.9	29.88	758.9	67	19.4	93	s.	2	0.9	.....	.....	10 n	.....	.....	0.53	13.5	light rain....	T. Jones.
Cedar Keys, Florida	30.20	767.1	30.22	767.6	62	16.7	78	e.	9	4.0	.....	10 ck	sk.	.....	.....	0	0	cloudy.....	F. W. Mixer.
Champaign, Illinois	29.02	737.1	29.88	758.9	48.4	9.1	67	s.	14	6.3	.....	.....	10 s	.....	s.	0	0	cloudy.....	L. A. Welsh.
Charleston, S. Carolina	30.29	769.4	30.35	770.9	56	13.3	86	e.	7	3.1	.....	3 c	0	nw.	.....	0	0	clear.....	J. H. Smith.
Charlotte, N. Carolina	29.48	748.8	30.36	771.1	40.0	4.4	82	sw.	2	0.9	.....	0	hz.	.....	.....	0	0	dense haze..	D. O. Donoghue.
Chattanooga, Tennessee	29.42	747.3	30.27	768.8	48.0	8.9	74	s.	3	1.3	.....	5 cs	hz.	w.	.....	0	0	fair.....	B. L. Goulding.
Cheyenne, Wyoming	23.68	601.5	29.86	758.4	32.0	0.0	47	nw.	20	8.9	.....	.....	10 s	.....	.....	0	0	cloudy	E. McGovern.
Chicago, Illinois	29.11	739.4	29.85	758.2	49.6	9.8	78	s.	6	2.7	.....	.....	10 n	.....	.....	0.44	11.2	light rain....	J. Mitchell.
Chincoteague, Virginia	30.40	772.1	30.42	772.7	40	4.4	65	s.	16	7.2	.....	0	2 s	.....	.....	0	0	clear.....	F. C. Pratz.
Cincinnati, Ohio	29.40	746.7	30.09	764.3	50.1	10.1	52	se.	4	1.8	.....	0	5 ks	.....	sw.	0	0	fair	R. B. Watkins.
Cleveland, Ohio	29.18	741.2	29.96	761.0	47	8.3	43	s.	14	6.3	.....	7 c	hz.	.....	.....	inap.	inap.	fair.....	J. B. Newlin.
Coleman City, Texas	28.01	711.4	29.86	758.4	61	16.1	90	sw.	12	5.4	.....	0	8 ks	.....	sw.	0.01	0.3	cloudy.....	L. Dorman.
Columbus, Ohio	29.16	740.7	30.06	763.5	42	5.6	65	s.	9	4.0	.....	5 cs	5 s	.....	.....	0	0	cloudy.....	D. Cuthbertson.
Concho, Texas	27.88	708.1	29.85	758.2	58	14.4	93	sw.	12	5.4	.....	0	0	.....	.....	0	0	clear.....	W. W. McConihe.
Davenport, Iowa	29.05	737.9	29.74	755.4	53	11.7	72	sw.	5	2.2	.....	.....	10 n	.....	calm	0.08	2.0	light rain....	R. R. Martin.
Dayton, Washington T'y	28.24	717.3	30.05	763.3	39.6	4.2	87	sw.	6	2.7	.....	0	2 s	.....	.....	0	0	clear.....	H. Clifford.
Deadwood, Dakota	25.03	635.8	29.87	758.7	35	1.7	92	calm	0	0	.....	0	5 s	.....	w.	0.03	0.8	fair.....	G. W. Scott.
Decatur, Texas	.....	.....	.....	.....	60	15.6	54	w.	12	5.4	.....	0	2 s	.....	sw.	0	0	clear.....	D. J. Carr.
Delaware Breakwater, Del.	30.38	771.6	30.40	772.1	38	3.3	72	s.	21	9.4	.....	7 c;cs	0	w.	.....	0	0	fair.....	A. Schneider.
Denison, Texas	28.97	735.8	29.80	756.9	61.3	16.3	93	s.	12	5.4	.....	.....	10 n	.....	.....	inap.	inap.	light rain....	J. McGlone.
Denver, Colorado	24.38	619.2	29.82	757.4	36.0	2.2	46	s.	6	2.7	.....	.....	10 s	.....	calm	0	0	cloudy	F. M. Neal.
Des Moines, Iowa	28.70	729.0	29.66	753.4	56	13.3	80	sw.	7	3.1	.....	.....	10 s	.....	sw.	0.07	1.8	cloudy	F. W. Conrad.
Detroit, Michigan	29.15	740.4	29.90	759.4	46.0	7.8	66	s.	5	2.2	.....	.....	10 s	.....	calm	0.21	5.3	cloudy.....	C. F. R. Wappenhans.
Dodge City, Kansas	26.85	682.0	29.58	751.3	47	8.3	71	s.	14	6.3	.....	0	0	.....	.....	0	0	clear.....	E. A. Thomas.
Dubuque, Iowa	28.97	735.8	29.72	754.9	48.3	9.1	77	s.	3	1.3	.....	.....	10 s	.....	calm	0.09	2.3	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.05	737.9	29.79	756.7	21	— 6.1	70	ne.	1	0.4	.....	0	3 s	.....	calm	0	0	clear.....	N. B. Conger.
Eagle Pass, Texas	29.12	739.6	29.94	760.5	60.1	15.6	87	e.	1	0.4	.....	4 ck	0	sw.	.....	0	0	fair.....	F. Belford.
Eagle Rock, Idaho	25.19	639.8	30.06	763.5	30	— 1.1	80	sw.	5	2.2	.....	5 cs	2 s	sw.	w.	0.11	2.8	fair	J. M. Clifford.
Eastport, Maine	30.27	768.8	30.34	770.6	15	— 9.4	48	nw.	15	6.7	.....	0	0	.....	.....	0	0	clear.....	J. H. Melton.
El Paso, Texas	26.11	663.2	29.91	759.7	47	8.3	66	nw.	4	1.8	.....	0	0	.....	.....	0.42	10.7	clear.....	J. F. Marshall.
Erie, Pennsylvania	29.22	742.2	29.99	761.7	43	6.1	60	s.	19	8.5	.....	.....	10 s	.....	.....	0.19	4.8	cloudy.....	R. H. Paxton.
Escanaba, Michigan	29.13	739.9	29.84	757.9	30	— 1.1	88	calm	0	0	.....	.....	10 s	.....	.....	0.03	0.8	cloudy.....	O. Dill.
Florence, Arizona	28.29	718.6	29.86	758.4	57.1	13.9	53	sw.	8	3.6	.....	2 cs	5 s	sw.	w.	inap.	inap.	fair	R. R. Herman.
Fort Apache, Arizona	24.90	632.4	29.92	760.0	39	3.9	82	e.	5	2.2	.....	0	6 s	.....	w.	0.14	3.6	fair.....	W. O. Barnes.
Fort Assinnaboine, Montana	26.91	683.5	29.92	760.0	34	1.1	71	ne.	7	3.1	.....	.....	10 n	.....	w.	0.03	0.8	light snow..	B. O. Lenoir.
Fort Bennett, Dakota	28.08	713.2	29.78	756.4	36	2.2	89	calm	0	0	.....	.....	10 n	.....	.....	0.04	1.0	light rain..	T. Gibson.
Fort Benton, Montana	26.95	684.5	29.93	760.2	38	3.3	64	sw.	6	2.7	.....	.....	10 ks	.....	sw.	0.06	1.5	cloudy.....	S. Wheaton.
Fort Buford, Dakota	27.68	703.1	29.82	757.4	34	1.1	71	calm	0	0	.....	.....	10 s	.....	calm	0	0	cloudy.....	A. H. Bell.
Fort Custer, Montana	26.58	675.1	29.91	759.7	36	2.2	82	w.	7	3.1	.....	.....	10 s	.....	calm	inap.	inap.	cloudy..	V. Verge.
Fort Davis, Texas	25.02	635.5	29.90	759.4	42	5.6	71	s.	2	0.9	.....	0	0	.....	.....	0	0	clear.....	J. Williams.
Fort Elliott, Texas	.....	.....	.....	.....	51	10.6	48	sw.	16	7.2	.....	5 c	0	sw.	.....	0.22	5.6	fair.....	W. J. Cundall.
Fort Gibson, Indian T'y	29.13	739.9	29.72	754.9	59.0	15.0	93	se.	14	6.3	.....	.....	10 s	.....	s.	0.02	0.5	cloudy	J. B. Campbell.
Fort Grant, Arizona	25.03	635.8	29.86	758.4	45	7.2	65	sw.	7	3.1	.....	.....	10 s	.....	.....	0.05	1.3	cloudy	T. J. Macgowan.
Fort Griffin, Texas	28.46	722.9	29.81	757.2	60	15.6	81	s.	2	0.9	.....	.....	10 s	.....	calm	0	0	cloudy.....	G. H. Hayne.
Fort Keogh, Montana	27.18	690.4	29.83	757.7	36	2.2	64	sw.	6	2.7	.....	6 cs	0	sw.	.....	0	0	fair.....	W. B. Stockman.
Fort Macon, North Carolina	30.42	772.7	30.43	772.9	45	7.2	83	ne.	7	3.1	.....	hz.	hz.	calm	calm	0	0	light haze..	L. Leonardy.
Fort McKavett, Texas	27.63	701.8	29.95	760.7	61.1	16.2	90	sw.	16	7.2	.....	0	3 ks	.....	sw.	0	0	fair.....	J. E. Thatcher.
Fort Missoula, Montana	26.57	674.9	29.95	760.7	33	0.6	88	ne.	2	0.9	.....	.....	10 s	.....	.....	0	0	threatening..	J. H. Jones.
Fort St. Michaels, Alaska	30.35	770.9	30.38	771.6	— 6	—21.1	100	n.	7	3.1	.....	0	5 ks	.....	s.	inap.	inap.	fair	A. P. Leavitt.
Fort Shaw, Montana	26.12	663 4	29.92	760.0	34	1.1	71	w.	6	2.7	.....	5 cs	0	.....	.....	0.05	1.3	fair.....	A. L. Mathews.
Fort Sill, Indian Territory	28.40	721.3	29.69	754.1	59	15.0	90	s.	28	12.5	.....	.....	10 s	.....	s.	0.38	9.7	cloudy	T. Cleary.
Fort Stevenson, Dakota	27.83	706.9	29.81	757.2	19	— 7.2	87	ne.	4	1.8	.....	.....	10 s	.....	calm	0	0	cloudy	W. Burrows.
Fort Verde, Arizona	.....	.....	.....	.....	48.3	9.1	58	w.	.....	.....	1	0	0	.....	.....	0	0	clear.....	D. Brooks.
Fort Washakie, Wyoming	24.17	613.9	.....	.....	28.8	— 1.8	65	w.	5	2.2	.....	0	3 k	.....	.....	inap.	inap.	clear.....	T. M. Ambler.
Fredericksburg, Texas	28.08	713.2	29.84	757.9	64	17.8	93	sw.	11	4.9	.....	5 k	0	sw.	.....	0.01	0.3	fair.....	H. S. Miles.
Galveston, Texas	29.88	758.9	29.92	760.0	69	20.6	95	s.	14	6.3	.....	.....	10 ks	.....	sw.	0.27	6.9	threatening..	E. O'C. MacInerney.
Grand Haven, Michigan	29.10	739.1	29.80	756.9	45.5	7.5	88	s.	11	4.9	.....	.....	10 n	.....	sw.	0.78	19.8	thund'r st'm.	W. A. Reid.
Hatteras, North Carolina	30.44	773.2	30.46	773.7	45	7.2	76	e.	6	2.7	.....	0	0	.....	.....	0	0	clear.....	R. M. Crawford.
Helena, Montana	25.58	649.7	29.95	760.7	38	3.3	72	sw.	14	6.3	.....	.....	10 s	.....	sw.	0.01	0.3	cloudy.....	N. C. Smith.
Henrietta, Texas	28.72	729.5	29.70	755.9	61	16.1	100	s.	6	2.7	.....	.....	10 n	.....	.....	0.05	1.3	light rain....	J. W. Byram.
Huron, Dakota	28.28	718.3	29.76	755.9	31.8	— 0.1	81	n.	6	2.7	.....	.....	10 s	.....	.....	0	0	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.12	739.6	29.96	761.0	50	10.0	64	s.	6	2.7	.....	7ck;hs	0	c;w	.....	0	0	fair.....	O. Schutze
Indianola, Texas	29.86	758.4	29.89	759.2	70.6	21.4	100	s.	16	7.2	.....	0	8 k;ks	.....	.....	1.62	41.1	cloudy.....	I. A. Reed.
Jacksboro, Texas	28.58	725.9	29.80	756.9	61	16.1	100	s.	10	4.5	.....	.....	10 n	.....	s.	0.06	1.5	light rain....	J. P. Sherry.
Jacksonville, Florida	30.23	767.8	30.28	769.1	61	16.1	87	ne.	3	1.3	.....	6 cs	4 s	w.	.....	0	0	cloudy	J. W. Smith.
Keokuk, Iowa	29.04	737.6	29.74	755.4	56.5	13.6	61	s.	2	0.9	.....	.....	10 s	.....	w.	inap.	inap.	cloudy	F. Z. Gosewisch
Key West, Florida	30.17	766.3	30.19	766.8	74.0	23.3	64	e.	12	5.4	.....	2 cs	2 k;hz	.....	e.	0	0	fair.....	L. M. Melbourne.
Kittyhawk, North Carolina	30.45	773.4	30.47	773.9	41	5.0	65	s.	10	4.5	.....	hz.	0	.....	.....	0	0	clear.....	E. A. Beals.
Knoxville, Tennessee	29.19	741.4	30.25	768.3	39	3.9	88	s.	3	1.3	.....	1 ck	fg.	.....	.....	0	0	clear.....	J. A. Cody.
La Crosse, Wisconsin	28.92	734.6	29.74	755.4	32	0.0	78	n.	4	1.8	.....	.....	10 s	.....	.....	0.02	0.5	cloudy.....	S. C. Emery.
La Mesilla, New Mexico	25.97	659.6	29.92	760.0	39.5	4.2	90	calm	0	0	.....	1 c	0	.....	.....	0.07	1.8	clear.....	N. D. Lane.
Leavenworth, Kansas	28.69	728.7	29.63	752.6	60	15.6	75	s.	10	4.5	.....	.....	10 s	.....	s.	0	0	cloudy.....	A. W. Browne.
Lewiston, Idaho	29.12	739.6	29.98	761.5	44	6.7	68	e.	4	1.8	.....	.....	10 s	.....	e.	0	0	cloudy.....	W. Blake.
Little Rock, Arkansas	29.55	750.6	29.88	758.9	60	15.6	81	s.	8	3.6	.....	.....	10 s	.....	sw.	0	0	cloudy.....	M. F. Burrows.
Los Angeles, California	29.62	752.3	30.02	762.5	52.2	11.2	72	ne.	1	0.4	.....	0	6 s	.....	calm	0	0	fair.....	E. F. Kubel.
Louisville, Kentucky	29.45	748.0	30.04	763.0	54	12.2	43	s.	10	4.5	.....	1 c	0	.....	.....	0	0	clear.....	H. C. Smith.
Lynchburg, Virginia	29.63	752.6	30.35	770.9	34.0	1.1	78	calm	0	0	.....	0	fg.	.....	.....	0	0	clear.	T. H. Breen.
Madison, Wisconsin	28.69	728.7	29.76	755.9	35	1.7	89	n.	2	0.9	.....	10 cs	0	s.	.....	0.33	8.4	cloudy.....	C. A. Shaw.
Marquette, Michigan	29.06	738.1	29.83	757.7	32	0.0	88	s.	1	0.4	.....	.....	10 s	.....	calm	inap.	inap.	cloudy	I. Gilligan.
Mason, Texas	28.78	715.8	29.87	758.7	63.7	17.6	87	sw.	10	4 5	.....	0	4 s	.....	sw.	inap.	inap.	fair.....	A. M. Wilson.
Memphis, Tennessee	29.63	752.6	29.98	761.5	58	14.4	64	se.	5	2.2	.....	.....	10 s	.....	.....	0	0	cloudy.....	D. T. Flannery.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–01	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 6 hours. Inch.	Rainfall or melted snow in the past 6 hours. Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Milwaukee, Wisconsin	28.95	735.3	29.74	755.4	45	7.2	83	sw.	1	0.4			10s;fg		sw.	0.34	8.6	cloudy	W. Line.
Mobile, Alabama	30.09	764.3	30.13	765.3	62	16.7	87	se.	6	2.7			10 n		se.	0.13	3.3	light rain	J. D. Paxton.
Montgomery, Alabama	29.96	761.0	30.20	767.1	53.5	11.9	58	se.	7	3.1			hz.			0	0	dense haze	J. B. McLaughlin.
Moorhead, Minnesota	28.75	730.2	29.83	757.7	22	— 5.6	87	calm	0	0			10 s			0	0	cloudy	H. Bessant.
Morgantown, W. Virginia	29.22	742.2	30.28	769.1	46.5	8.1	57	sw.	4	1.8			0	sk.		0	0	clear	J. Sprigg, jr.
Mt. Washington, N. H.	23.69	601.7	30.21	767.3	3.0	—16.1	55	nw.	34	15.2			8 cs	0	nw.	0	0	cloudy	J. G. Linsley.
Nashville, Tennessee	29.55	750.6	30.11	764.8	52.5	11.4	44	se.	5	2.2			10 cs	fg.	sw.	0	0	cloudy	L. A. Jesunofsky.
New Haven, Connecticut	30.28	769.1	30.40	772.1	28	— 2.2	70	calm	0	0			10 c	sk.		0	0	cloudy	J. H. Sherman.
New London, Connecticut	30.40	772.1	30.45	773.4	29	— 1.7	56	ne.	4	1.8			2 k	7 s	ne.	ne.	0	0	cloudy	J. G. Lynch.
New Orleans, Louisiana	29.97	761.2	30.03	762.7	65.4	18.6	96	se.	10	4.5				10 s		se.	0.16	4.1	threatening	A. J. Armstrong.
Newport, Rhode Island	30.38	771.6	30.43	772.9	29.7	— 1.3	60	calm	0	0				10 s		calm	0	0	cloudy	W. McGillivray.
New River, N. Carolina					44	6.7	76	ne.			1	0	2 s				0	0	clear	C. C. Corbin.
New Shoreham, Rhode I'd	30.39	771.9	30.42	772.7	32.2	0.1	68	calm	0	0			7 cs	0	w.		0	0	fair	W. Davis.
New York, New York	30.22	767.6	30.40	772.1	34	1.1	72	s.	8	3.6			0	9 s		sw.	0	0	cloudy	E. B. Garriott.
Norfolk, Virginia	30.41	772.4	30.44	773.2	39	3.9	73	sw.	5	2.2			0	0			0	0	clear	J. T. Elker.
North Platte, Nebraska	26.63	676.4	29.69	754.1	37.6	3.1	79	nw.	8	3.6				10 s			0	0	cloudy	E. F. Brady.
Olympia, Washington T'y	30.07	763.8	30.11	764.8	45.5	7.5	88	s.	5	2.2				10 s		calm	0.14	3.6	cloudy	J. Dascomb.
Omaha, Nebraska	28.37	720.6	29.62	752.3	58.1	14.5	81	se.	9	4.0				10 n		sw.	0.03	0.8	light rain	A. Pollak.
Ooglaamie, Pt. Barrow, Alas.	30.03	762.7	30.05	763.3	—17.4	—27.4	88	w.	14	6.3			hz.	6 s			0	0	fair	P. H. Ray.
Oswego, New York	29.76	755.9	30.10	764.5	31.0	— 0.6	84	s.	12	5.4				10 n			0.11	2.8	heavy snow	S. W. Beall.
Palestine, Texas	29.31	744.5	29.88	758.9	63.0	17.2	93	s.	12	5.4				10 ks		s.	0.02	0.5	threatening	L. M. Pindell.
Pensacola, Florida	30.12	765.0	30.15	765.8	62.7	17.1	93	e.	10	4.5				10 n			0.20	5.1	light rain	M. McGauran.
Philadelphia, Pa.	30.29	769.4	30.39	771.9	37	2.8	72	se.	5	2.2			6 cs	hz.	w.		0	0	fair	T. F. Townsend.
Pike's Peak, Colorado	17.37	441.2	29.96	761.0	8.5	—13.1	78	sw.	24	10.7			0	6 s			0	0	fair	L. M. Dey.
Ploche, Nevada	23.93	607.8	30.07	763.8	26	— 3.3	58	n.	8	3.6			0	0			0	0	clear	O. K. Kitchel.
Pittsburg, Pennsylvania	29.27	743.4	30.12	765.0	39.7	4.3	67	calm	0	0			0	0			0	0	clear	J. H. Bryce.
Port Eads, Louisiana	30.06	763.5	30.07	763.8	67.1	19.5	91	se.	11	4.9				10 s			0.01	0.3	cloudy	H. G. Christian.
Port Huron, Michigan	29.15	740.4	29.87	758.7	37.0	2.8	80	s.	17	7.6				10 s			0.56	14.2	cloudy	W. O. Bailey.
Portland, Maine	30.35	770.9	30.40	772.1	22.0	— 5.6	73	nw.	4	1.8			6 c	0	calm		0	0	fair	D. C. Murphy.
Portland, Oregon	30.10	764.5	30.17	766.3	46.0	7.8	93	s.	5	2.2				10 n		s.	0.08	2.0	light rain	M. L. Hearne.
Portsmouth, N. Carolina					49	9.4	71	e.	10	4.5			0	hz.		e.	0	0	clear	F. P. Chaffee.
Prescott, Arizona	24.48	621.8	29.82	757.4	37	2.8	58	s.	4	1.8			0	0			0	0	clear	J. Mc N. Wright.
Provincetown, Mass.	30.40	772.1	30.43	772.9	29	— 1.7	77	nw.	1	0.4			3 cs	3 s	nw.		0	0	fair	P. T. Jenkins.
Punta Rassa, Florida	30.19	766.8	30.20	767.1	67.5	19.7	73	e.	10	4.5			9 ck	0	w.		c	0	cloudy	W. J. Evans.
Red Bluff, California	29.66	753.4	30.04	763.0	56.2	13.4	67	nw.	2	0.9			0	1 s			0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.64	752.8	29.88	758.9	68	20.0	93	s.	3	1.3			7 c	0	calm		0	0	fair	W. H. Taylor.
Rochester, New York	29.34	745.2	30.04	763.0	32	0.0	100	s.	17	7.6				10 n		s.	0.03	0.8	light snow	A. T. Sherwood.
Roseburg, Oregon	29.70	754.4	30.26	768.6	45.6	7.6	87	e.	6	2.7				10 n			0.01	0.3	light rain	J. J. Nanry.
Sacramento, California	29.91	759.7	29.99	761.7	58.4	13.6	62	nw.	8	3.6			0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.24	742.7	29.87	758.7	52.9	11.6	66	s.	16	7.2			2 c	5 s		s.	0	0	fair	J. H. Webber.
St. Paul, Minnesota	28.84	732.5	29.76	755.9	32.0	0.0	88	ne.	2	0.9				10 s			0	0	cloudy	O. S. M. Cone.
St. Vincent, Minnesota	28.82	732.0	29.76	755.9	19	— 7.2	84	s.	7	3.1			0	7 k; s		sw;c	0	0	fair	G. Kingsbury.
Salt Lake City, Utah	25.50	647.7	30.02	762.5	35	1.7	56	calm	0	0				10 ks			0.12	3.0	cloudy	J. Craig.
San Antonio, Texas	29.15	740.4	29.86	758.4	65.6	18.7	93	s.	3	1.3				10 s			1.13	28.7	cloudy	E. Lane.
San Diego, California	29.91	759.7	29.98	761.5	50.4	10.2	88	e.	4	1.8			0	0			0	0	clear	A. C. Dobbins.
Sandusky, Ohio	29.22	742.2	29.94	760.5	45	7.2	68	sw.	20	8.9			10 cs	0	s.		inap.	inap.	cloudy	M. H. Perry.
Sandy Hook, New Jersey	30.36	771.1	30.40	772.1	36.0	2.2	79	sw.	12	5.4			10 k	0	nw.		0	0	cloudy	B. A. Blundon.
San Francisco, California	29.93	760.2	30.00	762.0	60	15.6	50	nw.	8	3.6			0	0			0	0	clear	N. Gorom.
Santa Fé, New Mexico	22.95	582.9	29.93	760.2	41	5.0	62	s.	3	1.3				10 s		s.	0.12	3.0	cloudy	H. N. Jones.
Savannah, Georgia	30.24	768.1	30.33	770.4	54.5	12.5	82	e.	4	1.8			3 ck	0	s.		0	0	clear	H. M. Ford.
Shreveport, Louisiana	29.65	753.1	29.90	759.4	61	16.1	93	s.	8	3.6				10 s		s.	inap.	inap.	threatening	E. N. Meekins.
Silver City, New Mexico	24.05	610.9	29.83	757.7	35	1.7	72	calm	0	0			0	8 ks		calm	0.22	5.6	cloudy	J. B. Wallace.
Sitka, Alaska	29.88	758.9	29.94	760.5	30	— 1.1	82	sw.	5	2.2			0	0			0.05	1.3	clear	J. J. McLean.
Smithville, North Carolina	30.37	771.4	30.41	772.4	46	7.8	93	e.	5	2.2			0	0			0	0	clear	J. C. Rickli.
Spokane Falls, Wash. Ter.	27.89	708.4	30.02	762.5	36	2.2	92	s.	9	4.0				10 s			0	0	cloudy	D. Moore.
Springfield, Illinois	29.12	739.6	29.84	757.9	54	12.2	58	s.	20	8.9				10 s		w.	0	0	cloudy	T. B. Jennings.
Springfield, Massachusetts	30.28	769.1	30.42	772.7	25.2	— 3.8	73	s.	2	0.9				10 n			inap.	inap.	light snow	T. S. Outram.
Springfield, Mo.	28.34	719.8	29.90	759.4	58	14.4	86	s.	15	6.7				10 n		sw.	inap.	inap.	light rain	J. B. Marbury.
Stockton, Texas	26.83	681.5	29.91	759.7	50.5	10.3	83	s.	8	3.6			0	0			0	0	clear	J. O'Dowd.
Thatcher's Island, Mass.	30.34	770.6	30.40	772.1	32.0	0.0	83	sw.	1	0.4				10 s			0	0	cloudy	G. Liebmann.
Toledo, Ohio	29.18	741.2	29.91	759.7	46.4	8.0	58	s.	13	5.8			8 cs	0	s.		0.02	0.5	threatening	A. Buell.
Tucson, Arizona	27.36	694.9	29.82	757.4	57	13.9	53	s.	10	4.5			0	4 s			0.03	0.8	fair	J. L. Whiteside.
Umatilla, Oregon	29.68	753.9	30.06	763.5	47.0	8.3	68	w.	16	7.2			8 cs	0	nw.		0	0	cloudy	R. P. Sibley.
Uvalde, Texas	28.88	733.5	29.86	758.4	66	18.9	93	calm	0	0				10 ks		sw.	0.26	6.6	cloudy	E. C. Imlay.
Vicksburg, Mississippi	29.75	755 6	30.01	762.2	60	15.6	81	se.	6	2.7				10 s		calm	inap.	inap.	threatening	T. J. Kenan.
Visalia, California	29.52	749.8	29.90	759.4	52	11.1	51	se.	5	2.2			0	0			0	0	clear	J. T. Cochran.
Washington, D. C.	30.23	767.8	30.35	770.9	37	2.8	82	s.	4	1.8			2 c	hz.			0	0	clear	B. M. Pursell.
West Las Animas, Colorado	25.64	651.2	29.72	754.9	39	3.9	46	w.	9	4.0			0	1 s		sw.	0	0	clear	J. Grover.
Wickenburg, Arizona					47.5	8.6	37	calm			0	0	0				0	0	clear	H. A. Kremp.
Williamsport, Pa.	29.62	752.3	30.25	768.3	35	1.7	64	s.	15	6.7			3 k	1 ks	w.	s.	0	0	fair	B. F. Hough.
Wilmington, N. Carolina	30.35	770.9	30.41	772.4	45	7.2	76	calm	0	0			hz.	sk.	calm	calm	0	0	dense haze	S. A. Haney.
Winnemucca, Nevada	25.60	650.2	30.10	764.5	35	1.7	72	sw.	8	3.6			0	5 ks		sw.	0	0	fair	J. R. Williams.
Yankton, Dakota	28.30	718.8	29.69	754.1	35	1.7	79	se.	4	1.8				10 s			0	0	cloudy	J. H. Atfield.
Yuma, Arizona	29.70	754.4	29.85	758.2	56.0	13.3	49	nw.	2	0.9			0	0			0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.07	560.6			54.0	12.2	82	calm	0	0			3 k	6 s			0	0	cloudy	Joaquin Gomez.
Bridgetown, Barbados, W. I.	30.09	764.3	30.10	764.5	79	26.1	86	e.					5 k	5 ks	e.	e.	0	0	fair	J. A. Racker.
Buenaventura, U. S. C.	30.04	763.0	30.06	763.5	77	25.0	90	calm	0	0				10 ks		n.	0	0	cloudy	J. I. Plume.
Guadeloupe, W. I.	30.01	762.2	30.03	762.7	76	24.4	83	e.					8 k	2 ks			0	0	cloudy	B. Bigar.
Havana, Cuba, W. I.	30.15	765.8	30.20	767.1	73	22.8	63	se.	2.4	1.1			0	0			0	0	clear	A. Van Caneghem.
Kingston, Jamaica, W. I.	30.12	765.0	30.13	765.3	67.0	19.4	93	n.	1	0.4			0	1 s		e.	0	0	fair	Robert Johnston.
Navassa	30.18	766.6	30.26	768.6	77	25.0	72	ne.	5	2.2			5 ck	5 s	se.	ne.	0.27	6.9		F. M. Everett.
Paramaribo, S. A.	30.05	763.3	30.05	763.3	80	26.7	78	e.				2	3 c	5 k	e.		0	0	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.56	750.8	30.02	762.5	81	27.2	78	n.				1	5 ck	4 k	calm	calm	0	0	hazy	Miss Flora A. Nichols.
Rivas							94	ne.				3	0	2 k		ne.	0	0	clear	Robert Mason.
Santiago de Cuba, W. I.	30.14	765.5	30.16	766.1	72	22.2	67	n	3.6	1.6			0	0			0	0	clear	
York Factory, B. A.	30.30	769.6	30.36	771.1	—21.0	—29.4		nw.	13	5.8			3 k	2 s	n.	nw.	0	0	fair	W. Wood.

STATIONS AND VESSELS.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
BRITISH NAVAL.																		
H. M. S. Agincourt, N. 39° 11′, E. 9° 06′	29.87	758.7	51.5	10.8	86	w.			3		7	wnw.						d. clouds.
H. M. S. Alert, S. 5° 39′, E. 53° 36′	29.90	759.4	87.2	30.7	76	se.			2–3		4							d. clouds.
H. M. S. Alexandra, Naples, Italy	29.78	756.4	59	15.0	76	s.			2		4							d. clouds.
H. M. S. Bacchante, N. 31° 33′ E. 30° 11′	29.86	758.4	70	21.1	66	ese.			2		4	wsw.						d. clouds.
H. M. S. Boadicea, S. 34° 11′, E. 18° 26′	29.87	758.7	73	22.8	67	ese.			4		3	se.						d. clouds.
H. M. S. Comus, N. 6° 28′, E. 119° 05′	29.94	760.5	80	26.7	95	ene.			2		3							d. clouds.
H. M. S. Diamond, S. 32° 40′, E. 114° 25′	30.26	768.6	67	19.4	84	s.			4		1					1	s.	blue sky.
H. M. S. Dido, N. 17° 00′, W. 61° 45′	30.16	766.1	77	25.0		ene.			1–2		3	ne.						d. clouds.
H. M. S. Eclipse, S. 15° 43′, E. 46° 20′	29.88	758.9	84	28.9		ese.			1		3							d. clouds.
H. M. S. Espiegle, S. 34° 46′, E. 106° 23′	30.42	772.7	62	16.7	71	e.			4		6	se.				2	ene.	d. clouds.
H. M. S. Euryalus, Aden, Arabia	29.97	761.2	82	27.8	83	sse.			1–2		0							blue sky.
H. M. S. Flying Fish, N. 34° 41′, E. 135° 12′	29.81	757.2	48	8.9	77	wsw.			1		8	w.				1	s.	misty.
H. M. S. Gannet, S. 33° 01′, W. 71° 37′	30.02	762.5	59	15.0	87	calm			0		10							misty.
H. M. S. Garnet, S. 34° 54′ W. 56° 13′	30.04	763.0	60	15.6	76	s.			5		4							d. clouds.
H. M. S. Griffon, N. 18° 25′, W. 75° 28′	30.09	764.3	76	24.4	76	ne.			4		4	ne.				7	ne.	d. clouds.
H. M. S. Inconstant, S. 23° 40′, E. 69° 15′	30.06	763.5	80	26.7	91	nne.			2–3		3	nne.				2	nne.	d. clouds.
H. M. S. Iron Duke, N. 22° 16′, E. 114° 10′	30.21	767.3	62	16.7	?	calm			0		10	e.						raining.
H. M. S. Lark, S. 24° 18′, E. 164° 09′	30.03	762.7	74.3	23.5		ese.			5		2					3	e.	d. clouds.
H. M. S. Liffey, Coquimbo, Chili	30.01	762.2	62	16.7		n.			1		8							d. clouds.
H. M. S. Magpie, N. 28° 00′, E. 129° 25′	30.15	765.8	56.9	13.8	75	nnw.			3–5		10					4	nnw.	misty.
H. M. S. Malabar, N. 16° 27′, E. 61° 33′	29.96	761.0	79	26.1	90	nnw.			2–3		1	n.				2	n.	blue sky.
H. M. S. Orontes, Bitter Lake, Suez Canal, Egypt	29.93	760.2	69.5	20.8	68	s.			2		10							overcast.
H. M. S. Rambler, St. Paul de Loando. Benguiea	29.86	758.4	81	27.2		wnw.			1		4							d. clouds.
H. M. S. Ready, Muscat. Arabia	30.00	762.0	75.1	23.9		ne.			2		6							d. clouds.
H. M. S. Rocket, Vancouver Id., B. C.	30.08	764.0	43	6.1	100	calm			0		10							raining.
H. M. S. Sea Gull, S. 4° 44′, E. 52° 00′	29.31	744.5	87	30.6	79	e.			2–3		2	ese.				4	ese.	d. clouds.
H. M. S. Tamar, N 37° 27′ E. 8° 54′	29.93	760.2	65.5	18.6	68	wnw.			5–6		3	wnw.				6	wnw.	squally.
H. M. S. Thalia, S. 31° 36′, W. 21° 10′	30.09	764.3	75	23.9		nne.			5		7					5	nne.	d. clouds.
H. M. S. Triumph, Valparaiso, Chili	30.03	762.7	59	15.0	87	calm			0		9	calm						d. clouds.
H. M. S. Tyne, N. 17° 17′, E. 113° 57′	30.06	763.5	76	24.4	95	ne.			3		7	ne.				2	ne.	d. clouds.
H. M. S. Woodlark, Bombay, India	29.82	757.4	84.5	29.2	68	w.			2–3		0							misty.
PORTUGUESE NAVAL.																		
Quanza, N. 16° 09′ W. 24° 42′	30.06	763.4	73.4	23.0	78	ne.			4		5		sw.			4	ne.	d. clouds.
Rio Lima, Porto Praya, Cape Verde Islands	30.06	763.5	77.0	25.0	86	ne.			3		3		ne.	10 mi	nutes	3	ese.	d. clouds.
Tamega, Macao, China	30.26	768.6	60.8	16.0	89	n.			2		10			8 h'r	8 h'r	1		
UNITED STATES NAVAL.																		
Navy Yard, Pensacola, Fla	30.14	765.5	65	18.3	84	e.	12	5.4			0?			0.15	3.8			heavy rain?
Navy Yard, Portsmouth, N. H.	30.43	772.9	27	— 2.8	?	calm	0	0			5			0	0			hazy.
Naval Hospital, Yokohama, Japan	29.36	745.7	51.5	10.8	52	sw.			1		8		w.	0.56	14.2			cloudy.
Adams, S. 10° 56′ W. 78° 19′	29.79	756.7	69	20.6	100	se.			1		0					mod.	sw.	clear.
Alaska, S. 17° 46′, W. 71° 34′	29.99	761.7	67	19.4	89	ne.			2		0			0	0	sm'h		clear.
Alert, Hong Kong, China*	30.01	762.2	65	18.3	68	nne.			2		0					sm'h		cloudy.
Alliance, N. 16° 12′ W. 76° 52′	30.06	763.5	77	25.0	82	ne.			3		5			0	0	sm'h		fair.
Ashuelot, Nagasaki, Japan	30.05	763.3	45	7 2	84	wnw.			2		8		w.					cloudy.
Brooklyn, Montevideo, Uruguay	30.01	762.2	61	16.1	77	s.	9	4.0			5		sw.	0	0	mod.	s.	fair.
Colorado, New York, N. Y.	30.33	770.4	34	1.1	79	s.	7	3.1			8		calm	0	0			cloudy.
Enterprise, N. 19° 13′ W. 69° 02′*	30.15	765.8	76	24.4	77	se.			1–2		2							clear.
Essex, Monrovia Liberia, Africa	29.92	760.0	79	26.1	86	s.			1		10					sm'h	w.	cloudy.
Franklin, Norfolk, Va.	30.46	773.7	41	5.0	82	se.	7	3.1			0			0	0			clear.
Galena, Palermo, Sicily	29.82	757.4	63	17.2	72	nw.			1		5					sm'h		fair.
Independence, Navy Yard, Mare Island, Cal.	29.81	757.2	59	15.0	89	nnw.			1		0			0	0			clear.
Kearsarge, Kingston, Jamaica	30.13	765.3	75	23.9	84	calm			0		0							clear.
Lackawanna, S. 28° 50′, W. 75° 21′†	30.15	765.8	71	21.7	95	ene.			3		2							clear.
Lancaster, N. 37° 07′, E. 23° 32′*	29.71	754.6	60	15.6	71	ssw.			1–3		10		ne.			sm'h	ne.	
Marion, S. 33° 54′, E. 18° 24′*†	29.96	761.0	66	18.9	100	w.			1		8		sw.	0	0	sm'h	s.	cloudy.
Michigan, Erie, Pa.	29.88	758.9	41	5.0	100	s.			6		10		calm			sm'h		clear.
Minnesota, Newport, R. I.	30.43	772.9	34	1.1	100	calm	0	0			8		wsw.					cloudy.
Monocacy, Kobe, Japan	29.87	758.7	46	7.8	69	wnw.			2		8							fair.
New Hampshire, Newport, R. I.	30.41	772.4	30	— 1.1	78	e.			1		10		wnw.					fair.
Nipsic, Alicante, Spain	29.95	760.7	67	19.4	64	s.			2		0					sm'h		cloudy.
Onward, Callao, Peru	30.11	764.8	68	20.0	95	sse.			2		2					sm'h		clear.
Palos, Kobe, Japan	29.88	758.9	45	7.2	61	wnw.			1		5		n.			long	w.	clear.
Passaic, Washington, D. C.	30.35	770.9	36	2.2	80	s.			3		2							fair.
Pensacola. Callao, Peru	30.01	762.2	71	21.7	80	sse.	2	0.9			0		s.					fair.
Portsmouth, Norfolk, Va.	30.42	772.7	35	1.7	90	s.			2		2			0	0	sm'h		clear.
Powhatan, Port of Spain, Trinidad, W. I.	30.07	763.8	81	27.2	78	calm			0		5							clear.
Quinnebaug, Messina, Sicily	29.78	756.4	60	15.6	71	nw.			3		5		nw.			sm'h		fair.
Ranger, Black Head, Mexico*	29.96	761.0	72	22.2	76	nnw.			0–1		2		calm	0	0	sm'h		fair.
Richmond, Kobe Japan*	29.78	756.4	51	10.6	65	w.			2		8		w.	0.1	3.			clear.
Shenandoah, N. 12° 59′, W. 64° 27′*	30.15	765.8	77	25.0	86	ene.			2		8		ne.			long	ene.	fair.
St. Louis, League Island	30.65	778.5	39	3.9	100	s.	10	4.5			5		sw.	0	0			fair.
Swatara, Kobe, Japan*	29.68	753.9	48	8.9	63	wnw.			2		10		nw.			sm'h		cloudy.
Tennessee, New Orleans, La.	30.02	762.5	66	18.9	100	e.	11	4.9			10		sse.	0.1	3.			hazy.
Vandalia, N. 25° 41′, W. 79° 53′†	30.30	769.6	74	23.3	76	ene.			4		8		ene.					fair.
Wabash, Boston, Mass.	30.44	773.2	25	— 3.9		wsw.	1	0.4						0	0			hazy.
Wachusetts, Sitka, Alaska	29.84	757.9	32	0.0		calm			0		0					sm'h		clear.
Wyoming, Port Royal, S. C.	30.34	770.6	57	13.9	75	ne.	6	2.7			5		sw.	0	0			fair.
Yantic, N. 20° 50′ W. 97° 14′*	29.93	760.2	74	23.3	95	s.			2–3		8		s.			gr'd		hazy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.			Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mt·s. p. sec	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
ALLAN LINE.																	
S. S. Nova Scotia, N. 49° 50′, W. 24° 20′	30.35	770.9	50	10.0	.....	sw.	.....	.....	4	.....	10	.....	ssw.	.....	.....	high	nw.	cloudy.
S. S. Peruvian, N. 43° 24′ W. 66° 10′*	30.16	766.1	17	— 8.3	.....	wnw.	.....	.....	3	.....	2	.....	wnw.	0	0	sm'h	.....	clear.
S. S. Prussian, Glasgow, Scotland*	29.86	750.8	46	7.8	.....	ssw.	.....	.....	6	.....	6	.....	sw.	10 h'r	10 h'r	.....	.....	cloudy.
S. S. Waldensian, N. 52° 40′, W. 13° 39′ *	30.39	771.9	49	9.4	.....	sw.	.....	.....	6	.....	2	.....	wnw.	1 h'r	1 h'r	long	wnw.	squally.
AMERICAN STEAMSHIP COMPANY.																		
S. S. Illinois, N. 48° 39′, W. 26° 11′	30.33	770.4	52	11.1	93	ese.	.....	.....	2	.....	10	.....	ese.	.....	.....	mod.	se.	overcast.
S. S. Indiana, N. 51° 00′, W. 11° 10′†	30.31	769.9	55	12.8	62	nnw.	.....	.....	4	.....	8	.....	n.	h'vy	h'vy	mod.	wnw.	raining.
S. S. Ohio, Philadelphia, Penn.	.....	.....	34	1.1	100	se.	.....	.....	2	.....	1	.....	sw.	.....	.....	.....	.....	clear.
ANCHOR LINE.																		
S. S. Assyria, N. 40° 07′, W. 24° 49′*†	30.60	777.2	59	15.0	.....	wnw.	.....	.....	3	.....	8	.....	wnw.	0	0	sm'h	nw.	cloudy.
S. S. Devonia, N. 42° 50′ W. 49° 30′†	29.72	754.9	47	8.3	.....	sse.	.....	.....	5	.....	8	.....	sw.	.....	.....	mod.	sse.	cloudy.
S. S. Galatia, N. 40° 47′, W. 58° 23′†	30.11	764.8	.....	.....	.....	nw.	.....	.....	6	.....	10	.....	nw	.....	.....	mod.	nw.	light sleet.
S. S. Utopia, N. 34° 15′, W. 60° 16′*†	30.25	768.3	57	13.9	75	nw.	.....	.....	6	.....	2	.....	nw.	1 h'r	1 h'r	mod.	nw.	fair.
ATLAS LINE.																		
S. S. Ailsa, N. 10° 16′, W. 75° 43′†	30.00	762.0	79	26.1	86	ne.	.....	.....	1	.....	2	.....	nne.	0	0	sm'h	.....	fine.
S. S. Arden, Mayaguez, Porto Rico W. I.	.....	.....	.....	.....	.....	s.	.....	.....	1	.....	2	.....	.....	.....	.....	sm'h	se.	fine.
S. S. Athos, Aux Cayes, Hayti, W. I.	29.68	753.9	.....	.....	.....	.....	.....	.....	.....	.....	0	.....	.....	0	0	.....	.....	fine.
BOSTON AND HALIFAX LINE.																		
S. S. Carroll, Halifax, N. S.†	30.23	767.8	49	19.4	85	sw.	.....	.....	.....	.....	.....	.....	.....	0	0	.....	.....	cloudy.
BRITISH METEOROLOGICAL OFFICE.																		
S. Auckland, N. 39° 08′, W. 32° 36′	30.47	773.9	62	16.7	.....	wsw.	.....	.....	3	.....	8	.....	.....	.....	.....	.....	.....	overcast.
S. Baroda, S. 22° 24′, E. 81° 44′	30.11	764.8	77.5	25.3	78	ene.	.....	.....	5	.....	6	.....	.....	.....	.....	.....	.....	d. clouds.
British Merchant, N. 10° 25′, E. 90° 55′	29.89	759.2	83	28.3	71	sse.	.....	.....	1-2	.....	0	.....	.....	.....	.....	.....	.....	misty.
Bk Caldew, N. 32° 48′, W. 36° 18′	30.49	774.4	63.8	17.7	.....	ene.	.....	.....	3	.....	10	.....	.....	.....	.....	.....	.....	overcast.
S. S. Clpero, Off Tuscar, Ireland	29.89	759.2	47.5	8.6	59	nw.	.....	.....	6	.....	8	.....	.....	.....	.....	3	wsw.	misty.
Bk. Commewyne, N. 34° 59′. W. 51° 19′	30.08	764.0	64.4	18.0	73	sw.	.....	.....	4	.....	10	.....	.....	.....	.....	.....	.....	misty.
S. S. Gordon Castle, Koh Chang, Siam, Asia	29.87	758.7	.....	.....	.....	sse.	.....	.....	4	.....	2	.....	.....	.....	.....	.....	.....	d. clouds.
S. Lochee, N. 53° 25′, W. 19° 15′	30.22	767.6	45	7.2	88	w.	.....	.....	6	.....	8	.....	.....	.....	.....	.....	.....	d. clouds.
BRISTOL LINE.																		
S. S. Brooklyn City, N. 49° 50′, W. 13° 34′*†	30.40	772.1	58	14.4	.....	nw.	.....	.....	6	.....	2	.....	nw.	0	0	h'vy	nnw.	clear.
CROMWELL LINE.																		
S. S. Hudson, N. 33° 10′, W. 77° 00′*†	30.24	768.1	59	15.0	.....	ese.	.....	.....	3	.....	2	.....	e.	0	0	h'vy	ne.	fair.
S. S. New Orleans, N. 38° 07′ W. 74° 35′*†	30.40	772.1	36	2.2	.....	s.	.....	.....	.....	.....	.....	.....	.....	.....	.....	mod.	se.	smoky.
CUNARD LINE.																		
S. S. Scythia, N. 52° 00′, W. 7° 35′†	29.96	761.0	52	11.1	86	nw.	.....	.....	6	.....	5	.....	nw.	7 h'r	7 h'r	mod.	nw.	raining.
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. Canada, N. 43° 00′, W. 54° 04′	29.87	758.8	41.0	5.0	.....	nw.	.....	.....	5	.....	8	.....	nw.	1½h'r	1½h'r	.....	nw.	hailing.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Bohemia, N. 40° 24′, W. 69° 33′.*†.	30.25	768.3	.....	.....	.....	n.	.....	.....	1	.....	2	.....	.....	0	0	sm'h	n.	fine.
S. S. Gellert, N. 49° 26′, W. 13° 38′	30.32	770.1	55	12.8	.....	n.	.....	.....	6	.....	2	.....	nw.	0	0	h'vy	n.	clear.
S. S. Lessing, N. 49° 48′ W. 5° 19′*	29.92	760.0	55	12.8	.....	nw.	.....	.....	6	.....	2?	.....	nw.	3 h'r	3 h'r	long	w.	cloudy.†
S. S Silesia, Hamburg, Germany.*†	29.59	751.6	48.2	9.0	.....	e.	.....	.....	6	.....	10	.....	e.	5 h'r	5 h'r	.....	.....	raining.
JOHNSTON LINE.																		
S. S. Thanemore, N. 40° 32′, W. 61° 10′	30.20	767.1	.....	.....	.....	nnw.	.....	.....	6	.....	8?	.....	wnw.	hail	hail	.....	wnw.	clear †
LEYLAND LINE.																		
S. S. Iberian, N. 43° 09′, W. 48° 04′	.....	.....	.....	.....	.....	s.	.....	.....	3	.....	8	.....	ssw.	0	0	light	s.	
MALLORY LINE.																		
S. S. Colorado, N. 28° 10′, W. 79° 47′†	30.23	767.8	70	21.1	.....	e.	.....	.....	6	.....	9	.....	e.	0	0	high	ne.	smoky.
MERCHANTS' EXPRESS LINE.																		
S. S. Freja, N. 49° 07′, W. 20° 13′†	30.46	773.7	57	13.9	75	e.	.....	.....	3	.....	2	.....	ne.	0	0	high	n.	
S. S. Hermod, Havre, France.*†	29.4c	746.7	53.6	12.0	.....	wnw.	.....	.....	9	.....	10	.....	wnw.	4 h'r	4 h'r	.....	.....	cloudy.
NATIONAL LINE.																		
S. S. England, N. 40° 27′, W. 67° 33′ *†	30.52	775.2	.....	.....	.....	nnw.	.....	.....	4	.....	0	.....	.....	0	0	light	w.	clear.
S. S. Erin, N. 40° 27′, W. 68° 51′	30.43	772.9	34	1.1	.....	n.	.....	.....	3	.....	0	.....	.....	0	0	mod.	nw.	fine.
S. S. Italy, N. 47° 40′, W. 31° 05′	30.35	770.9	.....	.....	.....	nne.	.....	.....	4	.....	2	.....	nne.	2 h'r	2 h'r	cross	e.	clear.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Niagara, N. 34° 07′, W. 76° 43′†	30.48	774.4	62	16.7	.....	e.	.....	.....	4	.....	3?	.....	se.	0	0	short	ne.	overcast.†
NEW YORK, HAVANA AND MEXICAN MAIL.																		
S. S City of Alexandria, N. 29° 30′, W. 78° 00′*†	30.50	774.7	65	18.3	.....	ne.	.....	.....	4	.....	9	.....	se.	0	0	mod.	ne.	hazy.
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Alvena, N 17° 23′, W. 72° 17′*†	29.98	761.5	78	25.6	.....	w.	.....	.....	5	.....	.....	.....	.....	.....	.....	.....	e.	clear.
S. S. Atlas, 17° 22′, W. 75° 21′.*†	30.22	767.6	77	25.0	.....	sse.	.....	.....	1	.....	.....	.....	.....	.....	.....	sm'h	.....	clear.
S. S. Bothnia, N. 42° 44′, W. 51° 20′	29.81	757.2	37	2.8	.....	wnw.	.....	.....	6	.....	.....	.....	.....	.....	.....	.....	nw.	rainy.
S. S City of Washington, N. 18° 39′, W. 92° 46′*†	30.10	764.5	76	24.4	.....	se.	.....	.....	3	.....	.....	.....	.....	.....	.....	sm'h	.....	clear.
S. S. Maas, N. 40° 05′ W. 67° 59′*	30.38	771.6	33	0.6	.....	wnw.	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	nw.	fine.
S. S. New York, N 26° 45′, W 86° 00′*†	30.15	765.8	74	23.3	.....	se.	.....	.....	3	.....	.....	.....	.....	.....	.....	.....	ese.	
NORTH GERMAN LLOYD.																		
S. S. Hermann, N. 48° 11′, W. 22° 53′*†	30.49	774 4	50.0	10.0	.....	s.	.....	.....	4	.....	6	.....	s.	0	0	long	nnw.	fair.
S. S. Koln, N. 48° 12.′ W. 26° 59′*	30.30	769.6	53.0	11.7	80	s.	.....	.....	5	.....	10	.....	.....	1 h'r	1 h'r	high	nw.	showery.
S. S. Kronprinz F. Wilhelm, N. 37° 10′ W. 74° 00′	30.47	773.9	42.8	6.0	.....	se.	.....	.....	3	.....	0	.....	.....	0	0	3	se.	clear.
S. S. Leipzig, N. 43° 15′, W. 47° 14′	29.79	756.7	56.8	13.8	94	s.	.....	.....	6	.....	10	.....	s.	0	0	mod.	ssw.	misty.
S. S. Main, Bremerhaven, Germany*	30.22	767.6	55.4	13.0	.....	ne.	.....	.....	4-5	.....	10	.....	ne.	rain	rain	.....	.....	rainy.
S. S. Mosel, N. 41° 23′ W. 69° 35′	30.51	774.9	42.1	5.6	.....	nne.	.....	.....	3	.....	3	.....	ne.	0	0	light	nne.	clear.
S. S. Neckar, N. 47° 00′, W. 31° 47′	30.21	767.3	55.4	13.0	.....	e.	.....	.....	3	.....	5	.....	se.	0	0	.....	.....	fine.
S. S. Nurnburg, N. 21° 48′, W. 21° 07′*	30.10	764.5	71.6	22.0	70	ne.	.....	.....	4	.....	0	.....	.....	0	0	4	ne.	clear.
S. S. Oder, N. 49° 00′, W. 2° 05′	30.39	771.9	56.8	13.8	.....	se.	.....	.....	2	.....	2	.....	ne.	0	0	high	nw.	fair.
S. S. Ohio, N. 46° 33′, W. 10° 12′	30.26	768.6	.....	.....	.....	nw.	.....	.....	5	.....	6	.....	nw.	3 h'r	3 h'r	long	nw.	fair.
S. S. Saller, N 43° 35′, W 49° 57′	29.73	755.1	38.3	3.5	.....	ssw	.....	.....	7	.....	8	.....	ssw.	½ h'r	½ h'r	r'gh	ssw.	cloudy.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Belgic N. 41° 00′ E. 165° 39′†	29.84	757.9	46	7.8	69	n.	.....	.....	3	.....	5	.....	nnw.	0	0	mod.	n.	fair.
S. S. Gaelic, Hong Kong, China†	30.14	765.5	67	19.4	79	se.	.....	.....	2	.....	10	.....	se.	.....	.....	.....	.....	overcast.
S. S. Oceanic, N. 35° 16′ W. 164° 22′*	30.00	762.0	58	14.4	76	sw.	.....	.....	4	.....	4	.....	sw.	.....	.....	4	wnw.	fine.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, New York, N. Y.†	30.40	772.1	.....	.....	.....	sw.	.....	.....	3	.....	8	.....	wnw.	hail	hail	.....	.....	smoky.
S. S Seminole, N. 35° 20′, W. 75° 15′†	30.47	773.9	46	7.8	69	ese.	.....	.....	3	.....	0	.....	.....	0	0	long	ene	clear.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. City of Chester, N. 39° 53′, W. 124° 05′*†	30.16	766.6	51	10.6	86	wnw.	.....	.....	7	.....	2	.....	nw.	.....	.....	r'gh	nw.	fair.
S. S. Oregon, N. 44° 19′, W. 124° 24′†	30.28	769.1	47	8.3	100	sw.	.....	.....	2	.....	10	.....	.....	.....	.....	.....	.....	misty.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, N. 35° 38′, W. 121° 20′†	29.95	760.7	54	12.2	93	e.	.....	.....	2	.....	10	.....	e.	.....	.....	mod.	w.	cloudy.
S. S. Geo. W. Elder, Departure Bay, B. C†	30.15	765.8	44	6.7	.....	nw.	.....	.....	3	.....	3	.....	nw.	0	0	sm'h	.....	clear.
S. S. Idaho, San Francisco, Cal.†	29.99	761.7	60	15.6	55	nnw.	.....	.....	3	.....	0	.....	.....	.....	.....	.....	.....	clear.
S. S. Orizaba, N. 36° 37′, W. 121° 55′†	29.97	761.2	55	12.8	50	nw.	.....	.....	6	.....	fg	.....	nw.	0	0	h'vy	nw.	foggy.
S. S. State of California, Portland, Oregon.†	30.16	766.1	47	8.3	85	s.	.....	.....	2	.....	10	.....	sw.	0	0	.....	.....	cloudy.
S. S. Victoria, N. 40° 33′, W. 124° 34′†	30.14	765.5	50	10.0	93	nw.	.....	.....	5	.....	.....	.....	.....	.....	.....	hv'y	nw.	clear.
PACIFIC MAIL STEAMSHIP CO.																		
S. S. Australia, Sydney, N. S. W.	30.03	762.7	71	21.7	80	calm	.....	.....	0	.....	2	.....	.....	0	0	.....	.....	clear.
S. S. City of New York, S. 40° —′, W. 167° —′†	29.97	761.2	80	26.7	91	var.	.....	.....	1	.....	0	.....	.....	0	0	sm'h	ne.	clear.
S. S. City of Pekin, N. 9° 31′, W. 85° 58′†	29.95	760.7	79	26.1	82	ne.	.....	.....	5	.....	2	.....	ne.	0	0	small	ne.	hazy.
S. S. City of Rio de Janeiro, S. 23° 00′, W. 108° 48′†	30.18	766 6	71	21.7	75	nw.	.....	.....	2	.....	5	.....	nw.	0	0	long	nw.	fair.
S. S. City of Sydney, S. 34° 02′, E. 169° 42′†	30.15	765.8	64	17.8	58	se.	.....	.....	3	.....	8	.....	se.	0	0	mod.	se.	cloudy.
S. S. City of Tokio, N. 37° 31′, W. 124° 08′†	30.00	763 5	50	10.0	100	n.	.....	.....	0	.....	2	.....	nw.	0	0	r'gh	nw.	clear.
S. S. Clyde, N. 19° 42′, W. 105° 52′†	29.95	760.7	75	23.9	81	ese.	.....	.....	1	.....	2	.....	e.	0	0	light	w.	clear.
S. S South Carolina, Corinto, Nicaragua, C. A.†	30.11	764.8	82	27.8	63	ne.	.....	.....	2	.....	0	.....	.....	0	0	sm'h	.....	fine.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
QUEBEC STEAMSHIP COMPANY.																		
S. S. Muriel, New York Bay, N. Y.						sw.			3		5			0	0	sm'h		fair.
RED STAR LINE.																		
S. S. Rhynland, N. 40° 10′ W. 68° 30′	30.45	773 4	32	0.0		nnw.			3		2		nnw.	0	0	light	nnw.	clear.
S. S. Switzerland, N 45° 17′, W. 34° 48′†	30.35	770.9				sse.			1		8		w.	5 h'r	5 h'r	long	wnw.	cloudy.
S. S. Vaderland, N. 40° 30′, W. 73° 03′	30.23	767.8	37	2.8		ssw.			2		8			0	0	sm'h		cloudy.
S. S. Waesland, N. 50° 36′ E. 0° 10′	29.53	750.0	46	7.8		nw.			8		10		nw.	9 h'r	9 h'r	mod.	nw.	squally.
ROTTERDAM LINE.																		
S. S. W. A. Scholten, N. 48° 57′, W. 26° 22′*	30.24	768.1	58.0	14.4	76	se.			4		8		s.	c	o	high	nw.	
THINGVALLA LINE.																		
S. S. Thingvalla, Copenhagen, Denmark†	29.64	752.8	45.5	7.5		ssw.			1		3		ssw.	0	0			clear.
WARREN LINE.																		
S. S. Iowa, Off Kinsale, Ireland*†	30.10	764.5	46	7.8		nw.			8		4		nw.	4 h'r	4 h'r	sm'h		fair.
WHITE STAR LINE.																		
S. S. Adriatic, N. 46° 08′, W. 35° 01†*	30.41	772.4	52	11.1		sw.			3		5		sw.	0	0	sm'h		d. clouds.
S. S. Britannic, Off Sandy Hook, N. J.*†	30.15	765.8	34	1.1		sw.			2		8		sw.	0	0	sm'h		d. clouds.
S. S. Celtic, N. 40° 27′ W. 68° 01′*†	30.38	771 6	34	1.1	79	n.			4		2		n.	0	0	sm'h		fair.
S. S. Republic, N. 50° 37′ W. 14° 57′†	30.44	773 2	56	13.3	93	nw.			5		3		nw.	0	0	long	nw.	fair.
WILSON LINE.																		
S. S. Otranto,, N. 40° 14′, W. 64° 24′†	30.34	770.6	38	3.3		nw.			6		10		nnw.	1 h'r	1 h'r	mod.	wnw.	cloudy.
S. S. Salerno, N. 46° 24′ W. 32° 25′†	30.34	770.6	56	13.3		ene.			3		9		e.			con	var.	cloudy.
WINSOR LINE.																		
S. S. Catherine Whiting, Off Fire Island, N. Y.†	30.44	773.2				sw.			3				sw.					
S. S. Norman, N. 39° 55′, W. 73° 48′	30.48	774.2				ssw.			7		8		s.	0	0	sm'h	e.	cloudy.
MISCELLANEOUS.																		
Sch. Addie Fuller, Cedar Keys, Florida†	30.31	769.9	64	17.8	78	e.			3	0	hz			0	0			hazy.
Bk. Adelaide, Rio de Janeiro, Brazil*†	30.00	762.0	80	26.7		nne.							ne.	0	0			clear.
Bk. Aureola, N. 37° 18′, W. 63° 50′*†	30.55	776.0	53	11.7		nw.			6		9		nw.	1 h'r	1 h'r	hv'y	nw.	sleeting.
Bk. Bergenseren, N. 35° 00′ W. 24° 55′†	30.50	774.7				ne.			2				ne.	0	0	2	e.	foggy.
Bk. Celestina, N. 2° 04′, W. 28° 33′*†	29.93	760.2				ene.			1		10		ene.	8 h'r	8 h'r	mod.	n.	
S. S. Compton, Cardenas, Cuba, W. I.†	30.16	766.1				sse.			2		0			0	0			clear.
Bk. E. L. Pettingill, S. 11° 41′, W. 105° 58′†	30.00	762.0				ne.			3		1		ene.	0	0	sm'l		clear.
Ship Exporter, N. 38° 20′, W. 66° 50′*†	30.50	774.7				nw.			6		2		nw.	0	0	mod.	nw.	very fine.
Ship Festina Lente, N. 61° 39′, W. 1° 27′*	29.38	746.2	46	7.8		nne.			2		1		ne.	1 h'r	1 h'r	mod.	wnw.	clear.
U.S.F.C.S.S. Fish Hawk, Washington, D. C.†	30.42	772.7	43	6.1	67	s.			3		5		s.	0	0			fair.
Bk Freya, Baltimore, Md.			41	5.0		ssw.			2		0			0	0			fair.
S. Grecian, S. 7° 47′ W. 32° 46′*†	29.97	761.2	82	27.8		ese.			4		1		ese.	0	0	sm'h	n.	clear.
Bk. Geo. Booth, Cape Good Hope Africa*†	29.75	755.6				sse.			8		0			0	0			clear.
Bk. Granville, S. 31° 12′, W. 20° 51′*†	30.29	769.4				nne.			4				nne.	hv'y	hv'v	r'gh	ese.	heavy rain.
S. Hedwig, N. 59° 45′, W. 2° 34′	29.39	746.4	42.6	5.9	85	nne.			3		6		nne.	4 h'r	4 h'r	4	w.	squally.
Schr. Henry Denison, N. 13° 16′, W. 66° 16′†	30.06	763.5				ne.			3		3		ene.	sh'rs	shr's	light	ne.	fair.
Bk. Johanne Auguste, S. 2° 22′, E. 89° 28′*.	29.75	755.6				calm			0		5?		nw.	4 h'r	4 h'r	cross		cloudy?.
Bg. John Wesley, N. 24° 53′, W. 79° 03′†	30.16	766.1	78	25.6		se.			3		0			0	0	sm'h		clear.
Bkt. Josephine, N. 14° 18′, W. 77° 33′*†	30.18	766.6	80	26.7	74	ese.			5		2		e.	0	0	mod.	e.	fair.
Bk. Liberia, N. 35° 57′, W. 60° 30′*	30.27	768.8				nw.			6		3			0	0			clear.
Schr. Maggie Abbott, N. 32° —′ W. 75° —′*†	30.35	770.9				nne.			4				ne.	0	0	short	n.	clear.
S. S. Nebo, N. 15° 15′, W. 49° 28′*†	29.98	761.5				ene.			3		1		ene.	1 h'r	1 h'r	mod.	ene.	clear.
Bk. Peppina, N. 36° 31′, W. 3° 27′†	29.99	761.7	67	19.4	74	wsw.			2		0					sm'h		clear.
Bk Pilgrim, S. 44° 10′, E. 115° 30′*†	30.30	769.6				w.			3		0			0	0	long	w.	clear
Bg. Potomac, N. 30° 55′, W. 65° 18′*†	30.25	768.3				n.			3				ne.			hv'y	nw.	cloudy.
Bkt. Spotless, N. 29° 05′, W. 41° 23′*†	30.00	762.0				ese.							se.			mod	se.	clear.
Bk. Stella, S. 56° 55′, W. 67° 42′*.	29.50	749.3	43.2	6.2	92	sw.			7		8			0	0			squally.
S. S. Victoria J. Peed, N. 27° 24′, W. 73° 28′						ne.												
Bg. Wauburn, S. 9° 20′, W. 26° 22′*†	30.10	764.5				ese.			5		3		ene.			sm'h		
S. Wm. Woodbury, N. 57° 07′, E. 3° 08′*†	29.45	748.0	48	8.9	85	w.			4				nw.			mod.	sw.	cloudy.



Data, as appearing in the International Bulletin of similar date.

Isobars in *black* exhibit atmospheric pressure at sea level, and are charted from data as reported by the several observers.

Isotherms in *red* exhibit temperature of air, similarly charted.

Broken or dotted lines indicate that the lines so broken are doubtful.

Arrows, when charted, fly with the wind and exhibit wind-direction and force.

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W. B. Hazen

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

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INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON MARCH 27, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours	.....	.....	30.06	763.4	58.6	14.8	93	sw.	.....	.....	7	.....	10	.....	.....	0.189	4.8	covered	Molroud.
Algiers	.....	.....	.....	.....	58.3	14.6	81	ne.	.....	.....	1	.....	10	.....	.....	0.343	8.7	covered	Nicolas.
La Calle	.....	.....	29.96	761.0	55.4	13.0	87	n.	.....	.....	3	.....	5	.....	.....	0.118	3.0	cloudy	Fonfréde.
Tunis	.....	.....	29.89	759.3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.07	763.8	51.6	10.9	68	n.	.....	.....	1	.....	5	.....	.....	0.079	2.0	cloudy	Dumas.
Tebessa	.....	.....	.....	.....	67.3	19.6	39	sw.	.....	.....	1	.....	2	.....	.....	0	0	fair	Derché.
Geriville	.....	.....	.....	.....	63.7	17.6	34	nnw.	.....	.....	2	.....	2	.....	.....	0	0	fair	Lonchamp.
Laghouat	.....	.....	30.10	764.4	66.9	19.4	77	sw.	.....	.....	1	.....	0	.....	.....	0	0	clear	Herbin.
Biskra	.....	.....	30.04	763.1	77.0	25.0	18	ssw.	.....	.....	2	.....	4	.....	.....	0	0	cloudy	Malau.
Australian.																			
Melbourne, Victoria	29.76	755.9	29.85	758.2	61.0	16.1	86	s.	2	0.9	.....	.....	6	.....	.....	0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.21	742.0	29.77	756.2	42.1	5.6	94	ne.	.....	.....	2	.....	10	.....	.....	0.772	19.6	raining.	Prof. Ivan Stozir.
Cracow, I. R Observatory	28.95	735.4	29.72	754.8	51.1	10.6	44	wsw.	12.5	5.6	.....	.....	7	.....	.....	0.024	0.6	.....	Dr. Wierzbiski.
Eperies	28.84	732.5	29.72	755.0	45.3	7.4	83	calm	.....	.....	0	.....	10 k	.....	n.	0	0	.....	Julius Mikolik.
Gratz	28.54	724.9	29.80	756.9	46.9	8.3	76	sw.	.....	.....	2	.....	10	.....	.....	0.118	3.0	.....	Andreas Rospini.
Hermannstadt	28.32	719.4	29.73	755.2	57.9	14.4	45	s.	.....	.....	3	.....	2	.....	.....	0	0	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.52	724.4	29.89	759.3	39.6	4.2	70	w.	.....	.....	4	.....	10	.....	.....	0.083	2.1	raining.	The Staff.
Lemberg	28.76	730.5	29.74	755.4	52.0	11.1	51	sw.	.....	.....	1	.....	9	.....	.....	0	0	.....	Dr. T. Stanecki.
Pola	29.52	749.7	29.63	752.6	50.7	10.4	68	ese.	.....	.....	5	.....	10	.....	.....	0.417	10.6	.....	I. R. Hydrographic Office.
Szathmar	29.29	743.9	29.74	755.5	56.8	13.8	45	s.	.....	.....	1	.....	4	.....	.....	0.130	3.3	.....	Joseph Midlinszky, S. J.
Szegedin	29.45	748.0	29.72	755.0	56.5	13.6	50	calm	.....	.....	0	.....	5	.....	.....	0	0	.....	Karl Stancel.
Trieste	29.56	750.9	29.67	753.5	48.6	9.2	63	ne.	.....	.....	6	.....	8	.....	.....	0.035	0.9	.....	Rieder.
Vienna	29.10	739.1	29.83	757.6	45.0	7.2	54	w.	.....	.....	5	.....	7	.....	.....	0	0	.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.58	751.3	29.68	753.9	48.9	9.4	45	wnw.	35	15.6	.....	.....	6	.....	.....	0.010	0.3	squally	W. Boswell.
Armagh, Observatory	29.83	757.7	30.08	764.0	49.6	9.8	62	w.	20	8.9	.....	.....	7	.....	.....	.....	.....	d. clouds	S. Call.
Bidston, Liverpool Obs'y	.....	.....	30.04	763.0	49.1	9.5	71	w.	41	18.3	.....	.....	7	.....	.....	.....	.....	d. clouds	John Hartnup.
Bolton, Sharples	29.50	749.3	30.04	763.0	44.9	7.2	80	w.	24	10.7	.....	.....	10	.....	.....	.....	.....	overcast	Thomas Mackereth, [A.S.
Bradford, Yorkshire	29.66	751.8	29.99	761.7	47.1	8.4	79	w.	.....	.....	2	.....	10	.....	.....	0.01	0.3	overcast	J. McLandsborough, F. R
Bridgetown, Barbadoes	30.05	763.3	30.08	764.0	80.0	26.7	70	ne.	.....	.....	2	.....	6	.....	.....	.....	.....	gloomy	Pvt. J. Surgenor, A. H.C.
Cardington	.....	.....	30.07	763.8	52.4	11.3	66	nw.	.....	.....	2.0	.....	8	.....	.....	.....	.....	overcast	John McLaren.
Chatham, School M. E.	30.01	762.2	30.14	765.5	48.5	9.2	71	nw.	.....	.....	1	.....	9	.....	.....	.....	.....	d. clouds	Lance Opl. G.A. Pickles.
Falmouth, Observatory	30.07	763.8	30.31	769.9	51.0	10.6	62	nnw.	.....	.....	4	.....	5	.....	.....	.....	.....	d. clouds	The Staff.
Fort Napier, Natal	27.70	703.6	29.91	759.7	87.0	30.6	52	se.	.....	.....	1	.....	0	.....	.....	.....	.....	blue sky	Pvt. E. K. Annis, 1A. H.C.
Free Town, Sierra Leone	29.64	752.8	29.87	758.7	88.0	31.1	66	nw.	.....	.....	1	.....	3	.....	.....	.....	.....	blue sky	Sergt. John Robinson.
Galway, Queen's College	.....	.....	30.15	765.8	.....	.....	.....	wsw.	.....	.....	4	.....	10	.....	.....	.....	.....	overcast	J. O'Donaghue.
Gibraltar, Mediterranean	30.10	764.5	30.15	765.8	64.5	18.1	78	e.	.....	.....	6	.....	7	.....	.....	.....	.....	d. clouds	Opl. O. Baldwin.
Glasgow, Observatory	29.64	752.8	29.84	757.9	49.4	9.7	81	w.	.....	.....	7	.....	9	.....	.....	.....	.....	squally	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.96	761.0	30.14	765.5	47.7	8.7	69	wnw.	.....	.....	2	.....	10	.....	.....	.....	.....	overcast	The Staff.
Guernsey	30.04	763.0	30.34	770.0	48.0	8.9	77	nw.	.....	.....	3	.....	9	.....	.....	.....	.....	d. clouds	A. Collenette, F. M. S.
Kew, Observatory	30.11	764.8	30.15	765.8	49.6	9.8	64	wnw.	15	6.7	.....	.....	7	.....	.....	.....	.....	d. clouds	The Staff.
Leicester, Museum	29.80	756.9	30.06	763.5	49.8	9.9	90	nw.	.....	.....	2	.....	10	.....	.....	blank	blank	overcast	J. O. Smith.
Malta, Mediterranean	29.77	756.1	29.84	757.9	65.0	18.3	76	nw.	.....	.....	2	.....	1	.....	.....	.....	.....	blue sky	I. H. Whysall.
Nassau, Bahamas	30.22	767.6	30.27	768.8	76.5	24.7	69	se.	.....	.....	1	.....	7	.....	.....	.....	.....	d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.58	751.3	30.11	764.8	47.3	8.5	66	w.	.....	.....	4	.....	7	.....	.....	.....	.....	squally	John Mac Email.
Oxford, Radcliffe Obs'y	29.91	759.7	30.14	765.5	48.8	9.3	65	wsw.	.....	.....	5	.....	10	.....	.....	.....	.....	threatening.	The Staff.
Plymouth	30.18	766.6	30.26	768.6	54.0	12.2	64	nw.	.....	.....	3	.....	5	.....	.....	.....	.....	d. clouds	John Merrifield.
Sandwick Manse, Orkneys	.....	.....	29.47	748.5	43.8	6.6	69	w.	49	21.9	.....	.....	2	.....	.....	.....	.....	showery	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.75	755.0	29.82	757.4	57.0	13.9	76	sw.	.....	.....	1	.....	3	.....	.....	.....	.....	d. clouds	W. H. Lyne.
Sheffield	29.73	755.1	30.01	762.2	48.9	9.4	71	wnw.	.....	.....	4	.....	10	.....	.....	inap.	inap.	overcast	W. F. Cooper.
Silloth Rectory	29.90	759.4	29.93	760.2	49.5	9.7	71	w.	.....	.....	5	.....	4	.....	.....	0.045	1.2	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	30.04	763.0	46.0	7.8	76	w.	24	10.7	.....	.....	10	.....	.....	.....	.....	overcast	R. S. J. Perry.
Stratfield Turgiss	29.95	760.7	30.17	766.3	51.7	10.9	72	nw.	.....	.....	3	.....	9	.....	.....	.....	.....	squally	Rev. C. H. Griffiths, F.M.S.
Truro, Royal Institution	30.28	769.1	30.33	770.4	57	13.9	62	nw.	.....	.....	7	.....	6	.....	.....	.....	.....	d. clouds	W. Newcombe.
Valencia, Observatory	30.27	768.8	30.30	769.6	50.6	10.3	64	w.	20	8.9	.....	.....	10	.....	.....	blank	blank	misty	The Met'g'l Office.
Canadian.																			
Bathurst, N. B	.....	.....	.....	.....	26.0	— 3.3	.....	nw.	1	0.4	.....	0	2 s	.....	.....	0	0	clear	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.12	765.0	30.17	766.3	25	— 3.9	92	s.	6	2.7	.....	.....	10 n	.....	.....	inap.	inap.	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	30.05	763.3	30.12	765.0	16	— 8.9	91	calm	0	0	.....	5 ck	0	s.	.....	0	0	fair	G. A. Blair.
Cornwall, Ontario	29.43	747.5	29.62	752.3	32.2	0.1	92	c.	.....	.....	1	.....	10 s	.....	.....	0.026	0.7	cloudy	James Smith, M. A.
Dalhousie, N. B	29.87	758.7	30.05	763.3	19.0	— 7.2	.....	calm	.....	.....	0	0	8 ks	.....	.....	0	0	cloudy	H. A. Johnson.
Father Point, Quebec*	29.91	759.7	29.93	760.2	27	— 2.8	88	s.	7	3.1	.....	8 c	2 s	.....	.....	0	0	threatening.	J. McWilliams.
Fort Garry, Manitoba*	29.27	743.4	30.21	767.3	— 8	—22.2	100	n.	10	4.5	.....	0	0	.....	.....	0	0	clear	James Stewart.
Fredericton, N. B	30.05	763.3	30.12	765.0	26.1	— 3.3	86	sw.	1	0.4	.....	.....	fg.	.....	.....	0	0	foggy	Prof. Harrison.
Granton, Ontario	28.29	718.6	29.40	740.7	41.0	5.0	100	s.	.....	.....	2	.....	10 n	.....	.....	0.23	5.8	cloudy	James Grant.
Halifax, N. S*	30.11	764.8	30.24	768.1	30	— 1.1	88	s.	8	3.6	.....	.....	10 s	.....	.....	0	0	cloudy	A. Allison.
Hamilton, Ontario	29.00	736.6	29.39	746.5	47.2	8.4	92	sw.	.....	.....	4	10 cs	0	w.	.....	0.08	2.0	cloudy	Geo. Dickson, B. A.
Kingston, Ontario*	29.25	742.9	29.58	751.3	42	5.6	82	se.	18	8.0	.....	.....	10 n	.....	sw.	0.23	5.8	rainy	A. P. Knight, M. A.
Little Glace Bay, N. S	29.15	740.4	30.19	766.8	25.8	— 3.4	81	sw.	.....	.....	4	7 k	0	sw.	.....	0	0	fair	C. H. Rigby.
Montreal, Quebec*	29.49	749 0	29.70	754.4	37	2.8	85	se.	16	7.2	.....	.....	10 ks	.....	w.	0.05	1.3	cloudy	C. H. McLeod, C. E.
Parry Sound, Ontario*	28.63	727.2	29.32	744.7	42	5.6	100	s.	16	7.2	.....	.....	10 n	.....	s.	1.00	25.4	light rain	Rev. R. Mosley.
Peterboro, Ontario	28.72	729.5	29.47	748.5	42.7	5.9	91	s.	.....	.....	1	.....	10 n	.....	.....	0.70	17.8	raining	J. Dixon, B. A.
Port Dover, Ontario	28.76	730.5	29.45	748.0	44	6.7	100	s.	15	6.7	.....	.....	10 n	.....	sw.	0.31	7.9	threatening.	H. Morgan.
Port Stanley, Ontario	28.80	731.5	29.44	747.8	42	5.6	100	sw.	4	1.8	.....	.....	10 n	.....	sw.	0.28	7.1	cloudy	M. Payne.
Quebec, Quebec*	29.57	751.1	29.90	759.4	28	— 2.2	92	ne.	.....	.....	5	.....	10 n	.....	ne.	0.01	0.3	light snow	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.00	736.6	29.46	748.3	32	0.0	88	se.	12	5.4	.....	.....	10 s	.....	se.	0.32	8.1	light rain	W. H. McIntyre.
Saugeen, Ontario*	28.58	725.9	29.27	743.4	48	8.9	89	s.	18	8.0	.....	.....	10 s	.....	.....	0.76	19.3	cloudy	
St. Andrews, N. B	30.03	762.7	30.08	764.0	34	1.1	94	sw.	4	1.8	.....	.....	10 n	.....	.....	inap.	inap.	cloudy	
St. John, N. B	29.93	760.2	30.10	764.5	33.0	0.6	89	sw.	16	7.2	.....	.....	10 s	.....	.....	0	0	cloudy	G. Murdock, C. E.
St. Pierre, N. F	.....	.....	30.10	764.5	14.7	— 9.6	.....	nw.	.....	.....	3	.....	.....	.....	.....	0	0	.....	N. F. Land, Com't.
Stratford, Ontario	28.09	713.5	29.35	745.5	46.0	7.8	92	sw.	15	6.7	.....	.....	10 s	.....	.....	0.675	17.2	cloudy	C. I. Macgregor, M. A.
Sydney, C. B*	30.17	766.3	30.23	767.8	20	— 6.7	80	sw.	11	4.9	.....	10 cs	0	w.	.....	0	0	cloudy	T. C. Hill, C. E.
Toronto, Ontario*	29.08	738.6	29.46	748.3	41	5.0	100	e.	6	2.7	.....	.....	fg.	.....	.....	0.31	7.9	threatening.	Magnetic Observatory.
Windsor, N. S	30.08	764.0	30.18	766.6	29.0	— 1.7	83	e.	0	2.7	.....	.....	10 n	.....	.....	0.20	5.1	snowing	Prof. W. R. Butler.
Woodstock, Ontario	28.36	720.3	29.41	747.0	48.5	9.2	93	se.	20	8.9	.....	6 c	4 ks	.....	.....	0.82	20.8	cloudy	Prof. Wolverton
Yarmouth, N. S*	30.10	764.5	30.17	766.3	33	0.6	92	se.	6	2.7	.....	5 k	5 s	w.	sw.	0.01	0.3	cloudy	Lt. F. E. Wilmot, R. N.
Sub-series.																			
St. Johns, Newfoundland	29.78	756.4	30.05	763.3	17	— 8.3	.....	w.	5	2.2	.....	0	0	.....	.....	1.00	25.4	.....	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.11	764.8	30.14	765.5	71.0	21.7	94	e.	16.0	7.2	.....	.....	10 ks	.....	.....	0	0	hazy	John Duthie.
Cape Town, C. G. H. Obs'y	29.89	759.2	29.93	760.2	81.0	27.2	53	n.	12	5.4	.....	9	9	.....	.....	1.820	46.2	.....	The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	OBSERVERS.
CHINESE (*Sub-series*).																			
Hankow																			N. Titoushkin.
Zi-Ka-Wei, near Shanghai.	30.32	770.2	30.35	770.8	42.6	5.9	64	se.	1.1	0.5		6 cs	0	wsw.		0	0	very cloudy	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	29.68	753.9	29.73	755.1	40.6	4.8	90	nnw.	13	6			3						Oversergent Fischer.
Fanöe	29.77	756.2	29.79	756.7	43.9	6.6	77	w.			4		9						Overloerer Lauridsen.
Godthaab, Greenland	29.72	755.0	29.77	756.1	15.3	— 9.3	91	calm			0		10						S. Kleinschmidt.
Stykkisholm, Iceland	29.21	741.8	29.25	742.9	28.0	— 2.2	92	calm			0		8						A. O. Thorlacius.
Thorshavn	29.27	743.4	29.30	744.3	39.2	4.0	73	nw.	16	7			4						Overloerer Bergh.
Vestervig	29.63	752.7	29.72	755.0	42.8	6.0	76	w.			4		5						Loearer Oesterbol.
FRENCH.																			
Agen, Normal School	29.56	750.8	30.22	767.6	49.3	9.6	56	nw.			2		kn		n.	0	0		M. Labroue, Director.
Alençon, Normal School	29.69	754.2	30.24	768.2	50.0	10	86	n.			2		kn		s.	0.055	1.4		M. Nicot, Director.
Arras, Engineer School	29.87	758.7	30.13	765.3	48.7	9.3	73	nw.			2		k		nw.	0.177	4.5		M. Klein, Commandant.
Avignon, Normal School	29.87	758.6	29.95	760.6	50.0	10	50	n.			4		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.58	751.4	30.15	765.9	44.6	7.0	69	nnw.			3		10		n.	0.067	1.7	covered	M. Saillard, Director.
Beauvais, Normal School	29.91	759.8	30.18	766.6	48.6	9.2	46	n.			2		2		nnw.	0.12	3.	slightly cl'dy	M. Frère Eugène Mari.
Besançon, Normal School	29.26	743.3	30.19	766.7	42.3	5.7	82	s.			3		10 n		nw.	0.098	2.5	rain & hail	M. Gobin, Director.
Bordeaux, Observatory	30.00	762.1	30.27	768.9	50.2	10.1	46	nnw.			1		8		n.	0.150	3.8	very cloudy	M. Rayet, Director.
Bourges, Normal School	29.60	751.8	30.17	766.2	50.9	10.5	52	nw.			1		8		nw.	0.268	6.8		M. Postel, Director.
Brest, Naval Observatory	30.13	765.2	30.37	771.4	52.2	11.2	61	n.			2		10		n.	0	0		M. de Kermaree, Dir.
Caen, Normal School	30.15	765.8	30.23	767.8	54.3	12.4	57	nw.			3		5		nw.	0	0	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.74	755.3	30.06	763.6	49.1	9.5	61	wnw.			3		5		ne.	0	0	cloudy	M. Jadot, Director.
Charleville, Normal School	29.55	750.6	30.08	763.9	45.0	7.2	77	nw.			3		10		s.	0.449	11.4	covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.78	730.9	30.17	766.2	45.0	7.2	55	nnw.			2		8		nnw.	0.154	3.9	¾ covered	M. Allnard, Director.
Cluny, Normal School	29.22	742.3	30.09	764.3	42.8	6	56	nnw.			4		7		nnw.	0.012	0.3		M. de Villemontée, Dir.
Commercy, Normal School	29.21	741.8	30.09	764.2	46.2	7.9	57	wnw.			1	c	8 n	wnw.	wnw.	0.35	9.	very cloudy	Dr. Coulet, Director.
Gap, Normal School	27.36	694.9	29.90	759.5	50.0	10	79	se.			4					0	0		M. Jeangirard, Director.
Gréasque, du. Rhone	28 68	728.5	29.82	757.3	49.8	9.9	47	nw.			6		2		sw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.21	742.c	30.01	762.2	41.0	5	71	nnw.			3		10 kn		ne.	0.67	17.	raining	M. Ablard, Director.
Guéret, Normal School	28.61	726.8	30.31	769.8	41.5	5.3	50	n.			3		kn		s.	0	0		M. Rivoire, Director.
Lamballe, Normal School	30.05	763.3	30.33	770.3	50.0	10	70	nw.			3		8		nw.	0.012	0.3	very cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.71	754.6	30.28	769.2	50.0	10	50	nnw.			1		5			0.339	8.6	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	30.27	768.8	30.37	771.4	53.6	12.0	65	nw.			2		10		n.	0.051	1.3	covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.01	736.8	30.09	764.2	43.5	6.4	42	nw.			3		8		n.	0.012	0.3	¾ covered	M. André, Director.
Mans, Normal School	29.96	760.9	30.27	768.9	50.0	10	52	ne.			4		5		ne.	0.024	0.6	cloudy	M. Piboen, Director.
Marseille, Observatory	29.54	750.4	29.82	757.3	51.3	10.7	44	nw.			8		1		nw.	0	0		M. Stephan, Director.
Montlouis l'Instituteur	24.73	628.1	29.57	751.1	27.5	— 2.5	80	nw.	28.0	12.5			6		w.	0.512	13.0		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.85	758.1	29.97	761.3	53.6	12	40	nw.			6		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.28	743.7	30.08	763.9	45.7	7.6	61	w.			1	0	8 kn		nw.	0.16	4	very cloudy	M. Hasse, Director
Nantes, Observatory	30.17	766.4	30.34	770.6	54.9	12.7	51	n.			1–3	ck	8 k;kn	n.	nnw.	0	0		M. Larocque, Director.
Perpignan, Observatory	29.97	761.1	30.08	763.9	50.7	10.4	39	n.	40.9	18.3			9		nw.	0.047	1.2		Dr. Fines, Director.
Pic-du-Midi, Summit	21.05	534.6			6.8	—14.0		e.			3-4		10		e.	1.811	46.0	snowy	Gen'l de Nansouty, Dir.
Privas, Normal School	28.95	735.4	30.04	763.1	45.7	7.6	51						0			0.12	3.	clear	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.09	637.3			23.4	— 4.8	100	nnw.			6		10			0.744	18.9	foggy	M. Allnard, Director.
Rochefort, Naval Obs'y	30.26	768.6	30.29	769.4	57.2	14.0	76	nnw.			1		2		nnw.	0	0	¼ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	30.07	763.8	30.29	769.3	52.9	11.6	56	nnw.			1		0			0	0	clear	M. Mouillot, Director.
Rodez, Normal School	27.94	709.6	30.16	766.0	40.3	4.6	71	w.			1		10		se.	0.08	2.	covered	M. Serger, Director.
Rouen, Normal School	30.16	766.0	30.21	767.2	51.1	10.6	53	nw.			3		5			0.04	1.	cloudy	M. Platrier, Director.
Saint Maur, Observatory	30.00	762.1	30.17	766.3	49.8	9.9	42	n.			3		1		n.	0.126	3.2		M. Renou, Director.
Toulouse, Observatory	29.49	749.0	30.22	767.5	48.7	9.3	47	nnw.			4		5		nw.	0.142	3.6	cloudy	M. Bailland, Director.
Versailles, Observatory	29.68	753.9	30.17	766.4	49.3	9.6	44	n.			3					0.028	0.7		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.88	759.0	30.17	766.4	50.9	10.5	43	nw.			3		3		nnw.	0.016	0.4		M. Marié Davy, Director
GERMAN.																			
Bamberg	29.03	737.3	29.88	758.9	42.8	6.0	55	nw.			4	0	8s;k		nw.	0.16	4.		Prof. Dr. Hoh.
Berlin	29.43	747.5	29.61	752.0	44.6	7.0	85	nw.			2		10			0.244	6.2		Prof. Dr. Arndt.
Breslau	29.13	740.0	29.66	753.3	47.5	8.6	54	sw.			3		8			0	0		Royal University Obs'y.
Carlsruhe	29.56	750.8	30.00	762.1	40.0	7.8	75	sw.			2		8	nw.		0.307	7.8	rain & hail	Albert Senz.
Cassel	29.13	739.8	29.84	757.9	46.2	7.9	51	nw.			6		6	wnw.		0.075	1.9		Dr. H. Möhl.
Frankfort on the Main	29.57	751.0	29.94	760.4	47.5	8.6	55	nw.			1		7			0.252	6.4		Physical Society.
Friedrichshafen	28 55	725.1	30.02	762.5	41.2	5.1	77	sw.			5		8	w.		0	0		Wilhelm, Chief Tel.
Hamburg	29.69	754.2	29.79	756.6	46.4	8.0	65	n.			6		6			0.594	15.1		E. Preller.
Kiel	29.68	753.8	29.69	754.2	45.1	7.3	63	nw.			2		3			0.587	14.9		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.28	743.6	29.71	754.5	38.5	3.6	97	wnw.			4		10	nw.		0.681	17.3	light rain	H. Leppig, Asst.
Magdeburg	29.52	749.7	29.71	754.6	40.6	4.8	90	nw.			5		10n			0.008	0.2	raining	Dr. Assmann.
Memel	29.69	754.0	29.73	755.2	45.7	7.6	77	s.			1		10 8						Issermann.
Munich	28.08	713.1	29.93	760.2	39.4	4.1	68	nw.			6		9	nw.		0.083	2.1		Central Station.
Neufahrwasser	29.65	753.2	29.67	753.6	44.1	6.7	77	ene.			2		10	ese.		0	0		A. Lothes.
Neustadt, Palatinate	29.43	747.5	29.95	760.8	46.8	8.2	67	w.			3		8	w.		0.020	0.5		Dicknether.
Stuttgart	29.02	737.0	29.92	760.0	46.4	8.0	46	w.			2		7	nw.		0.077	1.7		Prof. Dr. Schoder.
Wustrow	29.66	753.3	29.68	753.9	40.8	4.9	87	n.			4		10			0.142	3.6		Profs. Brandes & Reimer.
GREEK.																			
Athens	29.49	749.1	29.88	759.0	64.2	17.9		sw.			2.0	1 c	0			0	0		Schmidt & Wourlisch.
INDIAN.																			
Bellary	28.29	718.6			102.0	38.9	9	w.	10.5	4.7		0	0			0	0	blue sky	
Kurrachee	29.79	756.7	29.84	758.0	78.7	25.9	48	wsw.	44	19.7			0			0	0	blue sky	
Leesa	29.31	744.5	29.77	756.2	94.3	34.6	36	wsw.	13.3	5.9			2	w.		0	0	misty	
Bombay	29.80	756.9	29.84	757.8	90.1	32.3	44	nnw.	19	8.5			0			0	0	blue sky	
Poona, Yarrowda	27.98	710.8	29.79	756.6	94.6	34.8	11	wnw.	25	11.2			0			0	0	blue sky	
Belgaum	27.30	693.3	29.77	756.2	88.5	31.4	50	sw.	9	4.0			0			0	0	blue sky	
Lahore	28.76	730.5	29.48	748.7	92.6	33.7	16	nw.	3.9	1.7			10			0	0	misty	
Roorkee	28.78	731.1	29.66	753.4	89.0	31.7	33	se.	4.3	1.9			2			0	0		
Agra	29.11	739.3	29.65	753.0	100.4	38.0	14	nw.	3.7	1.6			0			0	0		
Nagpur	28.69	728.6	29.79	754.1	99.3	37.4	17	nw.	4.9	2.2			0			0	0	blue sky	
Jubbulpore	28.40	721.3	29.71	754.6	97.4	36.3	12	nw.	4.3	1.9			0			0	0	blue sky	
Lucknow	29.34	745.3	29.71	754.6	94.0	34.4	25	sse.	2.9	1.3			4			0	0	blue sky	
Allahabad	29.39	746.5	29.69	754.2	96.0	35.6	21	ne.	1.4	0.6			1	w.		0	0	d. clouds	
Patna	29.60	751.8	29.78	756.5	84.4	29.1	56	ene.	7.9	3.5			4	ene.	ene.	0	0	d. clouds	
Hazaribagh	27.75	704.9	29.71	754.6	91.3	32.9	11	nw.	7.6	3.4			4			0	0	misty	
Cuttack	29.67	753.7	29.75	755.7	85.0	29.4	67	ssw.	9.3	4.2			0			0	0		
Calcutta, Alipore	29.71	754.7	29.74	755.3	84.1	28.9	70	ssw.	11.0	4.9			1	sw.		0	0	d. clouds	
Dhubri	29.73	755.2	29.86	758.3	73.4	23.0	86	se.	12.3	5.5			9			0.24	6.1	gloomy	
Chittagong	29.81	757.2	29.90	759.6	69.6	20.9	91	e.	7.4	3.3			10			0.11	2.8	drizzling	
Sibsagar	29.55	750.5	29.89	759.2	70.4	21.3	88	e.	4.7	2.1			7	w.	w.	0.10	2.5	d. clouds	
Jeypore	28.27	718.0	29.66	753.4	95.6	35.3	16	wnw.	7.5	3.4			0			0	0	blue sky	
Zanzibar, Africa	29.89	759.2			78.5	25.8	87	se.	3.7	1.7			10			1.54	39.1	raining	
Trichinopoly	29.49	749 0			99.5	37.5	31	ne.	1	0.4			1c			0	0	overcast	
ITALIAN.																			
Udine	29.31	744.4	29.72	754.8	49.6	9.8	49	n.	2.5	1.1			10			1.197	30.4		Prof. Giovanni Clodig.
Milan	29.23	742.5	29.75	755.6	55.4	13.0	16	n.	13.0	5.8			3	ssw.		0.220	5.6		Prof. Schiaparelli.
Padua	29.65	753.0	29.76	755.8	47.5	8.6	65	nne.	14.3	6.4			1c			0.654	16.6		Prof. Dott. Lorenzoni.
Moncalieri	28.85	732.9	29.77	756.1	53.8	12.1	20	n.	5.6	2.5			5	ne.		0	0		Prof. P. F. Denza.
Genoa	29.50	749.4	29.70	754.3	56.5	13.6	21	ne.	10.5	4.7			4	nw.		0	0		Prof. G. M. Garibaldi.
Mondovi	27.84	707.0	29.75	755.7	48.7	9.3	21	nw.			6		2	ssw.		0	0		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
ITALIAN.—Continued.																			
Pesaro	29.69	754.0	29.73	755.2	46.4	8.0	80	n.	23.0	10.3			10	n.		0.098	2.5		Prof. Luigi Guidi.
Florence	29.43	747.5	29.69	754.0	52.9	11.6	57	ne.			6		5			0.283	7.2		Prof. Costantino Pitter.
Leghorn	29.45	748.0	29.54	750.2	47.8	8.8	27	ne.	15.0	6.7			10			0.130	3.3		Prof. P. Monte.
Rome	29.55	750.5	29.72	754.9	59.7	15.4	48	wsw.	17.4	7.8			8			0	0		Prof. P. S. Ferrari.
Lecce	29.56	750.8	29.81	757.2	63.0	17.2	61	ssw.	15.0	6.7			9	sw.		0	0		Prof. C. de Giorgi.
Cosenza	28.93	734.8	29.82	757.3	58.3	14.6	74	wsw.	3.8	1.7			9	sw.		0.012	0.3		Prof. D. Conti.
Cagliari	29.60	751.7	29.79	756.6	56.1	13.4	41	nw.			4		7	sw.		0.031	0.8		Prof. A. Pacinotti.
Palermo	29.57	751.1	29.82	757.5	66.2	19.0	50	w.	6.9	3.1			8	w.		0	0		Prof. G. Ciaccíatore.
Syracuse	29.73	755.1	29.78	756.3	68.2	20.1	62	se.	7.4	3.3			6	w.		0	0		Prof. Vincenzo Guiliano.
Sub-series.																			
Naples, S. R	29.24	742.7	29.76	755.9	59.0	15.0	63	wsw.	9.4	4.2			9	sw.		0.020	0.5		Prof. T. Brioschi.
Stelvio	21.88	555.6			16.3	— 8.7	76	ne.			4		10			0	0	misty	Prof. P. F. Denza.
Valdobbia	21.90	556.3			23.7	— 4.6	59	w.			2		0			0	0	covered	Prof. P. F. Denza.
JAPANESE.																			
Aomori	29.56	750.8	29.60	751.8	36.8	2.7	69	w.	28.6	12.8			10 8			0.213	5.4	overcast	K. Ogawa.
Hakodate	29.53	750.0	29.54	750.3	33.2	0.7	83	n.	4.8	2.1			8		nw.	0.034	0.9	cloudy	
Hiroshima, I. M. Obs'y †	30.03	762.7	30.05	763.3	40.9	4.9	78	nne.	4.0	1.8		6 ck	0	w.		0	0	fair	K. Sasaki.
Kanazawa	29.89	759.2	29.99	761.7	38.2	3.4	88	se.	6.1	2.7		ck	8 n		nw.	0.240	6.1	cloudy	S. Endo.
Kioto	29.83	757.7	30.01	762.2	37.3	2.9	91	wsw.	1.0	0.4		ck	1 8			0	0	clear	M. Tojima.
Kochi	30.04	763.0	30.06	763.5	44.1	6.7	70	nw.	7.7	3.4		5 ck	0	w.		0	0	fair	
Nagasaki, I. M. Obs'y	29.93	760.2	30.14	765.5	46.7	8.2	60	nw.	4.5	2.0		ck	9 8			0.610	0.3	cloudy	S. Takahayashi.
Niigata	29.85	758.2	29.88	758.9	41.8	5.4	64	w.	27.5	12.3		6 ck		w.	w.	0.095	2.4	cloudy	
Nobiru	29.72	754.9	29.74	755.4	38.6	3.7	79	w.	8.1	3.6			10 n					light rain	H. Midzushina.
Sapporo					33.6	0.9	80	nw.	7.8	3.5			4			0.365	9.3	clear	
Tokei Obs'y, Yeddo	29.78	756.1	29.85	758.2	41.3	5.2	59	nne	7.7	3.4		0	0			0	0	clear	The Staff.
Wakayama	29.98	761.5	30.03	762.7	44.1	6.7	75	w.	1.4	0.6		7 ck		wnw.	nw.	0	0	fair	Y. Kuwamuea.
MAURITIUS.																			
Mauritius Observatory	29.82	757.4	30.00	762.0	78.4	25.8	75	se.	15.5	6.9		3ck;os	6 k;ks	nnw.	sse.	0.01	0.3	cloudy	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.72	602.4	29.94	760.4	56.3	13.5	75	se.				4	2	w.	w.	0	0	fair	Vicente Fernandez.
Leon	24.41	620.0	30.12	765.1	58.1	14.5	79	se.			1	0	7		w.	0	0	covered	Prof. M. Leal.
Mazatlan	29.80	756.8	30.06	763.5	65.0	18.3	78	nw.	5.3	2.3		8 cs	0	sw.		0	0	very cloudy	F. Quijano, C. E.
Mexico, Central Obs'y	23.12	587.3	30.20	767.0	54.0	12.2	75	calm	0	0		3	2			0	0		M. Tena, M. D.
Morelia	24.29	617.0	30.45	773.3	56.3	13.5	68	s.			2	3	2	se.	se.	0	0	½ clouded	The Staff.
Pabellon, Aguascalientes	23.97	608.9	30.01	762.2	58.3	14.6	61	nne.			1		10			0	0	covered	M. V. de Leon, M. E.
Puebla, Catholic Institute	23.38	593.8	30.17	766.2	52.7	11.5	81	calm	0	0		0	1		sw.	0	0	clear	Prof. P. Spina.
San Luis Potosi	24.22	615.1	30.14	765.6	62.8	17.1	53	e.			1		10			0	0	covered	G. Barroeta, M. D.
Vera Cruz																			
Zacatecas	22.62	573.8	30.27	768.5	51.4	10.8	67	w.	11.8	5.3		5	0	e.		0	0	½ clouded	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.10	764.5	30.10	764.5	45.7	7.6		wnw.			4					0.476	12.1		
Groningen	29.88	759.0	29.94	760.4	46.0	7.8		nw.			4					0.614	15.6		
Helder	29.98	761.6	29.98	761.6	44.2	6.8		w.			4					0	0		
Hellevoetsluis	30.04	763.1	30.04	763.1	47.3	8.5	72	wnw.			3					1.165	29.6		
Utrecht	29.99	761.7	30.04	762.9	50.4	10.2	68	wnw.			3		5			0.012	0.3	cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.29	743.9	29.35	745.5	34.5	1.4	93	s.	25	11			10			0.622	15.8	snowing	
Brono	29.26	743.1	29.30	744.1	38.8	3.8	48	sw.	18	8			5			0.047	1.2		
Christiania	29.41	747.1	29.56	750.8	46.0	7.8	57	sw.	9	4			10			0	0		
Gjæsvær	29.34	745.2	29.36	745.8	41.2	5.1		sse.			2		0						
Lodingen	29.29	744.0	29 34	745.2	36.0	2.2	53	sse.			6		8			0	0		
PORTUGUESE.																			
Angra, Azores					57.2	14.0	60	ssw.	4.3	1.9			3			0	0		Dr. J. A. Sampaio.
Campo Major	29.17	740.8	30.17	766.2	61.2	16.2	22	ene.	8.1	3.6			0			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.10	764.5	30.19	766.8	64.4	18.0	63	sw.					6			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.87	758.7	30.24	768.0	58.5	14.7	31	nne.	32.2	14.4			0			0	0		The Staff.
Ponta Delgada, Azores	30.40	772.1	30.47	773.9	65.1	18.4	53	calm	0	0			4			0	0		
Saint Paul de Loando	29.67	753.5	29.86	758.5	82.4	28.0	92	wsw.	1.3	0.6			4	sse.		0	0		
Serra da Estrella	25.42	645.7	30.26	768.5	41.0	5.0	35	se.	33.5	15.0			0			0	0		
RUSSIAN.																			
Akmolinski	28.75	730.3	29.89	759.3	21.0	— 6.1	90	wsw.	16	7			9 k;n			0.004	0.1		Major K. Lasarew.
Archangel	29.81	757.1	29.83	757.6	37.6	3.1	84	wsw.	13	6			8 ks			0	0		Capt. Sselliwerstow.
Astrakhan	30.34	770.7	30.26	768.6	35.2	1.8	73	e.	11	5			10 ks			0	0		Capt. Wisganow.
Barnaul	29.43	747.5	29.96	760.9	23.7	— 4.6	79	sw.	9	4			10			0.043	1.1		Meteorological Obs'y.
Dorpat	29.56	750.8	29.81	757.1	39.7	4.3	97	ese.	9	4			10 n			0.110	2.8	raining	Observatory.
Ekaterinburg	28.92	734.6	29.91	759.6	36.0	2.2	80	w.	9	4			10			0	0		Meteorological Obs'y.
Kasan	29.83	757.6	30.11	764.7	41.5	5.3	59	wsw.	11	5			10			0	0		Observatory.
Kertch	29.85	758.2	29.87	758.7	47.3	8.5	60	ene.	11	5		0	0			0	0		Lagorio & Sastyrex.
Kieff	29.26	743.3	29.90	759.5	50.0	10.0	35	ese.	16	7		2 c	0			0	0	light clouds	Observatory.
Lugan	29.92	760.0	30.13	765.2	48 7	9.3	29	e.	34	15			0			0	0		Meteorological Obs'y
Moscow	29.58	751.4	30.07	763.7	49.3	9.6	44	s.	7.8	3.5		0	0			0	0		Meteorological Obs'y.
Nikolaiev	29.89	759.2	29.96	761.0	53.2	11.8	49	calm	0	0		0	0			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor	29.61	752.2	29.70	754.4	29.8	— 1.2	91	ne.	13	6			10			0.071	1.8	snowing	Lieut. Iwanow.
Pekin, China	29.98	761.4	30.12	765.0	45.5	7.5	25	calm	0	0		0	0			0	0		Physical Observatory
St. Petersburg	29.89	759.1	29.90	759.5	42.8	6.0	78	se.	9	4			10 n			0.063	1.6		Central Physical Obs
Tashkend, Laboratory	28.39	721.1	30.02	762.6	35.4	1.9	95	calm	0	0			10			1.142	29.0		Teich, A. M.
Tiflis	28.61	726.6	30.04	763.1	49.5	9.7	41	s.	4	2		0	3 k			0	0		Physical Observatory
Vladivostok	29.76	755 8	29.82	757.5	36.7	2.6	60	nw.	7	3		0	5 k			0	0		
Warsaw	29.26	743.2	29.68	753.9	50.7	10.4	65	ssw.	9	4			9 ks						Astronomical Obs'y
Wilna	29.38	746.2	29.80	757.0	45.9	7.7	80	sse.	7	3			10			0.039	1.0	heavy cl'ds	Berg, Assistant.
Yeniseisk	29.65	753.1	29.95	760.8	25.7	— 3.5	80	w.	7	3			9			0.016	0.4	snowing	M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	29.94	760.4	30.04	763.1	57.9	14.4	40	ne.	8.3	3.7			1			0	0	clouds	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.31	769.9	30.37	771.4	50.7	10.4	84	ne.	4.9	2.2		2	4	nw.		0.441	11.2	cloudy	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.29	693.2	30.35	771.0	44.8	7.1	76	n.	11.4	5.1		0	6			0	0	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27.93	709.5	30.18	766.5	55.8	13.2	36	n.	24.8	11.1		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y	29.93	760.3	30.10	764.4	62.8	17.1	43	nne.	6.0	2.6		0	0			0	0	clear	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.42	747.3	30.34	770.5	54.7	12.6	54	ne.	26.2	11.7			3			0	0	cloudy	R. Gil Vallanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I	30.07	763.9	30.14	765.6	71.0	21.7	78	ese.	6.5	2.9		1 c	0			0	0	fair	Benito Vines, S. J.
Manilla, Philippine Islands	29.94	760.5	30.00	762.0	80.9	27.2	60	e.	5.2	2.3		3 cs	2 ks			0	0	fair	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.95	760.6	30.05	763.1	66.7	19.3	48	se.	19.5	8.7		0	8		se.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	30.08	764.1	30.17	766.4	77.0	25.0	86	calm	0	0		3 cs	5 kn	s.	s.	0	0	d. clouds	Manuel Maeu.
Tuguegarao, Philippine Id's	29.93	760.2	30.06	763.5	74.0	23.3	88	nnw.	9.6	4.3		5 ck	3 ks	ssw.	n.	0.03	0.8	covered	José L. Yrastorza.
SWEDISH.																			
Haparanda	29.63	752.5	29.67	753.5	33.1	0.6	89	s.			2		10			0	0		
Umea	29.58	751.4	29.63	752.7	36.0	2.2	89	sw.			2		10			0	0		
Hernosand	29.56	750.8	29.61	752.1	37.9	3.3	75	s.			2		6			0	0		
Stockholm	29.54	750.4	29.72	754.9	40.6	4.8	82	sse.			2		10			0	0		
Wisby	29.60	751 9	29.66	753.4	43.9	6.6	74	nw.			2		7			0	0		
Sub-series.																			
Upsala	29.60	751.7	29.68	753.9	41.0	5.0	73	s.	13.2	5.9			10			0	0		S. G. Fineman.
SWISS.																			
Geneva	28.61	726.8	30.10	764.5	36.5	2.5	86	nne.			2					0.051	1.3	covered	The Observatory

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
TURKISH.																			
Constantinople	.....	.....	29.87	758.8	54.3	12.4	67	s.	6	2.5	.....	.....	7	.....	sw.	0	0	.....	The Observatory.
Valona	.....	.....	29.88	758.9	61.3	16.3	.....	s.	.....	.....	1	.....	5	.....	.....	0	0	cloudy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	29.82	757.3	64.0	17.8	65	ene.	.....	.....	3	10 cs	0	sw	.....	0	0	.....	Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	29.75	755.6	29.84	757.9	49.5	9.7	68	s.	8	3.6	.....	.....	10 s	.....	s.	0.16	4.1	cloudy	J. O. Barnes.
Alpena, Michigan	28.55	725.2	29.25	742.9	36	2.2	100	se.	6	2.7	.....	.....	fg.	.....	.....	0.93	23.6	dense fog	Jas. J. Fitzgerald.
Atlanta, Georgia	28.70	729.0	29.91	759.7	62.0	16.7	93	s.	14	6.3	.....	.....	10 n	.....	s.	1.45	36.8	light rain	H. Hall.
Atlantic City, New Jersey	29.96	761.0	29.97	761.2	47.3	8.5	86	s.	20	8.9	.....	.....	10 s	.....	s.	0	0	cloudy	Jas. M. Watson.
Augusta, Georgia	29.79	756.7	29.99	761.7	64.4	18.0	93	s.	8	3.6	.....	.....	10 n	.....	s.	0.59	15.0	light rain	John Healy.
Baltimore, Maryland	29.87	758.7	29.92	760.0	50	10.0	100	s.	7	3.1	.....	.....	10 n	.....	.....	0.40	10.2	light rain	Robert Seyboth.
Barnegat, New Jersey	29.97	761.2	29.99	761.7	45.0	7.2	93	s.	18	8.0	.....	.....	10 s	.....	sw.	0	0	threatening	Chas. F. Merritt.
Bismarck, Dakota	28.21	716.5	30.13	765.3	20	— 6.7	87	nw.	9	4.0	.....	10 cs	0	nw.	.....	0.03	0.8	cloudy	Cyrus Cramer.
Boise City, Idaho	27.45	697.2	30.37	771.4	34	1.1	89	calm	0	0	.....	0	0	.....	.....	0	0	clear	B. E. Light.
Boston, Massachusetts	29.83	757.7	29.99	761.7	44.0	6.7	87	sw.	7	3.1	.....	.....	10 s; fg	.....	.....	0.02	0.5	cloudy	O. B. Cole.
Brownsville, Texas	29.75	755.6	29.80	756.9	73	22.8	97	s.	10	4.5	.....	.....	10 s	.....	s.	0	0	cloudy	J. C. Galloway.
Buffalo, New York	28.74	730.0	29.53	750.0	52	11.1	77	sw.	25	11.2	.....	.....	10 ks	.....	sw.	0.26	6.6	cloudy	Wm. Finn.
Burlington, Vermont	29.46	748.3	29.77	756.1	40.5	4.7	78	s.	17	7.6	.....	.....	10 s	.....	w.	inap.	inap.	cloudy	G. C. Schaeffer.
Cairo, Illinois	29.21	741.9	29.63	752.6	61.6	16.4	96	s.	13	5.8	.....	0	0	.....	.....	0.37	9.4	clear	W. H. Ray.
Campo, California	27.53	699.2	30.14	765.5	41.2	5.1	82	w.	2	0.9	.....	0	0	.....	.....	0	0	clear	W. H. Clendenon.
Camp Thomas, Arizona	27.25	692.1	30.03	762.7	41.5	5.3	94	se.	.....	.....	1	2 cs	1 ks	.....	.....	0.08	2.0	clear	J. T. Fitzgerald.
Cape Henry, Virginia	30.03	762.7	30.05	763.3	57	13.9	86	s.	18	8.0	.....	.....	10 n	.....	.....	0.13	3.3	light rain	J. E. Lanouette.
Cape May, New Jersey	29.96	761.0	30.00	762.0	50	10.0	68	s.	23	10.3	.....	.....	10 s	.....	s.	0	0	cloudy	W. Bolten.
Castroville, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	inap.	inap.	.....	T. Jones.
Cedar Keys, Florida	30.04	763.0	30.06	763.5	67	19.4	90	se.	14	6.3	.....	3 cs	0	.....	.....	0.06	1.5	clear	F. W. Mixer.
Champaign, Illinois	28.64	727.4	29.50	749.3	51.8	11.0	86	nw.	16	7.2	.....	.....	10 s	.....	nw.	0.91	23.1	cloudy	L. A. Welsh.
Charleston, S. Carolina	29.96	761.0	30.02	762.5	65	18.3	93	sw.	16	7.2	.....	.....	10 n	.....	sw.	0.26	6.6	light rain	J. H. Smith.
Charlotte, N. Carolina	29.01	736.8	29.89	759.2	60.0	15.6	93	s.	19	8.5	.....	.....	10 n	.....	s.	0.18	4.6	light rain	D. O. Donoghue.
Chattanooga, Tennessee	28.98	736.1	29.83	757.7	60.0	15.6	93	se.	2	0.9	.....	.....	10ks; fg	.....	w.	0.79	20.1	cloudy	B. L. Goulding.
Cheyenne, Wyoming	23.98	609.1	30.16	766.1	21.2	— 6.0	53	nw.	8	3.6	.....	0	0	.....	.....	0	0	clear	E. McGovern.
Chicago, Illinois	28.71	729.2	29.45	748.0	41.0	5.0	96	nw.	17	7.6	.....	.....	10 s	.....	.....	0.49	12.4	cloudy	J. Mitchell.
Chincoteague, Virginia	30.01	762.2	30.03	762.7	50	10.0	100	s.	17	7.6	.....	.....	10 n	.....	sw.	0.10	2.5	heavy rain	F. C. Pratz.
Cincinnati, Ohio	28.90	734.0	29.59	751.6	62	16.7	78	s.	12	5.4	.....	.....	10 ks	.....	w.	0.21	5.3	cloudy	R. B. Watkins.
Cleveland, Ohio	28.76	730.5	29.54	750.3	57	13.9	77	s.	17	7.6	.....	.....	10 s	.....	sw.	0.03	0.8	cloudy	J. B. Newlin.
Coleman City, Texas	27.98	710.7	29.83	757.7	52	11.1	43	w.	18	8.0	.....	0	0	.....	.....	0.02	0.5	clear	L. Dorman.
Columbus, Ohio	28.68	728.5	29.57	751.1	58	14.4	80	sw.	13	5.8	.....	.....	10 ks	.....	sw.	0.11	2.8	cloudy	D. Cuthbertson.
Concho, Texas	27.89	708.4	29.86	758.4	52	11.1	50	w.	28	12.5	.....	0	0	.....	.....	0	0	clear	W. W. McConihe.
Davenport, Iowa	28.89	733.8	29.58	751.3	42	5.6	83	n.	10	4.5	.....	.....	10 ks	.....	n.	0.84	21.3	cloudy	R. R. Martin.
Dayton, Washington T'y	28.41	721.6	30.22	767.6	46.2	7.9	82	sw.	15	6.7	.....	0	c	.....	.....	0	0	clear	H. Clifford.
Deadwood, Dakota	25 30	642.6	30.14	765.5	20	— 6.7	87	calm	0	0	.....	0	0	.....	.....	0.11	2.8	clear	G. W. Scott.
Decatur, Texas	.....	.....	.....	.....	53	11.7	61	se.	9	4.0	.....	.....	10 s	.....	nw.	0	0	cloudy	D. J. Carr.
Delaware Breakwater, Del	29.98	761.5	30.00	762.0	54	12.2	80	s.	33	14.8	.....	.....	10 n	.....	s.	inap.	inap.	light rain	A. Schneider.
Denison, Texas	28.85	732.8	29.68	753.9	62.3	16.8	56	se.	5	2.2	.....	10 ck	0	s.	.....	0.14	3.6	cloudy	J. McGlone.
Denver, Colorado	24.75	628.6	30.19	766.8	28.0	— 2.2	70	s.	7	3.1	.....	0	0	.....	.....	inap.	inap.	clear	F. M. Neal.
Des Moines, Iowa	28.87	733.3	29.83	757.7	36	2.2	69	n.	12	5.4	.....	3 c	4 s	w.	n.	1.37	34.8	fair	F. W. Conrad.
Detroit, Michigan	28.64	727.4	29.40	746.7	57.1	13.9	74	s.	28	12.5	.....	.....	10 s	.....	sw.	0.10	2.5	cloudy	C. F. R. Wappenhans.
Dodge City, Kansas	27.33	694.2	30.06	763.5	39	3.9	82	n.	32	14.3	.....	.....	10 s	.....	.....	0	0	cloudy	E. A. Thomas.
Dubuque, Iowa	28.84	732.5	29.59	751.6	38.2	3.4	82	nw.	8	3.6	.....	.....	10 s	.....	calm	0.17	4.3	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.10	739.1	29.84	757.9	29	— 1.7	67	nw.	12	5.4	.....	0	0	.....	.....	0	0	clear	N. B. Conger.
Eagle Pass, Texas	29.12	739.6	29.94	760.5	54.0	12.2	66	n.	1	0.4	.....	0	0	.....	.....	0	0	clear	F. Belford.
Eagle Rock, Idaho	25.35	643.9	30.22	767.6	32	0.0	81	sw.	12	5.4	.....	.....	10 s	.....	sw.	0	0	cloudy	J. M. Clifford.
Eastport, Maine	30.04	763.0	30.11	764.8	34.5	1.4	79	s.	12	5.4	.....	.....	10 s	.....	s.	inap.	inap.	cloudy	J. H. Melton.
El Paso, Texas	26.14	663.9	29.94	760.5	44	6.7	47	nw.	6	2.7	.....	8 ck	0	w.	.....	0.26	6.6	fair	J. F. Marshall.
Erie, Pennsylvania	28.76	730.5	29.53	750.0	56	13.3	80	s.	22	9.8	.....	.....	10 s	.....	sw.	0.10	2.5	cloudy	R. H. Paxton.
Escanaba, Michigan	28.76	730.5	29.47	748.5	34	1.1	100	n.	17	7.6	.....	.....	10 n	.....	n.	0.46	11.7	light rain	C. Dill.
Florence, Arizona	28.53	724.6	30.10	764.5	42.6	5.9	57	ne.	3	1.3	.....	0	0	.....	.....	0	0	clear	R. R. Herman.
Fort Apache, Arizona	24.97	634.2	29.99	761.7	36	2.2	92	e.	2	0.9	.....	.....	10 s	.....	calm	0.66	16.8	cloudy	W. C. Barnes.
Fort Assinnaboine, Montana	26.88	682.7	29.89	759.2	37	2.8	56	sw.	20	8.9	.....	1 c	0	sw.	.....	0.02	0.5	clear	B. O. Lenoir.
Fort Bennett, Dakota	28.49	723.6	30.19	766.8	25	— 3.9	88	calm	0	0	.....	.....	10 s	.....	.....	0.02	0.5	cloudy	T. Gibson.
Fort Benton, Montana	26.92	683.8	29.90	759.4	42	5.6	59	sw.	16	7.2	.....	3 k	0	calm	.....	0.09	2.3	cloudy	A. H. Bell.
Fort Buford, Dakota	27.99	710.9	30.13	765.3	21	— 6.1	73	ne.	5	2.2	.....	.....	10 s	.....	calm	0	0	clear	V. Verge.
Fort Custer, Montana	26.72	678.7	30.06	763.5	29	— 1.7	67	s.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. Williams.
Fort Davis, Texas	25.04	636.0	29.92	760.0	47	8.3	77	w.	12	5.4	.....	0	0	.....	.....	0	0	clear	W. J. Cundall.
Fort Elliott, Texas	27.09	688.1	29.92	760.0	39	3.9	73	n.	28	12.5	.....	.....	10 n	.....	n.	0.07	1.8	light rain	J. B. Campbell.
Fort Gibson, Indian T'y	29.14	740.1	29.74	755.4	59.0	10.0	86	n.	12	5.4	.....	.....	10 s	.....	n.	0.52	13.2	cloudy	T. J. Macgowan.
Fort Grant, Arizona	25.27	641.8	30.10	764.5	38	3.3	66	e.	2	0.9	.....	0	0	.....	.....	0.03	0.8	clear	G. H. Hayne.
Fort Griffin, Texas	28.44	722.4	29.79	756.7	55	12.8	74	sw.	15	6.7	.....	0	0	.....	.....	0	0	clear	W. B. Stockman.
Fort Keogh, Montana	27.40	695.9	30.05	763.3	28	— 2.2	67	se.	7	3.1	.....	1 cs	0	.....	.....	inap.	inap.	clear	L. Leonardy.
Fort Macon, North Carolina	30.10	764.5	30.11	764.8	60	15.6	93	s.	26	11.6	.....	.....	10 n	.....	s.	inap.	inap.	light rain	J. E. Thatcher.
Fort McKavett, Texas	27.67	702.8	29.99	761.7	50	10.0	37	sw.	11	4.9	.....	0	0	.....	.....	0	0	clear	J. H. Jones.
Fort Missoula, Montana	26.70	678.2	30.08	764.0	37	2.8	92	n.	4	1.8	.....	.....	10 ks	.....	n.	0	0	cloudy	A. P. Leavitt.
Fort St. Michaels, Alaska	30.39	771.9	30.43	772.9	— 7	—21.7	100	sw.	20	8.9	.....	0	0	.....	.....	0	0	clear	A. L. Mathews.
Fort Shaw, Montana	26.14	663.9	29.94	760.5	46	7.8	49	sw.	27	12.1	.....	10 k	0	nw.	.....	0	0	cloudy	T. Cleary.
Fort Sill, Indian Territory	28.48	723.4	29.77	756.1	50	10.0	74	n.	31	13.9	.....	.....	10 s	.....	n.	0	0	cloudy	W. Burrows.
Fort Stevenson, Dakota	28.18	715.8	30.16	766.1	15	— 9.4	83	calm	0	0	.....	.....	8 s	.....	w.	0.07	1.8	cloudy	D. Brooks.
Fort Verde, Arizona	.....	.....	.....	.....	40.1	4.5	50	nw.	.....	.....	1	0	0	.....	.....	0	0	clear	T. M. Ambler.
Fort Washakie, Wyoming	24.43	620.5	.....	.....	20.6	— 6.3	71	n.	6	2.7	.....	0	0	.....	.....	0.05	1.3	clear	H. S. Miles.
Fredericksburg, Texas	28.11	714.0	29.87	758.7	56	13.3	80	w.	12	5.4	.....	0	0	.....	.....	0	0	clear	E. O'C. MacInerney.
Galveston, Texas	29.73	755.1	29.77	756.1	71	21.7	90	sw.	18	8.0	.....	.....	10 ks	.....	w.	0	0	cloudy	W. A. Reid.
Grand Haven, Michigan	28.59	726.2	29.29	744.0	39.0	3.9	89	nw.	12	5.4	.....	.....	10 n	.....	nw.	1.54	39.1	light rain	R. M. Crawford.
Hatteras, North Carolina	30.09	764.3	30.11	764.8	61	16.1	87	s.	24	10.7	.....	.....	10 n	.....	s.	0.02	0.5	light rain	N. C. Smith.
Helena, Montana	25.67	652.0	30.04	763.0	44	6.7	56	w.	4	1.8	.....	10 k	0	.....	.....	0	0	cloudy	J. W. Byram
Henrietta, Texas	28.87	733.3	29.91	759.7	52	11.1	72	n.	12	5.4	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	S. W. Glenn.
Huron, Dakota	28.68	728.5	30.16	766.1	20	— 6.7	56	nw.	15	6.7	.....	0	1 s	.....	.....	inap.	inap.	clear	O. Schutze
Indianapolis, Indiana	28.63	727.2	29.47	748.5	58	14.4	86	s.	9	4.0	.....	0	5 s	.....	s.	0.58	14.7	fair	I. A. Reed.
Indianola, Texas	29.73	755.1	29.76	755.9	71.5	21.9	94	sw.	27	12.1	.....	7 ck	2 s	w.	s.	0	0	cloudy	J. P. Sherry.
Jacksboro, Texas	28.54	724.9	29.75	755.6	57	13.9	69	sw.	16	7.2	.....	0	2 s	.....	.....	inap.	inap.	clear	J. W. Smith.
Jacksonville, Florida	30.04	763.0	30.09	764.3	68	20.0	84	s.	14	6.3	.....	2 cs	4 s	.....	s.	0.12	3.0	fair	F. Z. Gosewisch
Keokuk, Iowa	28.94	735.1	29.63	752.6	42.5	5.8	88	nw	6	2.7	.....	.....	10 s	.....	n.	0.93	23.6	cloudy	L. M. Melbourne.
Key West, Florida	30.13	765.3	30.15	765.8	75.0	23.9	71	se.	13	5.8	.....	0	4 k; hz	.....	se.	0	0	fair	E. A. Beals.
Kittyhawk, North Carolina	30.10	764.5	30.12	765.0	56	13.3	93	s.	11	4.9	.....	.....	10 n	.....	.....	0.03	0.8	light rain	J. A. Cody.
Knoxville, Tennessee	28.78	731.0	29.84	757.9	55	12.8	100	e.	6	2.7	.....	.....	10 s	.....	.....	1.18	30.0	cloudy	S. C. Emery.
La Crosse, Wisconsin	28.85	732.8	29.67	753.6	35	1.7	69	nw.	16	7.2	.....	.....	10 s	.....	nw.	0.86	21.8	cloudy	N. D. Lane.
La Mesilla, New Mexico	26.11	663.2	30.06	763.5	38.0	3.3	72	calm	0	0	.....	2 c	1 s	.....	.....	0.01	0.3	clear	A. W. Browne.
Leavenworth, Kansas	28.94	735.1	29.88	758.9	39	3.9	73	nw.	16	7.2	.....	6 cs	2 k	w.	nw.	0.09	2.3	cloudy	W. Blake.
Lewiston, Idaho	29.31	744.5	30.17	766.3	46.8	8.2	59	se.	5	2.2	.....	0	2 s	.....	.....	0	0	clear	M. F. Burrows.
Little Rock, Arkansas	29.37	746.0	29.70	754.4	64	17.8	100	sw.	12	5.4	.....	.....	10 s	.....	sw.	0.40	10.2	cloudy	E. F. Kubel.
Los Angeles, California	29.77	756.1	30.17	766.3	50.6	10.3	74	calm	0	0	.....	.....	fg.	.....	.....	0	0	light fog	H. C. Smith.
Louisville, Kentucky	28.99	736.3	29.58	751.3	61	16.1	84	s.	12	5.4	.....	.....	9 s	.....	s.	0.34	8.6	threatening	T. H. Breen.
Lynchburg, Virginia	29.20	741.7	29.92	760.0	53.2	11.8	93	calm	0	0	.....	.....	10 n; fog	.....	.....	0.69	17.5	heavy rain	C. A. Shaw.
Madison, Wisconsin	28 48	723.4	29.54	750.3	36	2.2	89	nw.	20	8.9	.....	.....	10 s	.....	nw.	1.44	36.6	cloudy	A. M. Wilson.
Marquette, Michigan	28.78	731.0	29.56	750.8	32	0.0	100	nw.	20	8.9	.....	.....	10 n	.....	calm	0.19	4.8	light snow	I. Gilligan.
Mason, Texas	28.20	716.3	29.89	759.2	55.4	13.0	45	sw.	8	3.6	.....	0	0	.....	.....	0	0	clear	D. T. Flannery.
Memphis, Tennessee	29.36	745.7	29.71	754.6	65	18.3	90	sw.	3	1.3	.....	4 cs	1 s	.....	sw.	0.59	15.0	fair	

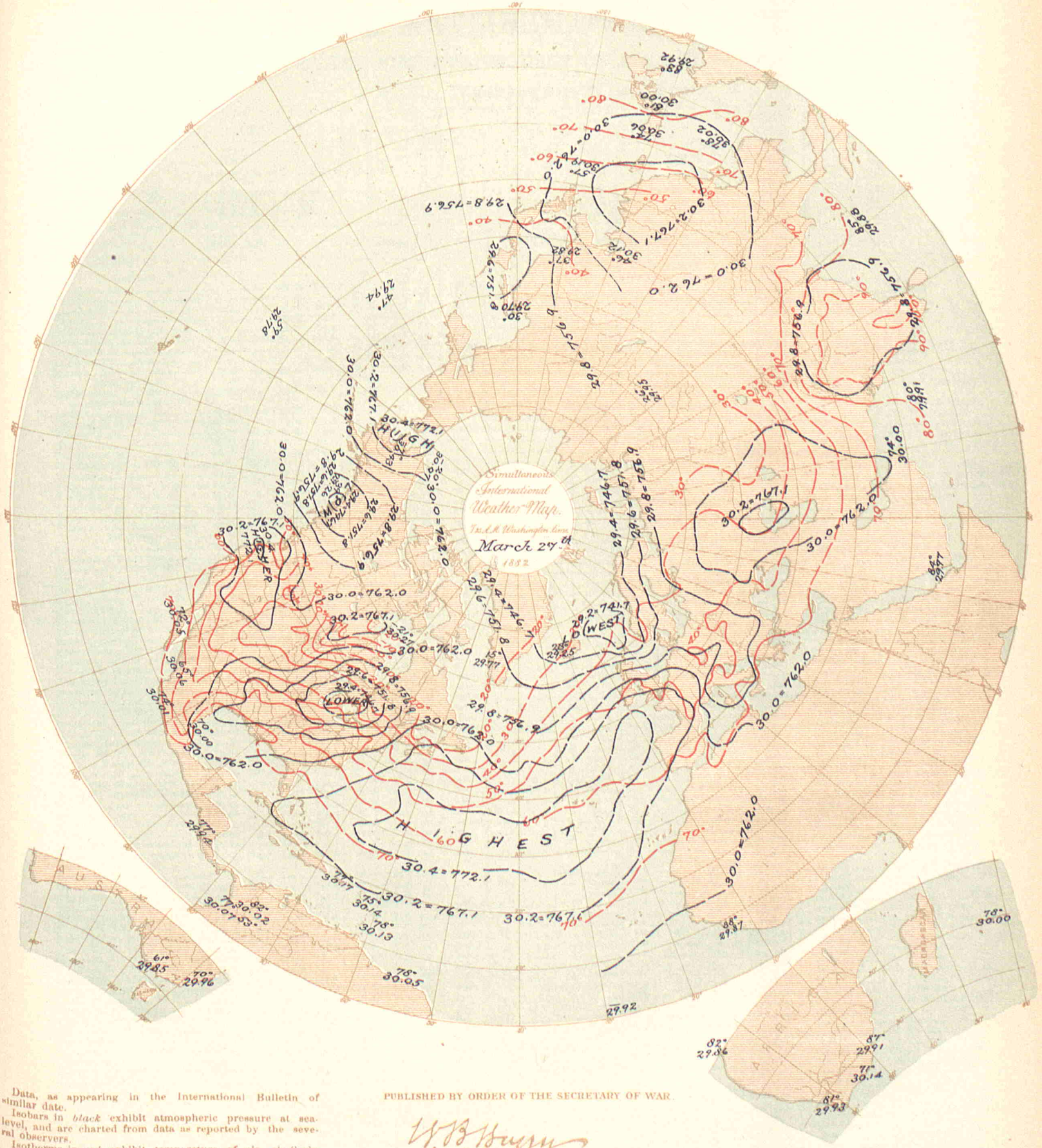
STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–01	0–10	0–10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Milwaukee, Wisconsin	28.67	728.2	29.46	748.3	38	3.3	82	nw.	19	8.5			10 s		n.	1.19	30.2	cloudy	W. Line.
Mobile, Alabama	29.88	758.9	29.92	760.0	71.5	21.9	89	s.	10	4.5			10 s		s.	3.66	93.0	cloudy	J. D. Paxton.
Montgomery, Alabama	29.64	753.8	29.88	758.9	67.6	19.8	95	sw.	10	4.5			10 n		w.	2.30	58.4	thnd'r str'm	J. B. McLaughlin.
Moorhead, Minnesota	29.06	738.1	30.14	765.5	4	—15.6	72	n.	14	6.3		0	0			0	0	clear	H. Bessant.
Morgantown, W. Virginia	28.67	728.2	29.73	755.1	62.0	16.7	60	sw.	6	2.7		0	7 s		sw.	0.06	1.5	fair	J. Sprigg, jr.
Mt. Washington, N. H.	23.61	599.7	30.13	765.3	32.0	0.0	76	w.	60	26.8		6 ck	sk.	w.	w.	0.05	1.3	fair	J. G. Linsley.
Nashville, Tennessee	29.14	740.1	29.70	754.4	62.5	16.9	88	sw.	5	2.2		0	4 ks		sw.	0.55	14.0	fair	L. A. Jesunofsky.
New Haven, Connecticut	29.87	758.7	29.99	761.7	41.5	5.3	94	s.	8	3.7			10s; fg		s.	0	0	cloudy	J. H. Sherman.
New London, Connecticut	30.00	762.0	30.05	763.3	45	7.2	76	s.	9	4.0			10 s		s.	0	0	cloudy	J. G. Lynch.
New Orleans, Louisiana	29.80	756.9	29.86	758.4	71.9	22.2	90	s.	6	2.7			10 s		s.	0.01	0.3	threatening	A. J. Armstrong.
Newport, Rhode Island	30.00	762.0	30.05	763.3	44.2	6.8	92	s.	5	2.2			10 s		sw.	0	0	cloudy	W. McGillivray.
New River, N. Carolina					61	16.1	100	se.			2		10 n			0.01	0.3	light rain	C. C. Corbin.
New Shoreham, Rhode I'd.	30.01	762.2	30.04	763.0	45.8	7.7	83	sw.	22	9.8		10 ck	0	sw.		0	0	cloudy	W. Davis.
New York, New York	29.79	756.7	29.97	761.2	48	8.9	56	s.	6	2.7			10 s		sw.	inap.	inap.	cloudy	E. B. Garriott.
Norfolk, Virginia	30.00	762.0	30.03	762.7	57	13.9	86	s.	16	7.2			10 n		sw.	0.14	3.6	light rain	J. T. Elker.
North Platte, Nebraska	27.12	688.8	30.18	766.6	30.6	— 0.8	68	nw.	18	8.0			10 s			0	0	cloudy	E. F. Brady.
Olympia, Washington T'y	30.24	768.1	30.28	769.1	47.5	8.6	89	s.	12	5.4			10 s		calm	inap.	inap.	cloudy	J. Dascomb.
Omaha, Nebraska	28.73	729.7	29.98	761.5	34.5	1.4	84	n.	16	7.2		0	9 ks		n.	0.66	16.8	clearing	A. Pollak.
Ooglaamie, Pt. Barrow, Alas.	30.05	763.3	30.07	763.8	—20.2	—29.0	63	sse.	4	1.8		0	0			0.02	0.5	clear	P. H. Ray.
Oswego, New York	29.26	743.2	29.60	751.8	45.0	7.2	83	s.	12	5.4			10 n		w.	0.19	4.8	light rain	S. W. Beall.
Palestine, Texas	29.21	741.9	29.78	756.4	61.5	16.4	86	s.	8	3.6		0	5 ks		sw.	0.15	3.8	fair	L. M. Pindell.
Pensacola, Florida	29.92	760.0	29.95	760.7	67.6	19.8	97	s.	6	2.7		0	7 s		sw.	1.44	30.6	fair	M. McGauran.
Philadelphia, Pa	29.86	758.4	29.96	761.0	54	12.2	86	sw.	9	4.0			10 n		sw.	0.03	0.8	light rain	T. F. Townsend.
Pike's Peak, Colorado	17.48	444.0	30.07	763.8	— 5	—20.6	100	ne.	24	10.7		0	0			2.23	56.6	clear	L. M. Dey.
Ploche, Nevada	24.21	614.9	30.35	770.9	33	0.6	57	nw.	5	2.2		0	0			0	0	clear	C. K. Kitchel.
Pittsburg, Pennsylvania	28.82	732.0	29.67	753.6	58.0	14.4	74	s.	12	5.4			10 ks		sw.	0.01	0.3	threatening	J. H. Bryce.
Port Eads, Louisiana	29.91	759.7	29.92	760.0	69.1	20.6	97	s.	17	7.6		0	5 s		s.	inap.	inap.	fair	H. G. Christian.
Port Huron, Michigan	28.62	726.9	29.34	745.2	50.7	10.4	100	s.	18	8.0			10 s			0.28	7.1	cloudy	W. O. Bailey.
Portland, Maine	29.92	760.0	29.97	761.2	41.0	5.0	82	s.	3	1.3			fg.		s.	inap.	inap.	dense fog	D. C. Murphy.
Portland, Oregon	30.27	768.8	30.34	770.6	50.2	10.1	93	se.	7	3.1			10 s		s.	0.08	2.0	cloudy	M. L. Hearne.
Portsmouth, N. Carolina					58	14.4	100	sw.	24	10.7			10 n		sw.	0.02	0.5	light rain	F. P. Chaffee.
Prescott, Arizona	24.80	629.9	30.14	765.5	35	1.7	61	s.	12	5.4		0	0			0	0	clear	J. Mc N. Wright.
Provincetown, Mass	30.01	762.2	30.04	763.0	42	5.6	92	s.	16	7.2			10 s		sw.	inap.	inap.	cloudy	P. T. Jenkins.
Punta Rassa, Florida	30.10	764.5	30.11	764.8	71.5	21.8	83	se.	17	7.6		2 c	0	nw.		inap.	inap.	clear	W. J. Evans.
Red Bluff, California	29.87	758.7	30.25	768.3	59.1	15.1	48	nw.	11	4.9		0	0			0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.69	754.1	29.93	760.2	71	21.7	82	ne.	8	3.6		5 c	0	calm		0	0	fair	W. H. Taylor.
Rochester, New York	28.87	733.3	29.57	751.1	53	11.7	72	s.	18	8.0			10 ks		sw.	0.09	2.3	threatening	A. T. Sherwood.
Roseburg, Oregon	29.89	759.2	30.45	773.4	44.2	6.8	93	calm	0	0			10 s			0.05	1.3	cloudy	J. J. Nanry.
Sacramento, California	30.05	763.3	30.13	765.3	60.5	15.8	54	n.	16	7.2		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	28.95	735.3	29.58	751.3	53.0	11.7	86	nw.	12	5.4			10 s		sw.	0.44	11.2	cloudy	J. H. Webber.
St. Paul, Minnesota	28.90	734.0	29.82	757.4	32.0	0.0	81	nw.	15	6.7		0	0			0	0	clear	O. S. M. Cone.
St. Vincent, Minnesota	29.21	741.9	30.15	765.8	— 9	—22.8	100	nw.	8	3.6		0	0			inap.	inap.	clear	G. Kingsbury.
Salt Lake City, Utah	25.79	655.1	30.31	769.9	36	2.2	64	calm	0	0			10 ks		nw.	inap.	inap.	cloudy	J. Craig.
San Antonio, Texas	29.14	740.1	29.85	758.2	60.4	15.8	35	nw.	3	1.3		0	0			0	0	clear	E. Lane.
San Diego, California	30.07	763.8	30.14	765.5	54.4	12.4	88	n.	3	1.3		1 k	3 s			0	0	fair	A. C. Dobbins.
Sandusky, Ohio	28.75	730.2	29.47	748.5	56.2	13.4	86	sw.	23	10.3			10 n		sw.	0.19	4.8	light rain	M. H. Perry.
Sandy Hook, New Jersey	29.92	760.0	29.96	761.0	53.0	11.7	80	s.	24	10.7		8 c; k	0	s.		0	0	cloudy	B. A. Blundon.
San Francisco, California	30.05	763.3	30.12	765.0	64	17.8	48	nw.	12	5.4		0	1 s		n.	0	0	clear	N. Gorom.
Santa Fé, New Mexico	23.11	587.0	30.09	764.3	29	— 1.7	88	n.	8	3.6			10 s		sw.	0.10	2.5	cloudy	H. N. Jones.
Savannah, Georgia	29.94	760.5	30.03	762.7	65	18.3	90	s.	13	5.8			10 n		s.	0.33	8.4	light rain	H. M. Ford.
Shreveport, Louisiana	29.53	750.0	29.78	756.4	65	18.3	93	sw.	11	4.9			10 n			0.55	14.0	thnd'r storm	E. N. Meekins.
Silver City, New Mexico	24.24	615.7	30.02	762.5	32	0.0	57	nw.	1	0.4		0	0			0.20	5.1	clear	J. B. Wallace.
Sitka, Alaska	29.19	741.4	29.26	743.2	38.6	3.7	89	sw.	12	5.4			10 n		sw.	0.31	7.9	light rain	J. J. McLean.
Smithville, North Carolina	30.04	763.0	30.08	764.0	60	15.6	100	sw.	20	8.9			10 n			0.20	5.1	heavy rain	J. C. Rickli.
Spokane Falls, Wash. Ter.	28.02	711.7	30.15	765.8	43	6.1	83	sw.	10	4.5			10 s			0	0	cloudy	D. Moore.
Springfield, Illinois	28.88	733.5	29.60	751.8	45	7.2	87	nw.	17	7.6			10 n		nw.	0.93	23.6	thnd'r str'm	T. B. Jennings.
Springfield, Massachusetts	29.82	757.4	29.96	761.0	40.4	4.7	92	s.	1	0.4			fg.			0.02	0.5	dense fog	T. S. Outram.
Springfield, Mo	28.24	717.3	29.80	756.9	51.5	10.8	80	nw.	10	4.5			10 s		nw.	0.88	22.4	cloudy	J. B. Marbury.
Stockton, Texas	26.91	683.5	29.99	761.7	50.2	10.1	55	w.	20	8.9		0	0			0	0	clear	J. O'Dowd.
Thatcher's Island, Mass	29.94	760.5	30.00	762.0	42.5	5.8	83	s.	10	4.5			10 s			0.03	0.8	cloudy	G. Liebmann.
Toledo, Ohio	28.68	728.5	29.41	747.0	58	14.4	81	s.	20	8.9			10 s		sw.	0.36	9.1	threatening	A. Buell.
Tucson, Arizona	27.59	700.8	30.05	763.3	43	6.1	76	s.	2	0.9		0	1 k			0.01	0.3	clear	J. L. Whiteside.
Umatilla, Oregon	29.86	758.4	30.24	768.1	53.0	11.7	66	sw.	28	12.5		0	8 s		w.	0	0	cloudy	R. P. Sibley.
Uvalde, Texas	28.89	733.8	29.87	758.7	61	16.1	35	w.	12	5.4		0	0			0	0	clear	E. C. Imlay.
Vicksburg, Mississippi	29.51	749.5	29.77	756.1	68	20.0	90	s.	10	4.5			10 s		s.	0.93	23.6	cloudy	T. J. Kenan.
Visalia, California	29.70	754.4	30.08	764.0	54	12.2	82	e.	3	1.3		0	4 s			0	0	fair	J. T. Cochran.
Washington, D. C.	29.78	756.4	29.90	759.4	53	11.7	100	s.	11	4.9			10 n		s.	0.37	9.4	light rain	B. M. Pursell.
West Las Animas, Colorado	26.06	661.9	30.14	765.5	31.5	— 0.3	66	n.	12	5.4		0	0			0.07	1.8	clear	J. Grover.
Wickenburg, Arizona					50.5	10.3	58	calm			0	0	0			0	0	clear	H. A. Kremp.
Williamsport, Pa	29.16	740.7	29.79	756.7	53	11.7	69	s.	6	2.7			10 n		s.	inap.	inap.	light rain	B. F. Hough.
Wilmington, N. Carolina	30.00	762.0	30.06	763.5	63	17.2	100	sw.	9	4.0			10 n		s.	0.23	5.8	light rain	S. A. Haney.
Winnemucca, Nevada	25.85	656.6	30.35	770.9	36	2.2	72	sw.	6	2.7		0	0			0	0	clear	J. R. Williams.
Yankton, Dakota	28.69	728.7	30.08	764.0	27	— 2.8	77	e.	14	6.3		0	0			0	0	clear	J. H. Atfield.
Yuma, Arizona	29.89	759.2	30.04	763.0	53.0	11.7	61	sw.	1	0.4		0	0			0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.07	560.6			53.0	11.7	76	calm	0	0			9 ks; s			0.02	0.5	cloudy	Joaquin Gomez.
Bridgetown, Barbados, W.I.	30.12	765.0	30.13	765.3	78	25.6	90	e.				5 k	5 ks	e.	e.	0	0	cloudy	J. A. Racker.
Buenaventura, U. S. C.	30.05	763.3	30.07	763.8	77	25.0	90	s.	4	1.8			10 n		s.	0.02	0.5	raining	J. I. Plume.
Guadeloupe, W. I.	30.02	762.5	30.04	763.0	75	23.9	87	ne.				4 k	2 ks			0	0	cloudy	B. Bigar.
Havana, Cuba, W. I.	30.13	765.3	30.18	766.6	73	22.8	84	se.	1.2	0.5		0	1 ks		calm	0	0	clear	A. Van Caneghem.
Kingston, Jamaica, W. I.	30.14	765.5	30.15	765.8	72.3	22.4	82	n.	1	0.4		0	0			0	0		Robert Johnston.
Navassa	30.08	764.0	30.16	766.1	73	22.8	77	e.	10	4.5			10 s		e.	0.10	2.5		F. M. Everett.
Paramaribo, S. A.	30.05	763.3	30.05	763.3	78	25.6	86	e.			3	4 c	5 k	e.		0.660	16.8	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.56	750.8	30.02	762.5	82	27.8	78	n.			1	3 ck	2 k	calm	calm	0	0	hazy	Miss Flora A. Nichols.
Rivas							94	ne.			2	0	2 k		ne.	0	0	clear	Robert Mason.
Santiago de Cuba, W. I.	30.13	765.3	30.16	766.1	73	22.8	75	n.	1.2	0.5		1 ck	0			0.34	8.6	fair	
York Factory, B. A.	30.21	767.3	30.27	768.8	—21.0	—29.4		n.	8	3.6			10 n		n.	0.02	0.5	snowing	W. Wood.

STATIONS AND VESSELS.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.			Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Amount and kind.		Direction.						
								Force.	Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
BRITISH NAVAL.																		
H. M. S. Agincourt, N. 39° 11′, E. 9° 06′	29.83	757.7	56	13.3	84	wnw.			3-5		7	wnw.						squally.
H. M. S. Alert, S. 5° 39′ E. 53° 36′	29.89	759.2	87.5	30.8	73	e.			2-3		5							d. clouds.
H. M. S. Alexandra, Naples, Italy	29.78	756.4	59.8	15.4	76	sw.			2-3		9	w.						d. clouds.
H. M. S. Bacchante, N. 31° 53′, E. 32° 25′	29.80	756.9	63	17.2	78	w.			5-6		1	wsw.				4	w.	blue sky.
H. M. S. Boadicea, S. 34° 11′, E. 18° 26′	29.90	759.4	83	28.3	67	calm			0		1	w.						blue sky.
H. M. S. Comus, N. 5° 19′, E. 120° 45′	29.92	760.0	83	28.3	91	nne.			1-2		5					3	ne.	d. clouds.
H. M. S. Diamond, S 34° 04′, E. 114° 25′	30.28	769.1	63	17.2	91	se.			1-2		1					1	sse.	blue sky.
H. M. S. Dido, N. 17° 00′, W. 61° 45′	30.18	766.6	77	25.0		ene.			1-3		5	ne.						squally.
H. M. S. Eclipse, S. 15° 43′, E. 46° 20′	29.95	760.7	82	27.8		ese.			1		3							d. clouds.
H. M. S. Espiegle, S. 34° 25′, E. 109° 22′	30.33	770.4	62	16.7	71	se.			3		7					1	ese.	d. clouds.
H. M. S. Fawn, N. 15° 04′, E. 42° 14	29.77	756.1	84	28.9	59	sse.			5		0						sse.	blue sky.
H. M. S. Flying Fish, N. 34° 41′, E. 135° 12′	29.96	761.0	46	7.8	96	calm			0		6							d. clouds.
H. M. S. Gannet, S. 33° 01′, W. 71° 37′	30.04	763.0	58	14.4	93	calm			0		10							drizzling.
H. M. S. Garnet, Montevideo, Uruguay	30.09	764.3	58	14.4	69	nw.			2		0							blue sky.
H. M. S. Griffon, N. 19° 18′ W. 74° 18′	30.13	765.3	77	25.0	82	ne.			2		2	ne.				5	ene.	d. clouds.
H. M. S. Inconstant, S. 24° 00′ E. 67° 00′	30.03	762.7	77	25.0	95	wnw.			1		8	nne.				0	ssw.	showery.
H. M. S. Iron Duke, N. 22° 16′, E. 114° 10′	30.26	768.6	55	12.8	86	ne.			3-4		10	ne.						raining.
H. M. S. Lark, S. 21° 46′, E. 162° 48′	29.96	761.0	76.3	24.6		e.			5		4					4	e.	d. clouds.
H. M. S. Liffey, Coquimbo, Chili	30.02	762.5	62	16.7		calm			0		10							overcast.
H. M. S. Magpie, N. 28° 14′, E. 129° 16′	30.19	766.8	56.8	13.8	62	wnw.			1		7	wsw.						d. clouds.
H. M. S. Malabar, N. 17° 19′, E. 66° 00′	29.91	759.7	80	26.7	91	nnw.			3		1	n.				2	n.	blue sky.
H. M. S. Orontes, Lake Timsah, Suez Canal, Egypt	29.85	758.2	64.5	18.1	79	wnw.			5		6	wnw.						squally.
H. M. S. Rambler, St. Paul de Loando, Benguiea	29.85	758.2	81	27.2		wsw.			1		3							d. clouds.
H. M. S. Ready, Muscat, Arabia	30.00	762.0	74.1	23.4		nw.			3		1							squally.
H. M. S. Rocket, Vancouver Island, British Columbia	30.19	766.8	47	8.3	92	w.			3		5							squally.
H. M. S. Sea Gull, S. 4° 42′, E. 53° 43′	29.27	743.4	87	30.6	79	e.			1-2		2	ese.				3	ese.	d. clouds.
H. M. S. Serapis, N. 34° 54′ E. 18° 33′	29.94	760.5	64	17.8	83	sw.			2		4	wsw.				2	wsw.	d. clouds.
H. M. S. Tamar, N. 37° 17′, E. 4° 17′	30.00	762.0	49.5	9.7	78	nne.			6-7		10					7	nne.	drizzling.
H. M. S. Thalia, S. 33° 00′, W. 18° 58′	30.17	766.3	73	22.8		nne.			0		10					0	nne.	d. clouds.
H. M. S. Triumph, Valparaiso, Chili	30.04	763.0	58	14.4	64	calm			0		9	calm						d. clouds.
H. M. S. Tyne, N. 13° 55′, E. 111° 55′	30.02	762.5	78	25.6	95	sse.			1		4	calm				1	ne	d. clouds.
H. M. S. Woodlark, Bombay, India	29.78	756.4	89.5	31.9	38	nw.			5-6		0							misty.
PORTUGUESE NAVAL.																		
Quanza, St. Vincent, Cape Verd Islands	30.08	764.1	71.6	22.0	74	ne.			2		6		sw.			2	ne.	d. clouds.
Rio Lima, Porto Praya, Cape Verd Islands	30.11	764.8	73.9	23.3	76	ne.			2		6		n.	12 mi	nutes	1		d. clouds.
Tamega, Macao, China	30.28	769.1	55.1	13.4	79	n.			2		10		ne.	14 h'r	14 h'r	2		overcast.
UNITED STATES NAVAL.																		
Navy Yard, Pensacola, Fla	29.91	759.7	69	20.6	95	sw.	20	8.9			10		ssw.	1.53	38.9			cloudy.
Naval Hospital, Portsmouth, N. H.	30.01	762.2	38	3.3	72	calm	0	0			10			0	0			foggy.
Naval Hospital, Yokohama, Japan	29.66	753.4	45	7.2	54	n.			1		1		w.	0	0			clear.
Adams, S. 9° 35′, W. 79° 06′	29.82	757.4	70	21.1	90	se.			2		0					sm'h		clear.
Alaska, Mollendo, Peru	29.97	761.2	68	20.0	79	calm			0		2			0	0	sm'h		clear.
Alert, Hong Kong, China*	30.12	765.0	58	14.4	76	ene.			2		10		calm			sm'h		overcast.
Alliance, N. 13° 22′, W. 77° 52′	30.00	762.0	78	25.6	82	ene.			4		8			light	light	sm'h		cloudy.
Ashuelot, Nagasaki, Japan	30.17	766.3	49	9.4	71	wnw.			2		8		wnw.					cloudy.
Brooklyn, Montevideo, Uruguay	30.11	764.8	64	17.8	83	w.	7	3.1			2		w.	0	0	mod.	w.	fair.
Colorado, New York, N. Y.	29.94	760.5	48	8.9	92	s.	12	5.4			10		sw.	0.22	5.6			overcast.
Enterprise, Samana Bay, Cuba*	30.20	767.1	76	24.4	77	calm			0		2							clear.
Essex, Monrovia, Liberia, Africa	29.96	761.0	81	27.2	78	ne.			1		5					sm'h	v	fair.
Franklin, Norfolk, Va.	30.09	764.3	57	13.9	?	s.	14	6.3			10		s.	0.16	4.1			raining.
Galena, Palermo, Sicily	29.96	761.0	59	15.0	82	n.			1		10					sm'h		cloudy.
Independence, Mare Island, Cal.	29.95	760.7	64	17.8	48	nnw.			5		8		nnw.	0	0			fair.
Kearsage, Kingston, Jamaica, W. I.	30.14	765.5	75	23.9	77	wnw			1		2							fair.
Lackawanna, S. 16° 31′, W. 76° 10′†	30.12	765.0	73	22.8	85	e.			3		10		s.			sm'h	n.	cloudy.
Lancaster, N. 36° 12′ E. 21° 36′*	29.94	760.5	59	15.0	65	wnw.			2		2		nw.			sm'h		fair.
Marion, S. 33° 54′, E. 18° 24′ *†	29.98	761.5	73	22.8	85	w.			2		8		w.	h'vy	h'vy	sm'h		cloudy.
Michigan, Erie, Pa	29.43	747.5	56	13.3	100	s.			5		10		s.					cloudy.
Minnesota, Newport, R. I.	30.03	762.7	46	7.8	84	ssw.	8	3.6			10		ssw.					overcast.
Monocacy, Kobe Japan	30.04	763.0	45	7.2	68	calm			0		2		calm					fair.
New Hampshire, Newport, R. I.	30.02	762.5	45	7.2	84	s.			3		10							overcast.
Nipsic, N. 38° 36′, E. 0° 13′	30.11	764.8	59	15.0	44	nne.			5		2					long	nne.	clear.
Onward, Callao, Peru†	30.09	764.3	65	18.3	94	sse.			3		10		n.			long	w.	cloudy.
Palos, Kobe, Japan	30.05	763.3	41	5.0	91	ene.			1		5							fair.
Passaic, Washington, D. C.	30.00	762.0	53	11.7	93	sw.			2		10		sw.					raining.
Pensacola, Callao, Peru	30.00	762.0	66	18.9	94	s.	3	1.3			10			0	0			cloudy.
Portsmouth, Norfolk, Va.	30.06	763.5	55	12.8	100	s.			4		10							cloudy.
Powhatan, Port of Spain, Trinidad, W. I.	30.08	764.0	79	26.1	78	nne.			2		5		n					fair.
Quinnebaug, N. 38° 28′, E. 15° 30′	29.82	757.4	64	17.8	68	nw.			2		8		calm			sm'h		cloudy.
Ranger, Black Head, Mexico*	29.93	760.2	75	23.9	86	calm			0		2			0	0	sm'h		hazy.
Richmond, Kobe, Japan*	29.94	760.5	48	8.9	78	ne.			2		2			0	0			fair.
Shenandoah, N. 12° 24′, W. 67° 13′*	30.16	766.1	76	24.4	82	ne.			4		8		ne.			mod.	ne.	cloudy.
St. Louis, League Island, Pa	30.20	767.1	59	15.0	88	s.	20	8.9			10			0	0			cloudy.
Swatara, Kobe, Japan*	29.83	757.7	48	8.9	70	calm			0		5		calm			sm'h		fair.
Tennessee, New Orleans, La.	29.84	757.9	73	22.8	95	ssw.	7	3.1			10		s.	0.07	1.8			cloudy.
Vandalia, N. 38° 05′, W. 80° 22′†	30.24	768.1	73	22.8	90	sw.			5		8		sw.			mod.	sw.	fair.
Wabash, Boston, Mass.	30.00	762.0	45	7.2	76	ssw.	4	1.8			10		sw.	0.01	0.3			hazy
Wachusetts, Sitka, Alaska	29.30	744.7	39	3.9	100	ssw.			1		10		calm			sm'h		rainy.
Wyoming, Port Royal, S. C.	30.02	762.5	64	17.8	100	s.	21	9.4			10		sw.	0.25	6.3			raining.
Yantic, N. 22° 18′, W. 97° 44′*	29.79	756.7	74	23.3	95	calm			0		8					long	ese.	fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.			Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	Force.	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Nova Scotian, N. 48° 30′ W. 31° 07′	29.80	756.9	54	12.2	.....	sw.	.....	.....	5	.....	10	.....	sw.	.....	.....	con.	ssw.	misty.
S. S. Peruvian, Portland, Maine*	29.76	755.9	32	0.0	.....	sw.	.....	.....	5	.....	9	.....	sw.	2 h'r	2 h'r	.....	.....	cloudy.
S. S. Prussian, Glasgow, Scotland*	29.75	755.6	46	7.8	.....	wnw.	.....	.....	4	.....	8	.....	w.	0	0	.....	.....	fair.
S. S. Scandinavian, N. 43° 19′, W. 67° 06′*	30.00	762.0	35	1.7	.....	ssw.	.....	.....	4	.....	10	.....	ssw.	2½ h'r	2½ h'r	sm'h	wsw.	overcast.
S. S. Waldensian, N. 52° 00′ W. 180 18′*	30.35	770.9	51	10.6	.....	wsw.	.....	.....	6	.....	1	.....	ssw.	0	0	con.	wnw.	squally.
AMERICAN STEAMSHIP COMPANY.																		
S. S. Illinois, N. 46° 49′, W. 32° 54′	29.84	757.9	52	11.1	93	ssw.	.....	.....	7	.....	10	.....	s.	.....	.....	mod.	sw.	rainy.
S. S. Indiana, St. George's Channel†	30.25	768.3	52	11.1	66	nw.	.....	.....	3	.....	8	.....	nw.	light	light	sm'h	.....	cloudy.
S. S. Ohio, Philadelphia, Penn.	.....	.....	53	11.7	93	ssw.	.....	.....	2	.....	8	.....	sw.	.....	.....	.....	.....	cloudy.
S. S. Pennsylvania, N. 38° 53′, W. 69° 50′†	30.17	766.3	47	8.3	92	sse.	.....	.....	3	.....	1	.....	s.	.....	.....	sm'h	.....	blue sky.
ANCHOR LINE.																		
S. S. Assyria, N. 40° 51′, W. 29° 40′*†	30.51	774.9	59	15.0	.....	wsw.	.....	.....	5	.....	10	.....	sw.	0	0	mod.	wsw.	overcast.
S. S. Devonia, N. 45° 50′ W. 43° 37′†	29.83	757.7	39	3.9	.....	w.	.....	.....	8	.....	8	.....	w.	.....	.....	h'vy	wsw.	snowy.
S. S. Galatia, N. 41° 11′ W. 52° 56′†	30.38	771.6	.....	.....	.....	wnw.	.....	.....	5	.....	3	.....	n.	0	0	long	n.	fine.
S. S. Utopia, N. 34° 22′, W. 64° 18′*†	30.20	767.1	58	14.4	76	se.	.....	.....	2	.....	9	.....	s.	0	0	slight	nw.	cloudy.
ATLAS LINE.																		
S. S. Atlas, Colon, U. S. Colombia †	30.20	767.1	79	26.1	90	nne.	.....	.....	1	.....	10	.....	.....	1 h'r	1 h'r	.....	.....	fine.
S. S. Arden, Mayaguez, Porto Rico, W. I.	.....	.....	.....	.....	.....	s.	.....	.....	1	.....	2	.....	.....	.....	.....	sm'h	se.	fine.
S. S. Athos, Aux Cayes, Hayti, W. I.	29.83	757.7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	light	light	h'vy	.....	
BOSTON AND HALIFAX.																		
S. S. Carroll, Halifax, N. S.†	29.91	759.7	52	11.1	100	ssw.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	raining.
BRITISH METEOROLOGICAL OFFICE.																		
S. S. Auckland, N. 40° 45′, W. 29° 41′	30.39	771.9	57	13.9	.....	wsw.	.....	.....	3	.....	10	.....	.....	.....	.....	.....	.....	overcast.
Baroda, S. 18° 17′, E. 82° 08′	29.90	759.4	79.3	26.3	78	e.	.....	.....	5	.....	7	.....	.....	.....	.....	.....	.....	showery.
British Merchant, N 10° 05′ E 90° 01′	29.88	758.9	85	29.4	79	se.	.....	.....	1–2	.....	4	.....	.....	.....	.....	.....	.....	misty.
Bk Caldew, N. 34° 47′, W. 34° 57′	30.39	771.9	63.5	17.5	.....	ssw.	.....	.....	3	.....	9	.....	.....	.....	.....	.....	.....	overcast.
S. S. Cipero, N 49° 25′ W. 9° 03′	30.40	772.1	50.6	10.3	68	wnw.	.....	.....	3	.....	10	.....	.....	.....	.....	3	wsw.	overcast.
Bk. Commewyne, N. 36° 54′, W. 47° 30′	30.33	770.4	55.8	13.2	69	nnw.	.....	.....	5	.....	5	.....	.....	.....	.....	.....	.....	d. clouds.
Bg, Hermine, S. 0° 46′, W. 27° 50′	29.97	761.2	80	26.7	87	nnw.	.....	.....	2	.....	7	.....	.....	.....	.....	.....	.....	d. clouds.
S. Lochee, N. 56° 00′, W. 13° 00′	29.93	760.2	46.5	8.1	96	wsw.	.....	.....	7	.....	5	.....	.....	.....	.....	.....	.....	d. clouds.
BRISTOL CITY LINE.																		
S. S. Brooklyn City, N. 48° 47′, W. 17° 57′*†	30.33	770.4	60	15.6	.....	sw.	.....	.....	6	.....	8	.....	wsw.	0	0	h'vy	sw.	cloudy.
CROMWELL LINE.																		
S. S. Hudson, N. 37° 17′, W. 74° 30′*†	30.13	765.3	52	11.1	.....	s.	.....	.....	3	.....	10	.....	s.	0	0	mod.	s.	overcast.
S. S. New Orleans, N. 34° 31′, W. 77° 10′*†	30.15	765.8	52	11.1	.....	s.	.....	.....	6	.....	10	.....	s.	.....	.....	h'vy	ssw.	stormy.
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. Canada, N. 40° 39′, W. 59° 00′	30.35	770.9	42.8	6.0	.....	wnw.	.....	.....	4	.....	8	.....	nw.	1 h'r	1 h'r	.....	nw.	covered.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Bohemia, N. 40° 34′, W. 63° 18′.*†	30.25	768.3	.....	.....	.....	ssw.	.....	.....	6	.....	5	.....	ssw.	0	0	mod.	sw.	fine.
S. S. Gellert, Off Lizard, England	30.40	772.1	58	14.4	.....	n.	.....	.....	2	.....	2	.....	n.	0	0	mod.	.....	fair.
S. S. Lessing, N. 49° 37′, W. 10° 38′*	30.46	773.7	54	12.2	.....	wnw.	.....	.....	5	.....	8	.....	nw.	0	0	long	nw.	cloudy.
S. S. Silesia, Hamburg, Germany*†	29.77	756.1	52.0	11.1	.....	nw.	.....	.....	5	.....	5	.....	e.	14 h'r	14 h'r	.....	.....	raining.
JOHNSTON LINE.																		
S. S. Thanemore, N. 40° 23′, W. 65° 34′	30.26	768.6	.....	.....	.....	sw.	.....	.....	3	.....	8	.....	wsw.	0	0	.....	.....	fine.
LEYLAND LINE.																		
S. S. Iberian, N. 46° 02′ W 42° 28′	.....	.....	.....	.....	.....	wsw.	.....	.....	7	.....	8	.....	wnw.	1 h'r	1 h'r	high	w.	
MALLORY LINE.																		
S. S. Colorado, N. 33° 14′, W. 77° 12′†	30.08	764.0	64	17.8	.....	sse.	.....	.....	6	.....	10	.....	sse.	2 h'r	2 h'r	high	se.	
MERCHANTS' EXPRESS LINE.																		
S. S. Freja, N. 49° 26′, W. 15° 11′†	30.40	772.1	55	12.8	87	s.	.....	.....	5	.....	8	.....	s.	0	0	mod.	sw.	
S. S. Hermod, Havre, France*†	29.35	745.5	55.4	13.0	.....	nnw.	.....	.....	4	.....	3	.....	n.	0	0	.....	.....	fair.
NATIONAL LINE.																		
S S. England, N. 40° 59′, W. 61° 25′*†	30.32	770.1	.....	.....	.....	s.	.....	.....	2	.....	10	.....	w.	0	0	light	sw.	overcast.
S. S. Erin, N. 40° 37′, W. 62° 48′	30.31	769.9	50	10.0	.....	ssw.	.....	.....	5	.....	8	.....	wsw.	1 h'r	1 h'r	.....	sw.	dull.
S. S. Italy, N. 49° 36′ W. 25° 30′	30.10	764.5	.....	.....	.....	s.	.....	.....	5	.....	8	.....	sse.	5 h'r	5 h'r	mod.	sw.	misty.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S S. Niagara, N. 37° 50′, W. 74° 11′*†	30.16	766.1	62	16.7	.....	ssw.	.....	.....	5	.....	8	.....	sw.	3 h'r	3 h'r	small	e.	drizzling.
NEW YORK HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, N. 26° 17′, W. 80° 39′*†	30.27	768.8	75	23.9	.....	ene.	.....	.....	4	.....	6?	.....	se.	0	0	mod.	ese.	clear.?
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Alvena, Kingston, Jamaica, W. I.*†	29.94	760.5	72	22.2	.....	calm	.....	.....	0	.....	.....	.....	.....	.....	.....	.....	.....	clear.
S. S. Atlas, N. 14° 26′, W. 78° 04′*†	30.18	766.6	78	25.6	.....	ne.	.....	.....	4	.....	.....	.....	.....	.....	.....	sm'h	.....	clear.
S. S. Bothnia, N. 42° 20′ W. 56° 50′	30.31	769.9	40	4.4	.....	nnw.	.....	.....	4	.....	.....	.....	.....	.....	.....	.....	nw.	fair.
S. S. City of Washington, N. 19° 13′, W. 95° 43′*†	30.10	764.5	80	26.7	.....	s.	.....	.....	1	.....	.....	.....	.....	.....	.....	sm'h	.....	showery.
S. S. Lepanto, N. 50° 28′, —. 0° 0′*	30.18	766.6	48	8.9	.....	w.	.....	.....	5	.....	.....	.....	.....	.....	.....	.....	w.	
S. S. Maas, Off Fire Island, N. Y.*	29.96	761.0	47	8.3	.....	ssw.	.....	.....	1	.....	.....	.....	.....	.....	.....	sm'h	.....	hazy.
NORTH GERMAN LLOYD.																		
S. S. Hermann, N. 49° 02′, W. 15° 48′*†	30.45	773.2	50.0	10.0	.....	ssw.	.....	.....	5	.....	6	.....	sw.	0	0	h'vy	nnw.	cloudy.
S. S. Hohenzollern, S. 34° 00′, W. 52° 30′*	30.09	764.3	71.4	21.9	.....	s.	.....	.....	1–2	.....	1	.....	s.	0	0	2	s.	clear.
S. S. Koln, N. 47° 09′, W. 32° 29′*	29.84	757.9	57.0	13.9	87	sw.	.....	.....	7	.....	10	.....	.....	6 h'r	6 h'r	r'gh	sw.	raining.
S. S. Kronprinz F. Wilhelm, N. 38° 22′, W. 68° 09′	30.33	770.4	58.1	14.5	.....	s.	.....	.....	5–6	.....	4	.....	sw.	0	0	4–5	sw.	fair.
S. S. Leipzig, N. 42° 20′. W. 51° 13′	30.29	769.4	34.5	1.4	74	wnw.	.....	.....	6	.....	8?	.....	wnw.	3 h'r	3 h'r	long	w.	clear.?
S. S. Main, N. 51° 38′, E. 2° 10′*	30.11	764.8	51.8	11.0	.....	wnw.	.....	.....	3	.....	8	.....	wnw.	0	0	mod.	wnw.	cloudy.
S. S. Mosel, N. 41° 11′, W. 62° 43′	30.37	771.4	46.6	8.1	.....	ssw.	.....	.....	4	.....	9	.....	w.	0	0	light	ssw.	cloudy.
S. S. Neckar, N. 45° 45′ W. 38° 19′	29.95	760.7	48.2	9.0	.....	wsw.	.....	.....	7	.....	3	.....	wsw.	0	0	.....	wsw.	clear.
S. S. Nurnburg N. 24° 36′, W. 18° 51′*	30.13	765.3	71.6	22.0	80	ne.	.....	.....	3	.....	0	.....	.....	0	0	3	ne.	clear.
S. S. Oder, N. 49° 34′, W. 12° 18′	30.43	772.7	57.9	14.4	.....	w.	.....	.....	3	.....	4?	.....	w.	0	0	long	nw.	cloudy ?
S. S. Ohio, N. 43° 55′, W. 14° 15′	30.54	774.7	.....	.....	.....	e.	.....	.....	2	.....	6	.....	e.	0	0	mod.	ne.	fair.
S. S. Salier, N. 45° 16′, W. 43° 24′	29.94	760.5	36.5	2.5	.....	wsw.	.....	.....	9	.....	10	.....	wsw.	8 h'r	8 h'r	h'vy	wsw.	lightsnow.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Belgic, N. 42° 14′, E. 170° 23′†	29.94	760.5	47	8.3	69	n.	.....	.....	4	.....	5	.....	ne.	0	0	mod.	ne.	fair.
S. S. Gaelic, Hong Kong, China†	30.31	769.9	58	14.4	82	se.	.....	.....	1	.....	10	.....	se.	.....	.....	.....	.....	overcast.
S. S. Oceanic, N. 35° 22′, W. 169° 00′ *	29.78	756.4	59	15.0	76	ssw.	.....	.....	5	.....	6	.....	w.	.....	.....	4	ssw.	fine.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, New York, N. Y†	30.09	764 3	.....	.....	.....	sw.	.....	.....	1	.....	10	.....	sw.	0	0	.....	.....	smoky.
S. S. Seminole, N. 33° 22′, W. 78° 00′†	30.12	765.0	66	18.9	79	s; sw.	.....	.....	.....	.....	10	.....	sw.	0	0	r'gh	se.	squally.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. City of Chester, N 42° 15′, W. 124° 40′*†.	30.40	772.1	52	11.1	86	n.	.....	.....	3	.....	10	.....	n.	.....	.....	sm'h	.....	foggy.
S. S. Oregon, N. 39° 02′ W. 124° 03′ †	30.33	770.4	51	10.6	93	nnw.	.....	.....	3	.....	0	.....	.....	.....	.....	.....	.....	fine.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, N. 34° 00′, W. 119° 05′†	30.12	765.0	55	12.8	87	sse.	.....	.....	1	.....	10	.....	se.	.....	.....	sm'h	w.	cloudy.
S. S. G. W. Elder, Departure Bay, Alaska†	30.03	762.7	44	6.7	.....	nw.	.....	.....	3	.....	3	.....	nw.	0	0	sm'h	.....	clear.
S. S. Idaho, San Francisco, Cal.†	30.11	764.8	63	17.2	46	nw.	.....	.....	4	.....	2	.....	nw.	.....	.....	.....	.....	clear.
S. S. State of California, Portland, Oregon†	30.36	771.1	51	10.6	86	se.	.....	.....	4	.....	5?	.....	sw.	0	0	.....	.....	cloudy.?
S. S. Victoria, N. 43° 33′ W. 124° 49′†	30.37	771.5	47	8.3	92	n.	.....	.....	2	.....	8	.....	.....	.....	.....	light	nw.	hazy.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, Sydney, N. S. W.	29.96	761.0	70	21.1	85	n.	.....	.....	1	.....	0	.....	.....	0	0	.....	.....	clear.
S. S. City of New York, S. 8° 40′, W. 168° 40′†	29.97	761.2	80	26.7	100	sw.	.....	.....	3	.....	5?	.....	.....	0	0	sm'h	ne.	overcast.?
S. S. City of Pekin, N 9° 58′. W. 84° 46′†	29.94	760.5	77	25.0	86	calm	.....	.....	0	.....	.....	.....	.....	0	0	sm'h	.....	clear.
S. S. City of Rio de Janeiro, N. 24° 55′, W. 112° 33′†.	30.25	768.3	72	22.2	76	nw.	.....	.....	2	.....	0	.....	.....	0	0	long	nw.	clear.
S. S. City of Sydney, S. 35° 39′, E. 169° 42′†	30.03	762.7	65	18.3	73	sw.	.....	.....	4	.....	5	.....	sw.	0	0	mod.	se.	fair.
S. S. Clyde, N. 17° 57′, W. 103° 33′ †	30.01	762.2	74	23.3	81	0.	.....	.....	2	.....	8	.....	ene.	0	0	light	ssw.	cloudy.
S. S. South Carolina, La Union, San Salvador†	30.13	765.3	84	28.9	61	var.	.....	.....	1	.....	0	.....	.....	0	0	sm'h	.....	fine.
QUEBEC STEAMSHIP CO.																		
S .S. Muriel,. N 37° 45′, W. 72° 41′	.....	.....	.....	.....	.....	sw.	.....	.....	3	.....	2	.....	.....	0	0	mod.	s w.	fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
RED STAR LINE.																		
S. S. Rhynland, N. 40° 19′, W. 62° 03′	30.42	772.7	50	10.0	72	ssw.			5		10		ssw.	0	0	light	wnw.	cloudy.
S. S. Switzerland, N. 43° 49′. W. 39° 29′†	30.08	764.0				wsw.			5		8		wsw.	6 h'r	6 h'r	cross	wsw.	clearing.
S. S. Waesland, N. 49° 42′ W. 6° 15′	30.38	771.6	52	11.1		nw.			4		5		nw.	0	0	mod.	nw.	cloudy.
ROTTERDAM LINE.																		
S. S. Schiedam, N. 51° 40′, E. 3° 00′*	30.05	763.3	58.5	14.7	81	w.			5		4		nnw.	6 h'r	6 h'r	r'gh	nw.	fair.
S. S. W. A. Scholten, N. 48° 10′, W. 32° 17′*	29.67	753.6	59.0	15.0	94	sw.			6		9		wsw.	3 h'r	3 h'r	high	w.	cloudy.
THINGVALLA LINE.																		
S. S. Thingvalla, Copenhagen, Denmark†	29.72	754.9	44.6	7.0		nne.			2		4		nne.	3 h'r	3 h r			clear.
WARREN LINE.																		
S. S. Iowa, N. 50° 40′, W. 15° 00′.*†	30.44	773.2	50	10.0		wsw.			5		9		wsw.	0	0	long	wnw.	cloudy.
WHITE STAR LINE.																		
S. S. Adriatic, N. 43° 44′ W. 41° 23′*†	30.14	765.5	42	5.6		w.			9		10		w.	shr's	shr's	mod.	w.	cloudy.
S. S. Celtic, N. 40° 53′, W. 60° 43′†	30.37	771.4	42	5.6	91	calm			0		10		w.	0	0	sm'h		cloudy.
WILSON LINE.																		
S. S. Otranto, N. 40° 22′, W. 59° 35′†	30.44	773.2	50	10.0		w.			3		10		wsw.	0	0	mod.	cross	cloudy.
S. S. Romano, Hull, Eng*†	29.83	757.7	56	13.3		w.			1		10			0	0			overcast.
S. S. Salerno, N. 47° 31′, W. 27° 43′†	30.14	765.5	64	17.8		ssw.			3		3		ssw.			mod.	ssw.	misty.
WINSOR LINE.																		
S. S, Catherine Whiting, Brandywine, Pa.†	30.04	763.0				ssw.			1									
S. S. Norman, N. 42° 08′, W 70° 15′	30.18	766.6				sw.			10		10		s.	0	0	sm'h	e.	cloudy.
MISCELLANEOUS.																		
Schr. Addie Fuller, Cedar Keys, Florida†	30.17	766.3	68	20.0	90	sse.			3	0	0			0.04	1.0			clear.
Bk. Adelaide, Rio de Janeiro, Brazil*†	30.10	764.5	82	27.8		ne.								0	0			clear.
Bk. Aureola, N. 35° 42′ W. 61° 13′*†	30.74	780.8	61	16.1		nnw.			1		4		n.	0	0	mod.	nnw.	fair.
Bk. Bergenseren, N. 35° 48′, W. 24° 50′†	30.48	774.2				ene.			1				e.	0	0	1	e.	fair.
Bk. Celestina, N. 1° 02′ W. 28° 55′*†	29.92	760.0				nnw.			1		2		n.	0	0	little	ese.	
S. S. Compton, Cardenas, Cuba, W. I†	30.16	766.1				se.			2		0			0	0			clear.
Bk. E. L. Pettingill, S. 10° 15′ W. 109° 41′†	30.00	762.0				ese.			3		1		ese.	0	0	sm'h		clear.
S. Enoch Train, Off Beachy Head, Eng.*	30.10	764.5				wnw.			4		5		nw.	0	0			hazy.
S. Exporter, N. 37° 25′, W. 64° 02′*†	30.50	774.7				s.			4		2		sw.	0	0	mod	sw.	very fine.
S. Festina Lente, N. 62° 28′, W. 2° 27′*	29.07	738.4	43	6.1		nne.			7		10		nne.	5 h'r	5 h'r	h'vy	w.	cloudy.
U.S. F.C.S. Fish Hawk, Washington, D. C.†	30.04	763.0	55	12.8	100	s.			5		10		s.	0.40	10.2			raining.
Bk. Freya, Baltimore, Md.			44	6.7		s.			3		10		s.	4 h'r	4 h'r			fair.
S. Grecian, S. 10° 08′, W. 33° 00′*†	30.00	762.0	81	27.2		ese.			3		1		ese.	0	0	sm'h	e.	clear.
Bk. Geo. Booth, Cape Good Hope, Africa*†	29.60	751.8				var.												thnd'r storm.
Bk. Granville, S. 32° 44′, W. 18° 46′*†	30.30	769.6				nne.			4				nne.	rain	rain	rg'h	e.	raining.
S. Hedwig, N. 60° 11′, W. 3° 01′	29.23	742.4	45.1	7.3	82	w.			10		7		w.	3 h'r	3 h'r	8	w.	stormy.
Schr. Henry Denison, N. 14° 54′ W. 69° 50′†	30.10	764.5				ene.			4		3		ene.	0	0	mod.	ene.	fair.
Bk. Johanne Auguste, S 2° 00′. E. 89° 42′*	29.74	755.4				calm.			0		6		nw.	3 h'r	3 h'r	cross	nne.	threatening.
Bg John Wesley, N. 23° 54′, W. 79° 31′†	30.08	764.0	80	26.7		se.			2		9			0	0	chop	s.	squally.
Bkt. Josephine, N. 11° 23′, W. 78° 35′*†	30.14	765.5	80	26.7	74	e.			5		2		ne.	0	0	mod	e.	fair.
Bk. Liberia, N. 35° 18′, W. 57° 35′*	30.37	771.4				nw.			6		7?			0	0			clear.?
Schr. Maggie Abbott, N. 35° —′, W. 75° —′*†	30.22	767.6				s.			5				ssw.	rain	rain	h'vy	s.	cloudy.
S. S. Nebo, N. 12° 44′, W. 47° 05′*†	29.92	760.0				ene.			4		1		ene.	1 h'r	1 h'r	mod.	ene.	clear.
Bk. Peppina, N. 36° 27′, W. 4° 34′†	30.04	763.0	61	16.1	71	ese.			6		5?		e.			rg'h	e.	cloudy?
Bk. Pilgrim, S. 44° 20′, E. 120° 00′*†	30.00	762.0				w.			3		fg		w.	0	0	long	sw.	foggy
Bg. Potomac, N 28° 58′, W. 63° 13′*†	30.40	772.1				ene.			3				e.			mod.	ne.	fine.
Bkt. Spotless, N. 27° 35′, W. 41° 26′*†	30.20	767.1				ese.							s.			mod.	ese.	clear.
Bk. Stella, S. 56° 44′, W. 66° 00′*	29.99	761.7	38.3	3.5	92	sw.			10		8			0	0			squally.
Bg. Wauburn, S. 8° 03′, W. 28° 13′*†	30.00	762.0				ese.			5		3		ene.			light	e.	
S. Wm. Woodbury, N. 58° 20′, E. 1° 45′*†	29.20	741.7	46	7.8	69	w.			6		1		nw.			mod.	sw.	clear.

on,



Data, as appearing in the International Bulletin of similar date.

Isobars in *black* exhibit atmospheric pressure at sea-level, and are charted from data as reported by the several observers.

Isotherms in *red* exhibit temperature of air, similarly charted.

Broken or dotted lines indicate that the lines so broken are doubtful.

Arrows, when charted, fly with the wind and exhibit wind-direction and force.

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W. B. Hazen

Brig. & Bvt. Maj. Gen'l.
Chief Signal Officer. U. S. A.

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INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON MARCH 28, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours	.....	.....	30.20	767.0	56.8	13.8	87	wsw.	.....	.....	6	.....	10	.....	.....	0.118	3.0	covered.....	Molroud.
Algiers	.....	.....	.....	.....	57.6	14.2	78	n.	.....	.....	1	.....	10	.....	.....	0.673	17.1	covered.....	Nicolas.
La Calle	.....	.....	29.97	761.1	56.5	13.6	78	w.	.....	.....	4	.....	5	.....	.....	0.177	4.5	cloudy	Fonfréde.
Tunis	.....	.....	29.87	758.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.13	765.3	43.2	6.2	67	n.	.....	.....	2	.....	4	.....	.....	0	0	cloudy.....	Dumas.
Tebessa	.....	.....	30.00	762.1	51.8	11.0	77	nw.	.....	.....	1	.....	6	.....	.....	0	0	cloudy.....	Derché.
Geriville	.....	.....	.....	.....	54.3	12.4	12	nnw.	.....	.....	7	.....	5	.....	.....	inap.	inap.	cloudy	Louchamp.
Laghouat	.....	.....	30.15	765.9	51.8	11.0	70	nw.	.....	.....	3	.....	1	.....	.....	0	0	very fair.....	Herbin.
Biskra	.....	.....	30.04	763.0	55.0	12.8	43	n.	.....	.....	2	.....	10	.....	.....	inap.	inap.	covered.....	Malau.
Australian.																			
Melbourne, Victoria	29.55	750.6	29.64	752.8	69.1	20.6	69	n.	12	5.4	.....	.....	9	.....	.....	0.03	0.8	dull.....	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.57	751.0	30.12	765.1	51.1	10.6	60	s.	.....	.....	1	.....	6	.....	.....	0	0	.....	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.20	741.6	29.97	761.3	48.9	9.4	44	w.	13.6	6.1	.....	.....	7	.....	.....	0.028	0.7	.....	Dr. Wierzbiski.
Eperies	29.05	737.9	29.93	760.3	50.9	10.5	57	calm	.....	.....	0	cs	6 ks	.....	s.	0	0	.....	Julius Mikolik.
Gratz	28.85	732.8	30.11	764.9	51.8	11.0	39	nw.	.....	.....	4	.....	3	.....	.....	0	0	.....	Andreas Rospini.
Hermannstadt	28.51	724.1	29.94	760.5	53.4	11.9	59	nw.	.....	.....	3	.....	10	.....	.....	0.091	2.3	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.81	731.7	30.19	766.7	43.5	6.4	73	wnw.	.....	.....	3	.....	10	.....	.....	0.071	1.8	raining.....	The Staff.
Lemberg	28.95	735.3	29.95	760.8	44.6	7.0	79	nw.	.....	.....	1	.....	10	.....	.....	0.240	6.1	.....	Dr. T. Stanecki.
Pola	29.97	761.3	30.09	764 2	53.6	12.0	52	e.	.....	.....	4	.....	3	.....	.....	0.094	2.4	.....	I. R. Hydrographic Office.
Szathmar	29.49	749.1	29.95	760.8	46.8	8.2	82	w.	.....	.....	2	.....	10	.....	.....	0.098	2.5	.....	Joseph Midlinszky, S. J.
Szegedin	29.75	755.6	30.03	762.8	50.4	10.2	60	nw.	.....	.....	1	.....	10	.....	.....	0.142	3.6	.....	Karl Stancel.
Trieste	30.02	762.4	30.12	765.0	54.3	12.4	40	ne.	.....	.....	2	.....	0	.....	.....	0	0	.....	Rieder.
Vienna	29.38	746 3	30.11	764.8	48.7	9.4	46	w.	.....	.....	5	.....	2	.....	.....	0.016	0.4	.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.64	752.8	29.73	755.1	54.7	12.6	68	sw.	16	7.2	.....	.....	9	.....	.....	0.150	3.8	overcast.....	W. Boswell.
Armagh, Observatory	29.71	754.6	29.96	761.0	52.2	11.2	97	wsw.	16	7.2	.....	.....	10	.....	.....	.....	.....	squally	S. Call.
Bidston, Liverpool Obs'y	.....	.....	30.04	763.0	52.7	11.5	79	sw.	26	11.6	.....	.....	10	.....	.....	.....	.....	overcast.....	John Hartnup.
Bolton, Sharples	29.49	749.0	30.03	762.7	49.6	9.8	89	wsw.	12	5.4	.....	.....	10	.....	.....	.....	.....	raining.....	Thomas Mackereth.
Bradford, Yorkshire	29.59	751.6	29.99	761.7	49.8	9.9	84	w.	.....	.....	1	.....	10	.....	.....	0.01	0.3	overcast.....	J. McLandsborough, F. R
Bridgetown, Barbadoes	30.02	762.5	30.05	763.3	81.0	27.3	70	ne.	.....	.....	2	.....	3	.....	.....	.....	.....	d. clouds.....	Pvt. J. Surgenor, A. H.C.
Cardington	.....	.....	30.12	765.0	55.0	12.8	70	w.	.....	.....	1.0	.....	8	.....	.....	.....	.....	overcast.....	John McLaren.
Chatham, School M. E.	30.07	763.8	30.20	767.1	53.3	11.8	66	sw.	.....	.....	1	.....	9	.....	.....	.....	.....	d. clouds.....	Lance Opl. G.A. Pickles.
Falmouth, Observatory	30.06	763.5	30.29	769.4	52.0	11.1	76	wsw.	.....	.....	4	.....	10	.....	.....	.....	.....	overcast.....	The Staff.
Fort Napier, Natal	27.79	705.9	30.00	762.0	82.2	27.9	52	calm	.....	.....	0	.....	0	.....	.....	.....	.....	blue sky.....	Pvt. E. K. Annis, A. H.C.
Free Town, Sierra Leone	29.64	752.8	29.87	758.7	88.0	31.1	66	w.	.....	.....	1	.....	3	.....	.....	.....	.....	d. clouds.....	Sergt. John Robinson.
Galway, Queen's College	.....	.....	29.96	761.0	.....	.....	.....	sw.	.....	.....	3	.....	10	.....	.....	.....	.....	overcast.....	J. O'Donaghue.
Gibraltar, Mediterranean	30.15	765.8	30.20	767.1	65.4	18.6	73	e.	.....	.....	3	.....	0	.....	.....	.....	.....	blue sky.....	Opl. O. Baldwin.
Glasgow, Observatory	29.62	752.3	29.82	757.4	48.8	9.3	94	wsw.	.....	.....	5	.....	10 n	.....	.....	.....	.....	foggy	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	30.02	762.5	30.20	767.1	52.7	11.5	72	wsw.	.....	.....	4	.....	10	.....	.....	.....	.....	overcast.....	The Staff.
Guernsey	30.05	763.3	30.36	771.1	52.0	11.1	72	wnw.	.....	.....	2	.....	9	.....	.....	.....	.....	drizzling..	A. Collenette, F. M. S.
Kew, Observatory	30.17	766.3	30.20	767.1	52.0	11.0	61	w.	17	7.6	.....	.....	10	.....	.....	.....	.....	threatening.	The Staff.
Leicester, Museum	29.65	758.2	30.11	764.8	51.5	10.8	72	nw	.....	.....	1	.....	10	.....	.....	.....	.....	overcast.....	J. O. Smith.
Malta, Mediterranean	29.68	753.9	29.76	755.9	58.0	14.4	93	e.	.....	.....	3	.....	10	.....	.....	.....	.....	overcast.....	I. H. Whysall.
Nassau, Bahamas	30.16	766.1	30.21	767.3	78.0	25.6	77	se.	.....	.....	3	.....	7	.....	.....	.....	.....	d. clouds.....	C. S. Duncombe.
Oscott, St. Mary's College	29.60	751.8	30.13	765.3	49.3	9.6	81	sw.	.....	.....	3	.....	10	.....	.....	.....	.....	overcast.....	John Mac Email.
Oxford, Radcliffe Obs'y	29.96	761.0	30.18	766.6	52.1	11.2	72	sw.	.....	.....	5	.....	10	.....	.....	.....	.....	overcast.....	The Staff.
Plymouth	30.20	767.1	30.28	769.1	51.2	10.7	86	wsw.	.....	.....	4	.....	10	.....	.....	.....	.....	overcast.....	John Merrifield.
Sandwick Manse, Orkneys	.....	.....	29.72	754.9	45.5	7.5	73	nw.	5	2.2	1	.....	10	.....	.....	.....	.....	misty.....	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.92	760.0	29.98	761.5	60.0	15.6	55	s.	.....	.....	1	.....	1	.....	.....	.....	.....	blue sky.....	W. H. Lyne.
Sheffield	29.76	755.9	30.04	763.0	52.8	11.6	79	sw.	.....	.....	2	.....	9	.....	.....	inap.	inap.	overcast.....	W. F. Cooper.
Silloth Rectory	29.88	758.9	29.91	759.7	47.0	8.3	94	sw.	.....	.....	5	.....	10	.....	.....	0.036	0.9	raining.....	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	30.03	762.7	47.9	8.8	92	wsw.	20	8.9	.....	.....	10	.....	.....	.....	.....	raining.....	R. S. J. Perry.
Stratfield Turgiss	30.00	762.0	30.22	767.6	52.1	11.2	70	w.	.....	.....	2	.....	9	.....	.....	.....	.....	d. clouds.....	Rev. C. H. Griffiths, F.M.S.
Truro, Royal Institution	30.22	767.6	30.26	768.6	58	14.4	69	w.	.....	.....	6	.....	6	.....	.....	.....	.....	d. clouds.....	W. Newcombe.
Valencia, Observatory	30.09	764.3	30.11	764.8	52.7	11.5	93	sw.	28	12.5	.....	.....	10	.....	.....	.....	.....	misty.....	The Met'g'l Office.
Canadian.																			
Bathurst, N. B	.....	.....	.....	.....	43.0	6.1	.....	s.	2	0.9	.....	.....	10 s	.....	sw.	0	0	cloudy	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.37	746.0	29.42	747.3	39	3.9	93	s.	18	8.0	.....	.....	10 n	.....	s.	0.030	0.8	cloudy.....	H. J. Cundall, C. E.
Chatham, N. B*	29.25	742.9	29.31	744.5	41	5.0	92	s.	5	2.2	.....	.....	10 n	.....	.....	0.41	10.4	cloudy	G. A. Blair.
Cornwall, Ontario	29.55	750.6	29.76	755.9	24.1	— 4.4	81	nw.	.....	.....	1	.....	10 s	.....	.....	0.142	3.6	cloudy	James Smith, M. A.
Dalhousie, N. B	29.03	737.3	29.19	741.4	35.0	1.7	.....	calm	.....	.....	0	.....	10 n	.....	w.	0.30	7.6	snowing.....	H. A. Johnson.
Father Point, Quebec*	29.27	743.4	29.29	744.0	31	— 0.6	100	w.	43	19.2	.....	.....	10 s	.....	sw.	0.18	4.6	cloudy.....	J. McWilliams.
Fort Garry, Manitoba*	28.40	721.3	29.26	743.2	18	— 7.8	96	sw.	14	6.3	.....	2 k	5 ks	sw.	.....	0.082	2.1	clearing.....	James Stewart.
Fredericton, N. B	29.31	744.5	29.38	746.2	41.1	5.0	91	nw.	3	1.3	.....	.....	10 s	.....	.....	0.515	13.1	cloudy.....	Prof. Harrison.
Granton, Ontario	28.82	732.0	30.00	762.0	24.2	— 4.3	97	nw.	.....	.....	1	.....	10 n	.....	sw.	inap.	inap.	cloudy.....	James Grant.
Halifax, N. S*	29.44	747.8	29.57	751.1	43	6.1	100	sw.	15	6.7	.....	.....	10 n	.....	.....	1.051	26.7	heavy rain...	A. Allison.
Hamilton, Ontario	29.50	749.3	29.91	759.7	29.2	— 1.6	87	sw.	.....	.....	3	10 ck	0	w.	.....	0	0	cloudy.....	Geo. Dickson, B. A.
Kingston, Ontario*	29.49	749.0	29.84	757.9	25	— 3.9	88	nw.	15	6.7	.....	0	2 k	.....	nw.	0.11	2 8	fair.....	A. P. Knight, M. A.
Little Glace Bay, N. S	29.48	748.8	29.52	749.8	38.6	3.7	96	s.	.....	.....	7	.....	10 n	.....	.....	inap.	inap.	raining.....	C. H. Rigby.
Montreal, Quebec*	29.49	749.0	29.70	754.4	25	— 3.9	64	w.	26	11.6	.....	0	0	.....	.....	0.43	10.9	clear.....	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.27	743.4	30.02	762.5	12	—11.1	61	n.	11	4.9	.....	0	0	.....	.....	0.43	10.9	clear.....	Rev. R. Mosley.
Peterboro, Ontario	29.13	739.9	29.92	760.0	23.4	— 4.8	86	nw.	.....	.....	2	0	3 ks	.....	.....	0	0	fair.....	J. Dixon, B. A.
Port Dover, Ontario	29.20	741.7	29.92	760.0	29	— 1.7	89	nw.	12	5.4	.....	10 k	0	nw	.....	0.17	4.3	cloudy.....	H. Morgan.
Port Stanley, Ontario	29.27	743.4	29.95	760.7	27	— 2.6	88	nw.	12	5.4	.....	.....	10 n	.....	.....	0.03	0.8	cloudy.....	M. Payne.
Quebec, Quebec*	29.18	741.2	29.51	749.5	29	— 1.7	92	nw.	.....	.....	1	.....	10 s	.....	.....	0.49	12.4	clearing.....	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.51	749.5	30.01	762.2	8	—13.3	76	nw.	6	2.7	.....	0	0	.....	.....	0.17	4.3	clear.....	W. H. McIntyre.
Saugeen, Ontario*	29.24	742.7	30.00	762.0	22	— 5.6	76	ne.	8	3.6	.....	.....	10 s	.....	.....	0.17	4.3	cloudy	
St. Andrews, N. B	29.32	744.7	29.37	746.0	39	3.9	95	calm	0	0	.....	.....	fg.	.....	.....	0.13	3.3	light rain....	
St. John, N. B	29.21	741.9	29.38	746.2	39.0	3.9	100	sw.	15	6.7	.....	.....	10 n	.....	.....	0.41	10.4	raining	G. Murdock, C. E.
St. Pierre, N. F	.....	.....	29.84	757.9	35.6	2.0	.....	sw.	.....	.....	1	.....	.....	.....	.....	1.160	29.5	.....	N. F. Land, Com't.
Stratford, Ontario	28.59	726.2	29.95	760.7	22.0	— 5.6	93	nw.	6	2.7	.....	.....	10 s	.....	.....	1.28	32.5	.....	C. I. Macgregor, M. A.
Sydney, C. B*	29.55	750.6	29.62	752.3	43	6.1	96	sw.	39	17.4	.....	.....	10 n	.....	.....	0.038	1.0	cloudy	T. C. Hill, C. E.
Toronto, Ontario*	29.57	751.1	29.97	761.2	25	— 3.9	73	n.	22	9.8	.....	.....	10 ks	.....	n.	0.59	15.0	light rain....	Magnetic Observatory.
Windsor, N. S	29.36	745.7	29.46	748.3	44.0	6.7	96	s.	12	5.4	.....	.....	10 n	.....	.....	0.03	0.8	cloudy	Prof. Wolverton
Woodstock, Ontario	28.81	731.8	29.92	760.0	26.5	—3.1	78	nw.	16	7.2	.....	.....	10 ks	.....	.....	0.20	5.1	cloudy	Prof. W. R. Butler.
Yarmouth, N. S*	29.42	747.3	29.49	749.0	41	5.0	100	s.	15	6.7	.....	.....	fg.	.....	.....	0	0	cloudy	Lt. F. E. Wilmot, R. N.
Sub-series.																0.45	11.4	foggy.....	
St. Johns, Newfoundland	29.88	758.9	30.14	765.5	35	1.7	100	s.	5	2.2	.....	.....	10 n	.....	.....	.....	.....	raining.....	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.11	764.8	30.14	765.5	73.5	23.1	87	e.	8.3	3.7	.....	4 c	0	.....	.....	0	0	dense haze..	John Duthie.
Cape Town, C. G. H. Obs'y	29.95	760.7	29.99	761.7	85.0	29.4	57	n.	13	5.8	.....	2	4	.....	.....	0.090	2.3	.....	The Staff, for D. Gill.

STATIONS.	BAROMETER. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	WIND. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	CLOUDS. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
CHINESE (*Sub-series*).																			
Hankow	29.83	757.7	30.11	764.8	57.5	14.2	59	se.			4		0			0	0		N. Titoushkin.
Zi-Ka-Wei, near Shanghai.	30.13	765.4	30.16	766.0	45.0	7.2	69	se.	6.5	2.9			0			0	0	clear	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	29.80	757.0	29.85	758.2	46.8	8.2	65	nw.	25	11			7						Oversergent Fischer.
Faröe	29.86	758.4	29.88	758.9	47.1	8.4	88	w.			4		9						Overloerer Lauridsen.
Godthaab, Greenland	29.48	748.8	29.52	749.9	16.2	— 8.8	85	sse.			4		10						S. Kleinschmidt.
Stykkisholm, Iceland	29.54	750.4	29.59	751.5	23.7	— 4.6	81	e.			4		0						A. O. Thoriacius.
Thorshavn	29.70	754.3	29.73	755.2	37.0	2.8	54	n.	16	7			4						Overloerer Bergh.
Vestervig	29.70	754.4	29.79	756.7	44.1	6.7	93	w.			6		10						Loerer Oesterbol.
FRENCH.																			
Agen, Normal School	29.73	755.2	30.40	772.1	52.2	11.2	50	calm			0		k		n.	0	0		M. Labroue, Director.
Alençon, Normal School	29.92	759.9	30.45	773.3	50.0	10	74	s.			1		kn		n.	0	0		M. Nicot, Director.
Arras, Engineer School	29.97	761.2	30.23	767.8	49.1	9.5	76	w.			3		1c			0	0	covered	M. Klein, Commandant.
Avignon, Normal School	30.06	763.6	30.14	765.6	57.2	14	30	n.			4		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.76	755.9	30.33	770.3	50.9	10.5	54	sse.			1		10			0	0	covered	M. Saillard, Director.
Beauvais, Normal School	30.04	763.0	30.31	769.9	51.6	10.9	58	nw.			1		10		nw.	0	0	covered	M. Frère Eugène Mari.
Besançon, Normal School	29.36	745.8	30.27	768.9	48.2	9	76	ne.			1	c	0	s.		0	0		M. Gobin, Director.
Bordeaux, Observatory	30.15	765.8	30.41	772.5	51.8	11.0	46	n.			1		8			0	0	very cloudy	M. Rayet, Director.
Bourges, Normal School	29.83	757.6	30.40	772.2	51.8	11	52	n.					ks		n.	0	0		M. Postel, Director.
Brest, Naval Observatory	30.14	765.6	30.39	771.8	50.8	13.8	71	w.			2		9		w.	0	0		M. de Kermaree, Dir.
Caen, Normal School	30.23	767.9	30.31	769.8	53.6	12	74	w.			1		10			0	0	covered	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.89	759.2	30.21	767.4	50.9	10.5	82	calm			0		8			0	0	very cloudy	M. Jadot, Director.
Charleville, Normal School	29.75	755.7	30.28	769.0	51.4	10.8	79	nnw.			1		1c			0.04	1.	covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.96	735.5	30.35	770.9	47.5	8.6	47	n.			2		10			0	0	covered	M. Alluard, Director.
Cluny, Normal School	29.20	741.7	30.30	769.5	48.9	9.4	66	nw.			2		6		nw.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.43	747.6	30.32	770.2	49.1	9.5	56	wnw.			1	c	10 n	wnw.	wnw.	0	0	covered	Dr. Coulet, Director.
Gap, Normal School	27.54	699.6	30.10	764.6	51.4	10.8	43	se.			3					0	0		M. Jeangirard, Director.
Gréasque, du. Rhone	28.96	735.6	30.08	764.1	58 5	14.7	27	w.			2		0			0	0	clear	M. Kina, Director.
Grenoble, Normal School	29.44	747.7	30.22	767.5	50.4	10.2	46	ne.			2	2 ck	0	ne.		0	0	slightly cl'dy	M. Ablard, Director.
Guéret, Normal School	28.75	730.2	30.36	771.2	45.9	7.7	59	nw.			1		n		s.	0	0		M. Rivoire, Director.
Lamballe, Normal School	30.11	764.8	30.39	771.8	51.1	10.6	68	w.			2		8		w.	0	0	very cloudy	M. Olitrault, Director.
Lescar, Normal School	29.74	755.3	30.31	769.8	53.2	11.8	56	nne.			1		5			0.004	0.1	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	30.37	771.5	30.48	774.1	51.8	11.0	75	w.			2		10		nw.	0	0	covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.22	742.2	30.30	769.6	50.2	10.1	41	n.			2		8		n.	0.008	0.2	¾ covered	M. André, Director.
Mans, Normal School	30.08	763.9	30.39	771.9	53.1	11.7	45	w.			1		8		nw.	0	0	very cloudy	M. Piboen, Director.
Marseille, Observatory	29.82	757.3	30.09	764.2	59.5	15.3	50	nnw.			2		0			0	0		M. Stephan, Director.
Montlouis l'instituteur	24.88	632.0	29.72	755.0	33.8	1.0	73	n.	31.8	14.2			4		se.	0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	30.03	762.7	30.16	766.0	58.6	14.8	38	ne.			3		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.50	749.4	30.30	769.6	49.6	9.8	58	wsw.			1	0	8 kn			0	0	very cloudy.	M. Hasse, Director
Nantes, Observatory	30.28	769.2	30.45	773.3	54.9	12.7	51	wnw.			0–2		10 kn		nw.	0	0		M. Larocque, Director.
Perpignan, Observatory	30.10	764.4	30.21	767.2	55.9	13.3	35	n.	26.2	11.7			2	ne.	nnw.	0	c		Dr. Fines, Director.
Pic-du-Midi, Summit	21.26	539.9			13.6	—10.2		ne.			2		1		w.	0.354	9.0	clear	Gen'l de Nansouty, Dir.
Privas, Normal School	29.13	739.9	30.21	767.3	52.9	11.6	36									0.04	1.		M. Taillieu.
Puy de Dôme Obs'y, Summit	25.31	642.9			26.1	— 3.3	100	n.			3		10			0.043	1.1	covered	M. Alluard, Director.
Rochefort, Naval Obs'y	30.38	771.6	30.41	772.4	55.4	13.0	70	wnw.			1		10		nw.	0	0	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	30.17	766.2	30.38	771.7	52.9	11.6	45	n.			2		5		se.	0	0	cloudy	M. Mouillot, Director.
Rodez, Normal School	28.10	713.7	30.32	770.0	44.2	6.8	62	nw.			1		10		nw.	0	0	covered	M. Serger, Director.
Rouen, Normal School	30.24	768.0	30.32	770.1	51.8	11	63	wsw.			1		8			0	0	very cloudy	M. Platrier, Director.
Saint Maur, Observatory	30.16	766.1	30.33	770.3	51.1	10.6	57	wnw.			2		10		wnw.	0	0		M. Renou, Director.
Toulouse, Observatory	29.67	753.6	30.40	772.2	51.6	10.9	45	nnw.			2		8		n.	0	0	very cloudy	M. Baillaud, Director.
Versailles, Observatory	29.83	757.7	30.32	770.2	49.6	9.8	62	w.			1					0	0		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	30.04	763 1	30.34	770.5	51.4	10.8	53	w.			1		10		w.	0	0		M. Marié Davy, Director
GERMAN.																			
Bamberg	29.31	744.4	30.17	766.2	46.4	8.0	66	nw.			3	0	7k;s		nw.	0	0		Prof. Dr. Hoh.
Berlin	29.79	756.7	29.97	761.2	49.6	9.8	54	w.			4		10			0.272	6.9	raining	Prof. Dr. Arndt.
Breslau	29.48	748.7	30.01	762.2	46.2	7.9	55	wnw.			3		4			0.142	3.6		Royal University Obs'y.
Carlsruhe	29.82	757.5	30.28	769.0	48.4	9.1	81	sw.			5		10	nw.		0.098	2.5		Albert Senz.
Cassel	29.36	745.8	30.08	763.9	49.1	9.5	58	w.			4		8	w.		0.039	1.0		Dr. H. Möhl.
Frankfort on the Main	29.80	756.9	30.17	766.3	53.6	12.0	53	nw.			1		8			0	0		Physical Society.
Friedrichshafen	28.84	732.4	30.30	769.7	46.9	8.3	71	sw.			4		8	sw.		0	0		Wilhelm, Chief Tel.
Hamburg	29.92	759.9	30.01	762.3	48.2	9.0	83	w.			5		10			0.043	1.1		E. Preller.
Kiel	29.87	758.7	29.89	759.1	47.7	8.7	76	w.			2		10			0.035	0.9		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.65	753.0	30.07	763.8	45.7	7.6	82	wsw.			4		10	w.		0.535	13.6	raining	H. Leppig, Asst.
Magdeburg	29.84	757.8	30.03	762.7	50.7	10.4	72	wnw.			5	0	9 ks		nw.	0.071	1.8		Dr. Assmann.
Memel	29.77	756.2	29.82	757.4	41.9	5.5	86	wsw.			4		10 s						Issermann.
Munich	28.39	721.0	30.26	768.7	42.8	6.0	58	nw.			4		10	w.		0.146	3.7		Central Station.
Neufahrwasser	29.81	757.2	29.83	757.6	45.0	7.2	65	wnw.			3		9	w.		0.012	0.3		A. Lothes.
Neustadt, Palatinate	29.67	753.7	30.21	767.2	51.8	11.0	61	w.			5		4	w.		0	0		Dickmether.
Stuttgart	29.26	743.1	30.16	766.1	50.0	10.0	56	nw.			1		10			0	0		Prof. Dr. Schoder.
Wustrow	29.93	760.2	29.95	760.8	45.5	7.5	80	wsw.			3	0	3 s			0	0		Profs. Brandes & Reimer.
GREEK.																			
Athens	29.62	752 3	30.01	762.2	65.8	18.8		sw.			2.5		6k			0	0		Schmidt & Wourlisch.
INDIAN.																			
Bellary	28.28	718.3			100.1	37.8	9	e.	7.1	3.2		0	0			0	0	blue sky	
Kurrachee	29.80	756.8	29.85	758.2	83.0	28.3	33	wsw.	30	13.4			3			0	0	misty	
Deesa	29.28	743.7	29.74	755 5	92.7	33.7	33	wsw.	12.5	5.6			0			0	0	blue sky	
Bombay	29.78	756.4	29.82	757.5	83.7	28.7	59	nw.	20	8.9			0			0	0	blue sky	
Poona, Yarrowda	27.95	709.8	29.74	755.5	94.9	34.9	13	wnw.	18	8.0			0			0	0	blue sky	
Belgaum	27.27	692.6	29.73	755.1	90.5	32.5	34	sw.	10	4.5			0			0	0	misty	
Lahore	28.95	735.4	29.69	754.1	84.0	28.9	34	n.	4.3	1.9			8			0	0	misty	
Roorkee	28.78	731.0	29.66	753.2	89.2	31.8	38	calm	6.2	2.8			2			0	0		
Agra	29.12	739.5	29.66	753.4	95.1	35.1	26	e.	2.3	1.0			0			0	0		
Nagpur	28.66	727.9	29.66	753.4	98.5	36.9	18	calm	4.4	2.0			0			0	0	blue sky	
Jubbulpore	28.38	720.8	29.69	754.0	96.5	35.8	13	nnw.	3.9	1.7			0			0	0	blue sky	
Lucknow	29.30	744.3	29.67	753.6	96.0	35.6	27	calm	4.0	1.8			0			0	0	blue sky	
Allahabad	29.36	745.8	29.66	753 4	95.7	35.4	29	calm	2.3	1.0			0			0	0	blue sky	
Patna	29.54	750.2	29.72	754.9	86.2	30.1	50	ene.	6.7	3.0			0			0	0	blue sky	
Hazaribagh	27.69	703.2	29.63	752.5	93.8	34.3	18	nw.	8.4	3.8			0			0	0	misty	
Cuttack	29.67	753.6	29.75	755.7	85.9	29.9	63	ssw.	7.5	3.4			5			0	0		
Calcutta, Alipore	29.68	753.9	29.70	754.5	83.9	28.8	68	ssw.	15.0	6.7			0			0	0	blue sky	
Dhubri	29.59	751.6	29.71	754.7	77.3	25.2	77	ene.	5.7	2.6			0			0	0	blue sky	
Chittagong	29.74	755.5	29.83	757.8	80.2	26.8	84	ssw.	6.9	3.1			5			0	0	d. clouds	
Sibsagar	29.50	749.3	29.85	758.1	66.3	19.1	95	ne.	2.8	1.2			10	w.	w.	0.40	10.2	overcast	
Jeypore	28.28	718.4	29.70	754.3	89.7	32.1	17	wnw.	4.9	2.2			0			0	0	misty	
Zanzibar, Africa	29.85	758.2			86.6	30.3	69	s.	6.0	2.7			6			0.40	10.2	d. clouds	
Trichinopoly	29.51	749.5			99.1	37.3	31	s.	2	0.9			7			0	0	d. clouds	
ITALIAN.																			
Udine	29.71	754.7	30.12	765.1	54.3	12.4	40	calm	0	0			0			0	0		Prof. Giovanni Clodig.
Milan	29.62	752.4	30.14	765.5	55.4	13.0	45	ese.	3.1	1.4			1	ne.		0	0		Prof. Schiaparelli.
Padua	30.02	762.4	30.13	765.2	54.5	12.5	37	e.	3.8	1.7			0			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.21	741.8	30.12	765.0	57.0	13.9	20	e.	3.8	1.7			0			0	0		Prof. P. F. Denza.
Genoa	29.89	759.1	30.08	764.0	59.0	15.0	23	nw.	7.4	3.3			0			0	0		Prof. G. M. Garibaldi.
Mondovi																			Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
ITALIAN.—Continued.																			
Pesaro	30.05	763.2	30.10	764.4	52.3	11.3	66	ne	10.5	4.7			10			0	0		Prof. Luigi Guidi.
Florence	29.79	756.7	30.05	763.2	54.7	12.6	55	ne.			6		1			0.110	2.8		Prof. Costantino Pitter.
Leghorn	29.89	759.1	29.97	761.3	56.5	13.6	46	ne.	6.3	2.8			3			0.039	1.0		Prof. P. Monte.
Rome	29.77	756.2	29.95	760.6	57.7	14.3	48	e.	6.3	2.8			10			0	0		Prof. P. S. Ferrari.
Lecce	29.70	754.4	29.95	760.8	61.9	16.6	68	ssw.	6.7	3.0			10	sse.		0.039	1.0		Prof. C. de Giorgi.
Cosenza	29.03	737.3	29.91	759.8	56.3	13.5	72	wsw.	3.1	1.4			10	w.		0.315	8.0		Prof. D. Conti.
Cagliari	29.70	754.4	29.89	759.3	58.6	14.8	42	sse.			2		4	n.		0	0		Prof. A. Pacinotti.
Palermo	29.64	752.9	29.89	759.3	55.8	13.2	76	w.	0.7	0.3			10			0.016	0.4		Prof. G. Ciaccialatore.
Syracuse	29.82	757.5	29.87	758.7	58.1	14.5	78	ese.	13.0	5.8			10	ese.		0.157	4.0		Prof. Vincenzo Guiliano.
Sub-series.																			
Naples, S. R	29.39	746.4	29.91	759.8	55.9	13.3	68	nw.	4.9	2.2			10			0.016	0.4		Prof. T. Brioschi.
Stelvio	22.14	562.4			19.6	— 6.9	70	ne.			4		0			0	0	misty	Prof. P. F. Denza.
Valdobbia	22.17	563.1			28.6	— 1.9	65	ne.			2		0			0	0	clear	Prof. P. F. Denza.
JAPANESE.																			
Aomori	29.86	758.4	29.89	759.2	36.4	2.4	71	w.	10.2	4.6		8 ck	0			0	0	fair	K. Ogawa.
Hakodate	29.82	757.4	29.83	757.7	39.0	3.9	63	nw.	10.8	4.8			10			0	0	overcast	
Hiroshima, I. M. Obs'y	30.09	764.3	30.11	764.8	41.4	5.2	79	nw.	1.9	0.8		0	0			0	0	clear	K. Sasaki.
Kanazawa	29.98	761.5	30.09	764.3	42.8	6.0	75	se.	4.1	1.8		ck	10 s			0.020	0.5	overcast	S. Endo.
Kioto	29.91	759.7	30.09	764.3	42.6	5.9	85	nnw.	1.1	0.5		ck	10 s			0	0	cloudy	M. Tojima.
Kochi	30.10	764.5	30.12	765.0	46.1	7.8	61	nw.	6.9	3.1		0	0			0	0	clear	
Nagasaki, I. M. Obs'y	29.98	761.5	30.19	766.8	44.6	7.0	72	nw.	1.1	0.5		4 ck	0			0	0	clear	S. Takehayashi.
Niigata	30.03	762.7	30.06	763.5	43.8	6.6	67	w.	10.6	4.7		10 ck	0			0.005	0.1	cloudy	
Nobiru	29.96	761.0	29.98	761.5	40.1	4.5	77	nnw.	5.2	2.3		ck	7 ks			0	0	fair	H. Midzushima.
Supporo					35.0	1.7	80	calm	0	0			3			0.165	4.2	clear	
Tokei Obs'y, Yeddo	29.92	759.9	29.99	761.7	47.0	8.3	73	sse.	4.4	2.0		8 ck	0	sw		0	0	cloudy	The Staff.
Wakayama	30.04	763.9	30.10	764.5	45.0	7.2	73	calm	0	0		10 ck	0	w.		0	0	cloudy	Y. Kuwamuea.
MAURITIUS.																			
Mauritius Observatory	29.80	756.9	29.98	761.5	76.6	24.8	84	ese.	12.5	5.6			10 n			0	0	overcast	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.72	602.4	29.94	760.4	60.6	15.9	71	ese.				0	9			0	0	cloudy	Vicente Fernandez.
Leon	24.43	620.4	30.12	765.1	57.6	14.2	78	wnw.			1	9	9	w.		0	0	covered	Prof. M. Leal.
Mazatlan	29.79	756.6	30.05	763.3	63.0	17.2	94	nw.	0.9	0.4		8 cs	0	sw.		map.	map.	very cloudy	F. Quijano, U. E.
Mexico, Central Obs'y	23.14	587.7	30.21	767.3	53.4	11.9	64					4	2	w.		0	0		M. Tena, M. D.
Morelia	24.31	617.5	30.46	773.7	57.6	14.2	67	s.			3	2	3	e.	e.	0	0	½ clouded	The Staff.
Pabellon, Aguascalientes	23.99	609.3	30.03	762.7	57.4	14.1	58	nnw.			2	0	9		wsw.	0	0	cloudy	M. Y. de Leon, M. E.
Puebla, Catholic Institute	23.42	594.8	30.17	766.2	52.7	11.5	71	calm	0	0		0	0			0	0	clear	Prof. P. Spina.
San Luis Potosi	24.26	616.0	30.23	767.8	56.8	13.8	57	se.			1		10		e.	0	0	covered	G. Barreda, M. D.
Vera Cruz																			
Zacatecas	22.60	573.7	30.29	769.3	48.2	9.0	67	ene.	9.1	4.0		8	0	se.		0	0	cloudy	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.21	767.3	30.21	767.3	51.8	11.0		wsw.			4					0	0		
Groningen	30.00	762.1	30.06	763.5	49.5	9.7		w.			4					0.008	0.2		
Helder	30.08	764.1	30.08	764.1	47.7	8.7		wsw.			4					0	0		
Hellevoetsluis	30.15	765.9	30.15	765.9	50.0	10.0	78	wsw.			3					0	0		
Utrecht	30.11	764.8	30.16	766.0	52.7	11.5	67	wsw.			3		8			0	0	very cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.48	748.9	29.55	750.5	42.4	5.8	88	s.	11	5			8			0.157	4.0	raining	
Brono	29.43	747.6	29.47	748.6	35.2	1.8	78	sw.	9	4			10			0.051	1.3		
Christiania	29.43	747.5	29.58	751.2	47.3	8.5	54	ssw.	9	4			1			0	0		
Gjesvær	29.35	745.5	29.37	746.1	35.6	2.0		sse.			4		6						
Lodingen	29.34	745.3	29.39	746.5	32.2	0.1	91	wsw.			6		10			0.020	0.5	snowing	
PORTUGUESE.																			
Angra, Azores					59.0	15.0	72	se.	6.3	2.8			5			0	0		Dr. J. A. Sampaio.
Campo Major	29.28	743.7	30.29	769.3	61.2	16.2	29	ese.	8.1	3.6			2			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.12	765.0	30.21	767.3	67.3	19.6	34	ne.					0			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.98	761.5	30.34	770.7	60.4	15.8	30	ne.	13.6	6.1			1			0	0		The Staff.
Ponta Delgada, Azores	30.37	771.5	30.45	773.3	61.9	16.6	58	sw.	4.9	2.2			3			0	0		
Saint Paul de Loando	29.71	754.7	29.91	759.8	79.0	26.1	97	wnw.	0.7	0.3			10			0	0		
Serra da Estrella	25.50	647.7	30.29	769.4	46.4	8.0	22	e.	16.8	7.5			1			0	0		
RUSSIAN.																			
Akmolinski	28.80	731.6	29.93	760.2	27.7	— 2.4	87	wsw.	11	5			10 n			0.004	0.1		Major K. Lasarew.
Archangel	29.84	758.0	29.86	758.5	42.6	5.9	66	se.	4	2			10			0	0	light clouds	Capt. Sseliwerstow.
Astrakhan	30.30	769.6	30.22	767.5	45.3	7.4	51	calm	0	0		0	0			0	0		Capt. Wisganow.
Barnaul	29.29	744.0	29.81	757.2	27.9	— 2.3	92	w.	9	4			10			0.063	1.6		Meteorological Obs'y.
Dorpat	29.53	750.0	29.78	756.3	44.4	6.9	88	s.	9	4			10 n			0.047	1.2	raining	Observatory.
Ekaterinburg	28.92	734.5	29.91	759.8	32.0	0.0	98	n.	11	5			10			0.016	0.4		Meteorological Obs'y.
Kasan	29.89	759.2	30.17	766.3	43.5	6.4	59	wsw.	2	1			10			0	0		Observatory.
Kertch	29.94	760.4	29.96	760.9	50.9	10.5	63	sse.	2	1		0	0			0	0		Lagorio & Sastyres.
Kieff	29.35	745.4	29.99	761.7	48.9	9.4	40	ese.	20	9		c;ck	9 ks			0	0		Observatory.
Lugan	29.91	759.8	30.12	765.0	52.7	11.5	33	ese.	22	10			1			0	0		Meteorological Obs'y
Moscow	29.62	752.4	30.11	764.7	49.8	9.9	41	s.	4	2		0	0			0	0		Meteorological Obs'y.
Nikolaiev	29.99	761.8	30.06	763.6	53.1	11.7	51	e.	4	2		0	0			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor	29.82	757.5	29.91	759.7	25.2	— 3.8	90	nw.	16	7			10			0.071	1.8	snowing	Lieut. Iwanow.
Pekin, China	29.82	757.4	29.96	761.0	49.6	9.8	21	se.	7	3		0	5 k			0.055	1.4		Physical Observatory
St. Petersburg	29.80	756.8	29.81	757.2	47.7	8.7	67	s.	16	7			10 kn			0	0	light clouds	Central Physical Obs
Tashkend, Laboratory	28 66	727.9	30.28	769.0	45.0	7.2	69	calm	0	0			4			0	0		Teich, A. M.
Tiflis	28.70	729.0	30.14	765.5	50.7	10.4	48	s.	4	2			10 ks			0	0		Physical Observatory
Vladivostok	29.93	760.3	30.00	762.0	32.0	0.0	50	n.	4	2		0	3 k			0	0		
Warsaw	29.47	748.5	29.90	759.4	46.6	8.1	59	wsw.	18	8			10 ks						Astronomical Obs'y
Wilna	29.43	747.5	29.85	758.3	46.4	8.0	71	s.	9	4			10			0.134	3.4	heavy clouds	Berg, Assistant.
Yeniseisk	29.49	749.1	29.80	756.8	24.4	— 4.2	66	n.	2	1			0			0	0		M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	30.03	762.8	30.13	765.4	58.6	14.8	45	sw.	4.7	2.1			0			0	0	clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.37	771 3	30.43	772.8	55.0	12.8	66	n.	2.7	1.2		2	6	nw.		0.051	1.3	cloudy	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.37	695.4	30.41	772.4	47.8	8.8	54	n.	6.5	2.9		0	8			0	0	cloudy	Domingo Martin.
Madrid, Royal Obs'y	28.01	711.4	30.24	768.2	59.9	15.5	32	ne.	13.0	5.8		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y	30.05	763.3	30.21	767.2	62.6	17.0	46	ene.	4.0	1.8		3	4	sw.		0	0	cloudy	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.45	758.9	30.34	770.6	63.0	17.2	39	calm	0	0			1			0	0	almost clear	R. Gil Vallanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I	30.03	762.7	30.09	764.4	73.3	22.9	87	ese.	4.0	1.8		5 c;cs	1 s	nw.		0	0	fair	Benito Vines, S. J.
Manilla, Philippine Islands	29.91	759.6	29.97	761.1	81.5	27.5	70	ese.	4.4	2.0		1 c	2 ck			0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.14	765.6	30.24	768.1	65.5	18.6	37	ne.	2.1	0.9		2	5	e.	e.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	30.11	764.7	30.20	767.0	75.6	24.2	70	se.	15.0	6.7		5 cs	2 k	se.	se.	0	0	d. clouds	Manuel Maeu.
Tuguegarao, Philippine Id's	29.88	758.9	30.01	762.2	74.9	23.8	88	nw.	6.8	3.0		4cs	5 ks		nw.	0.01	0.3	covered	José L. Yrastorza.
SWEDISH																			
Haparanda	29.59	751.5	29.63	752.5	33.8	1.0	89	s.			4		10			0	0		
Umea	29.54	750.4	29.60	751.7	33.4	0.8	100	sw.			2		10			0	0		
Hernosand	29.52	749.8	29.57	751.1	41.5	5.3	74	s.			2		8			0.004	0.1		
Stockholm	29.45	748.0	29.63	752.5	44.6	7.0	78	w.			2		10			0.157	4.0		
Wisby	29.60	751.7	29.65	753.2	39.9	4.4	93	w.			2		0			0.031	0.8		
Sub-series.																			
Upsala	29.50	749.4	29.59	751.6	41.0	5.0	76	ssw.	9.8	4.4			10		sw.	0	0		S. G. Fineman.
SWISS.																			
Geneva	28.82	732.0	30.26	768.7	48.0	8.9	41	nne.			6					0	0	clear	The Observatory

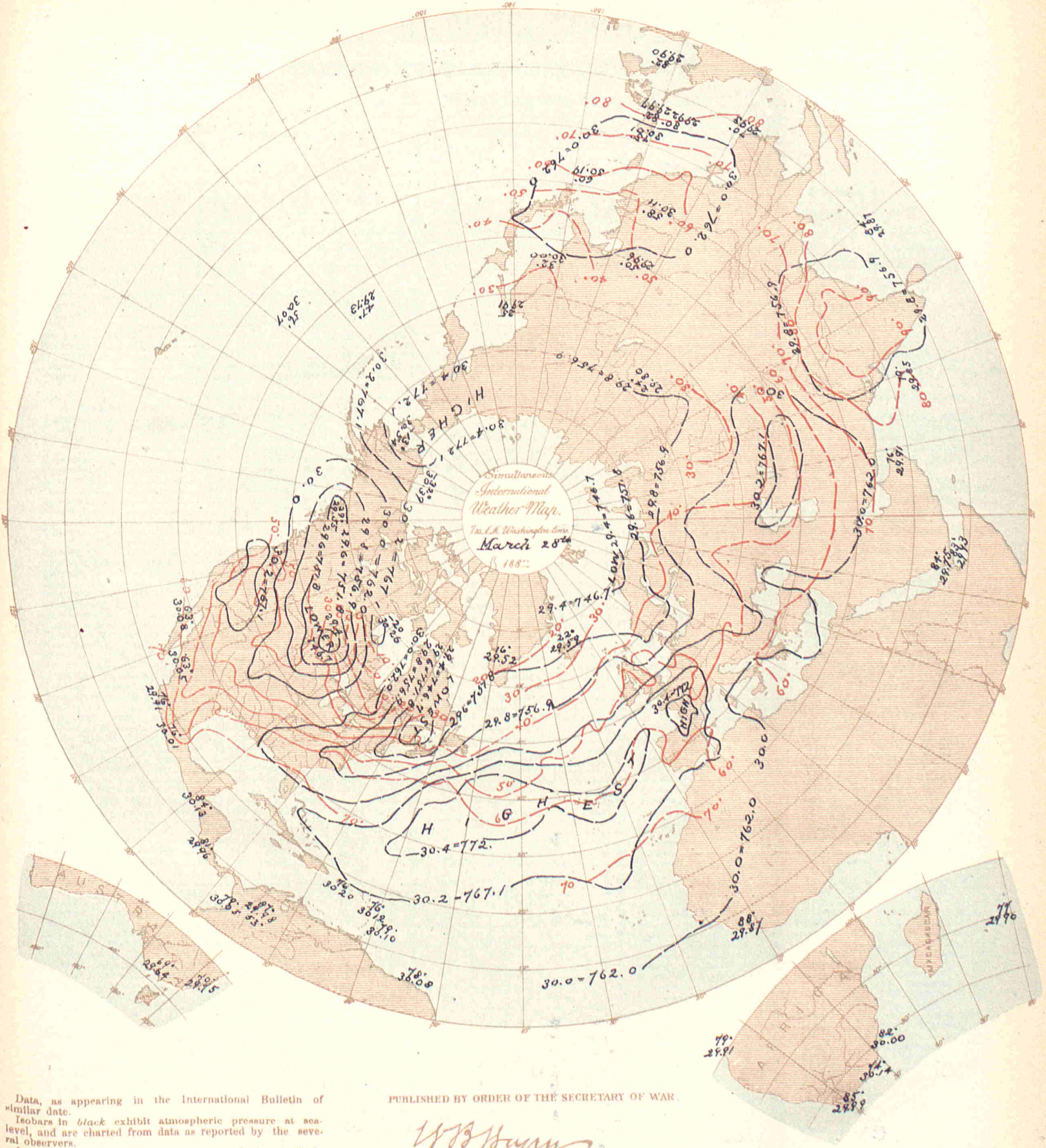
STATIONS.	BAROMETER. Corrected for instrumental error and for temperature.		BAROMETER. Reduced to sea-level.		Temperature of the air.		Relative humidity.	WIND. Direction.	WIND. Velocity.		WIND. Force.	CLOUDS. Amount and kind.		CLOUDS. Direction.		Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
TURKISH.																			
Constantinople	.....	.....	30.07	763.7	61.2	16.2	44	s.	6	2.5	.....	.....	2	.....	n.	0	0	.....	The Observatory.
Valona	.....	.....	30.01	762.3	62.8	17.1	.....	s.	.....	.....	1	.....	10	.....	.....	0	0	covered	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	29.97	761.3	64.9	18.3	77	nnw.	.....	.....	1	0	0	.....	.....	0	0	.....	Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	29.61	752.1	29.70	754.4	42	5.6	65	w.	14	6.3	.....	.....	10 8	.....	w.	0.12	3.0	cloudy	J. O. Barnes.
Alpena, Michigan	29.36	745.7	30.06	763.5	18	— 7.8	67	nw.	6	2.7	.....	2 c	2 k	nw.	nw.	0.23	5.8	fair	Jas. J. Fitzgerald.
Atlanta, Georgia	28.66	728.0	29.87	758.7	57.0	13.9	80	w.	5	2.2	.....	.....	10 8	.....	w.	0.58	14.7	cloudy	H. Hall.
Atlantic City, New Jersey	29.60	751.8	29.61	752.1	52.8	11.6	100	nw.	5	2.2	.....	.....	10 n	.....	nw.	1.07	27.2	light rain	Jas. M. Watson.
Augusta, Georgia	29.65	753.1	29.85	758.2	65.0	18.3	93	sw.	2	0.9	.....	.....	10 8	.....	sw.	3.71	94.2	cloudy	John Healy.
Baltimore, Maryland	29.70	754.4	29.75	755.6	48	8.9	77	n.	10	4.5	.....	.....	10 n	.....	w.	0.45	11.4	light rain	Robert Seyboth.
Barnegat, New Jersey	29.62	752.3	29.64	752.8	47.0	8.3	93	nw.	23	10.3	.....	.....	10 n	.....	n.	1.13	28.7	light rain	Chas. F. Merritt.
Bismarck, Dakota	27.54	699.5	29.46	748.3	44	6.7	68	w.	14	6.3	.....	1 cs	0	.....	.....	0.01	0.3	clear	Cyrus Cramer.
Boise City, Idaho	27.17	690.1	30.09	764.3	41	5.0	76	nw.	2	0.9	.....	0	4 8	.....	calm	0	0	fair	B. E. Light.
Boston, Massachusetts	29.36	745.7	29.52	749.8	48.0	8.9	71	w.	14	6.3	.....	.....	10 8	.....	.....	0.19	4.8	cloudy	O. B. Cole.
Brownsville, Texas	30.12	765.0	30.17	766.3	60	15.6	81	calm	0	0	.....	9 ck	0	.....	.....	0	0	cloudy	J. C. Galloway.
Buffalo, New York	29.14	740.1	29.93	760.2	28.5	— 1.9	79	nw.	13	5.8	.....	.....	10 p;ks	.....	nw.	0.13	3.3	light snow	Wm. Finn.
Burlington, Vermont	29.42	747.3	29.73	755.1	31.5	— 0.3	67	nw.	12	5.4	.....	2 cs	8 8	w.	nw.	0.01	0.3	cloudy	G. C. Schueffer.
Cairo, Illinois	29.66	753.4	30.08	764.0	41.8	5.4	84	nw.	8	3.6	.....	0	0	.....	.....	0.04	1.0	clear	W. H. Ray.
Campo, California	27.56	700.0	30.17	766.3	37.7	3.2	72	e.	4	1.8	.....	0	0	.....	.....	0	0	clear	W. H. Clendenon.
Camp Thomas, Arizona	27.36	694.9	30.14	765.5	39.5	4.2	94	calm	.....	.....	0	0	0	.....	.....	0	0	clear	J. T. Fitzgerald.
Cape Henry, Virginia	29.64	752.8	29.66	753.4	68	20.0	73	sw.	19	8.5	.....	.....	10 8	.....	sw.	0.55	14.0	cloudy	J. E. Lanouette.
Cape May, New Jersey	29.58	751.3	29.61	752.1	50	10.0	93	nw.	25	11.2	.....	.....	10 n	.....	nw.	1.15	29.2	light rain	W. Bolten.
Castroville, Texas	29.34	745.2	30.17	766.3	52	11.1	72	w.	2	0.9	.....	10 cs	0	w.	.....	0	0	cloudy	T. Jones.
Cedar Keys, Florida	29.97	761.2	29.99	761.7	71	21.7	84	s.	23	10.3	.....	0	8 8	.....	s.	0	0	cloudy	F. W. Mixer.
Champaign, Illinois	29.16	740.7	30.02	762.5	34.3	1.3	78	e.	8	3.6	.....	0	0	.....	.....	0.22	5.6	clear	L. A. Welsh.
Charleston, S. Carolina	29.78	756.4	29.84	757.9	65	18.3	93	sw.	16	7.2	.....	0	9 8	.....	sw.	2.45	62.2	cloudy	J. H. Smith.
Charlotte, N. Carolina	28.91	734.3	29.79	756.7	59.0	15.0	81	ne.	2	0.9	.....	.....	10 8	.....	w.	0.30	7.6	cloudy	D. O. Donoghue.
Chattanooga, Tennessee	29.07	738.4	29.92	760.0	49.5	9.7	82	nw.	9	4.0	.....	.....	10 ks	.....	nw.	0.34	8.6	cloudy	B. L. Goulding.
Cheyenne, Wyoming	23.80	604.5	29.98	761.5	41.5	5.3	31	nw.	38	17.0	.....	0	5 8	.....	nw.	0	0	fair	E. McGovern.
Chicago, Illinois	29.27	743.4	30.01	762.2	35.2	1.8	84	se.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. Mitchell.
Chincoteague, Virginia	29.58	751.3	29.60	751.8	51	10.6	100	s.	10	4.5	.....	.....	10 8	.....	w.	0.30	7.6	cloudy	F. C. Pratz.
Cincinnati, Ohio	29.34	745.2	30.03	762.7	37.5	3.1	71	nw.	11	4.9	.....	0	0	.....	.....	0.13	3.3	clear	R. B. Watkins.
Cleveland, Ohio	29.24	742.7	30.02	762.5	31.3	— 0.4	63	nw.	10	4.5	.....	.....	8 8	.....	n.	0.70	17.8	cloudy	J. B. Newlin.
Coleman City, Texas	28.26	717.8	30.11	764.8	42	5.6	82	sw.	6	2.7	.....	0	0	.....	.....	0	0	clear	L. Dorman.
Columbus, Ohio	29.10	739.1	29.99	761.7	37	2.8	51	nw.	6	2.7	.....	7 k	0.	nw.	.....	0.18	4.6	fair	D. Cuthbertson.
Concho, Texas	28.14	714.7	30.11	764.8	38	3.3	92	sw.	4	1.8	.....	0	0	.....	.....	0	0	clear	W. W. McConihe.
Davenport, Iowa	29.29	744.0	29.98	761.5	34	1.1	71	w.	3	1.3	.....	4 ck	0	w.	.....	0	0	fair	R. R. Martin.
Dayton, Washington T'y	28.18	715.8	29.99	761.7	46	7.8	74	sw.	12	5.4	.....	.....	10 8	.....	sw.	0	0	cloudy	H. Clifford.
Deadwood, Dakota	24.96	634.0	29.80	756.9	42.5	5.8	55	sw.	6	2.7	.....	0	7 k	.....	nw.	0	0	fair	G. W. Scott.
Decatur, Texas	.....	.....	.....	.....	53	11.7	61	s.	3	1.3	.....	0	0	.....	.....	0	0	clear	D. J. Carr.
Delaware Breakwater, Del	29.63	752.6	29.65	753.1	48	8.9	93	n.	20	8.9	.....	.....	ion;fg	.....	n.	0.42	10.7	light rain	A. Schneider.
Denison, Texas	29.26	743.2	30.10	764.5	41.5	5.3	92	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. McGlone.
Denver, Colorado	24.55	623.6	29.99	761.7	48.0	8.9	31	w.	20	8.9	.....	0	1 8	.....	w.	0	0	clear	F. M. Neal.
Des Moines, Iowa	28.97	735.8	29.93	760.2	35	1.7	69	sw.	4	1.8	.....	3 cs	0	w.	.....	0	0	clear	F. W. Conrad.
Detroit, Michigan	29.29	744.0	30.04	763.0	32.1	0.1	68	n.	7	3.1	.....	4 k	0	nw.	.....	0	0	fair	C. F. R. Wappenhans.
Dodge City, Kansas	27.20	692.4	29.98	761.5	35.5	1.9	65	s.	9	4.0	.....	0	0	.....	.....	0	0	clear	E. A. Thomas.
Dubuque, Iowa	29.20	741.7	29.95	760.7	29.5	— 1.4	77	nw.	1	0.4	.....	7 c	2 8	w.	calm	0	0	cloudy	J. Harvey Smith.
Duluth, Minnesota	28.96	735.6	29.70	754.4	30	— 1.1	77	ne.	6	2.7	.....	.....	10 8	.....	ne.	0	0	cloudy	N. B. Conger.
Eagle Pass, Texas	29.37	746.0	30.19	766.8	52.0	11.1	80	calm	0	0	.....	.....	10 8	.....	sw.	0	0	cloudy	F. Belford.
Eagle Rock, Idaho	25.21	640.3	30.08	764.0	34	1.1	74	sw.	24	10.7	.....	.....	10 ks	.....	sw.	0	0	cloudy	J. M. Clifford.
Eastport, Maine	29.34	745.2	29.41	747.0	40	4.4	94	sw.	11	4.9	.....	.....	10 n	.....	sw.	1.79	45.5	light rain	J. H. Melton.
El Paso, Texas	26.34	669.0	30.14	765.5	40	4.4	59	nw.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.18	741.2	29.95	760.7	33	0.6	60	nw.	16	7.2	.....	.....	10 k	.....	nw.	0.80	20.3	cloudy	R. H. Paxton.
Escanaba, Michigan	29.29	744.0	30.00	762.0	17	— 8.3	67	calm	0	0	.....	0	0	.....	.....	0.02	0.5	clear	C. Dill.
Florence, Arizona	28.58	725.9	30.15	765.8	43.7	6.5	50	ne.	2	0.9	.....	0	0	.....	.....	0	0	clear	R. R. Herman.
Fort Apache, Arizona	25.17	639.3	30.19	766.8	31	— 0.6	65	ne.	5	2.2	.....	0	0	.....	.....	0	0	clear	W. C. Barnes.
Fort Assinnaboine, Montana	26.55	674.4	29.56	750.8	42	5.6	52	sw.	24	10.7	.....	0	9 8	.....	sw.	0	0	cloudy	B. C. Lenoir.
Fort Bennett, Dakota	27.90	708.6	29.60	751.8	48	8.9	58	w.	10	4.5	.....	0	8 8	.....	w.	0	0	cloudy	T. Gibson.
Fort Benton, Montana	26.65	676.9	29.63	752.6	47	8.3	58	sw.	30	13.4	.....	.....	10 ks	.....	sw.	0	0	cloudy	S. Wheaton.
Fort Buford, Dakota	27.37	695.2	29.51	749.5	40	4.4	73	w.	16	7.2	.....	.....	10 8	.....	w.	0.02	0.5	cloudy	A. H. Bell.
Fort Custer, Montana	26.38	670.0	29.71	754.6	50	10.0	80	w.	8	3.6	.....	.....	10 8	.....	calm	0	0	cloudy	V. Verge.
Fort Davis, Texas	25.20	640.1	30.08	764.0	34	1.1	65	s.	1	0.4	.....	0	0	.....	.....	inap.	inap.	clear	J. Williams.
Fort Elliott, Texas	27.16	689.9	29.99	761.7	34	1.1	54	s.	4	1.8	.....	0	0	.....	.....	0.01	0.3	clear	W. J. Cundall.
Fort Gibson, Indian T'y	29.46	748.3	30.05	763 3	34.3	1.3	89	ne.	4	1.8	.....	0	0	.....	.....	0.30	7.6	clear	J. B. Campbell.
Fort Grant, Arizona	25.32	643.1	30.15	765.8	41	5.0	25	sw.	5	2.2	.....	0	0	.....	.....	0	0	clear	T. J. Macgowan.
Fort Griffin, Texas	28.79	731.3	30.14	765.5	40	4.4	82	calm	0	0	.....	0	0	.....	.....	0	0	clear	G. H. Hayne.
Fort Keogh, Montana	26.95	684.5	29.61	752.1	47	8.3	51	w.	11	4.9	.....	9 cs	0	w.	.....	0	0	cloudy	W. B. Stockman.
Fort Macon, North Carolina	29.77	756.1	29.78	756.4	62	16.7	100	sw.	24	10.7	.....	.....	10 8	.....	sw.	4.15	105.4	cloudy	L. Leonardy.
Fort McKavett, Texas	28.03	711.9	30.35	770.9	53	11.7	80	sw.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. E. Thatcher.
Fort Missoula, Montana	26.44	671.6	29.82	757.4	43	6.1	76	sw.	12	5.4	.....	0	5 n	.....	sw.	0.12	3.0	light rain	J. H. Jones.
Fort St. Michaels, Alaska	30.50	774.7	30.54	775.7	—13	—25.0	100	w.	4	1.8	.....	0	0	.....	.....	0	0	clear	A. P. Leavitt.
Fort Shaw, Montana	25.89	657.6	29.69	754.1	42	5.6	67	w.	15	6.7	.....	10 k	0	nw.	.....	0	0	cloudy	A. L. Mathews.
Fort Sill, Indian Territory	28.78	731.0	30.07	763.8	38.3	3.5	84	calm	0	0	.....	0	0	.....	.....	0.18	4.6	clear	T. Cleary.
Fort Stevenson, Dakota	27.42	696.5	29.40	746.7	36	2.2	82	nw.	9	4.0	.....	0	0	.....	.....	0.07	1.8	clear	W. Burrows.
Fort Verde, Arizona	.....	.....	.....	.....	38.9	3.8	57	w.	.....	.....	1	0	0	.....	.....	0	0	clear	D. Brooks.
Fort Washakie, Wyoming	24.18	614.2	.....	.....	32.7	0.4	62	n.	8	3.6	.....	0	3 k	.....	.....	0	0	clear	T. M. Ambler.
Fredericksburg, Texas	28.37	720.6	30.13	765.3	46	7.8	76	sw.	2	0.9	.....	0	0	.....	.....	0	0	clear	H. S. Miles.
Galveston, Texas	30.07	763.8	30.11	764.8	57.5	14.2	58	n.	11	4.9	.....	.....	10 8	.....	sw.	0.02	0.5	cloudy	E. O'C. MacInerney.
Grand Haven, Michigan	29.33	745.0	30.03	762.7	29.0	— 1.7	67	ne.	3	1.3	.....	0	0	.....	.....	0.08	2.0	clear	W. A. Reid.
Hatteras, North Carolina	29.72	754.9	29.74	755.4	62	16.7	100	sw.	36	16.1	.....	9 k	0	sw.	.....	2.94	74.7	cloudy	R. M. Crawford.
Helena, Montana	25.39	644.9	29.76	755.9	45	7.2	86	sw.	22	9.8	.....	.....	10 8	.....	sw.	0.01	0.3	cloudy	N. C. Smith.
Henrietta, Texas	29.07	738.4	30.11	764.8	39	3.9	82	s.	6	2.7	.....	0	0	.....	.....	0	0	clear	J. W. Byram.
Huron, Dakota	28.09	713.5	29.57	751.1	36.2	2.3	72	s.	8	3.6	.....	.....	8 8	.....	s.	0	0	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.19	741.4	30.03	762.7	34	1.1	79	n.	2	0.9	.....	0	fg.	.....	calm	0.07	1.8	clear	O. Schutze
Indianola, Texas	30.13	765.3	30.16	766.1	57.8	14.3	57	w.	9	4.0	.....	0	8 ks	.....	w.	0	0	cloudy	L. A. Reed.
Jacksboro, Texas	28.88	733.5	30.09	764 3	41	5.0	73	w.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. P. Sherry.
Jacksonville, Florida	29.90	759.4	29.95	760.7	72	22.2	82	s.	16	7.2	.....	2 cs	7 8	.....	sw.	0	0	cloudy	J. W. Smith.
Keokuk, Iowa	29.29	744.0	29.98	761.5	36.0	2.2	69	s.	3	1.3	.....	0	0	.....	.....	0	0	clear	F. Z. Gosewisch
Key West, Florida	30.08	764.0	30.10	764.5	76.0	24.4	85	s.	4	1.8	.....	6 cs	1 k	.....	s.	0	0	fair	L. M. Melbourne.
Kittyhawk, North Carolina	29.71	754.6	29.73	755.1	61.5	16.4	87	w.	16	7.2	.....	.....	10 8	.....	w.	0.64	16.3	cloudy	E. A. Beals.
Knoxville, Tennessee	28.86	733.0	29.92	760.0	46	7.8	83	n.	12	5.4	.....	.....	10 8	.....	n.	0.57	14.5	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.06	738.1	29.88	758.9	35	1.7	63	s.	12	5.4	.....	.....	10 8	.....	.....	0	0	cloudy	S. C. Emery.
La Mesilla, New Mexico	26.18	665.0	30.14	765.5	33.5	0.8	70	calm	0	0	.....	0	0	.....	.....	0	0	clear	N. D. Lane.
Leavenworth, Kansas	29.04	737.6	29.98	761.5	35	1.7	69	s.	5	2.2	.....	0	0	.....	.....	0	0	clear	A. W. Browne.
Lewiston, Idaho	29.03	737.3	29.89	759.2	56.2	13.4	59	w.	20	8.9	.....	.....	10 8	.....	w.	0	0	cloudy	W. Blake.
Little Rock, Arkansas	29.72	754.9	30.05	763.3	49	9.4	77	n.	5	2.2	.....	0	6 8	.....	calm	0.11	2.8	fair	M. F. Burrows.
Los Angeles, California	29.79	756.7	30.19	766.8	49.2	9.6	77	nw.	5	2.2	.....	0	0	.....	.....	0	0	clear	E. F. Kubel.
Louisville, Kentucky	29.41	747.0	30.00	762.0	39	3.9	65	n.	6	2.7	.....	2 c	3 8	n.	.....	0.42	10.7	fair	H. C. Smith.
Lynchburg, Virginia	29.00	736.6	29.72	754.9	58.5	14.7	70	w.	2	0.9	.....	.....	10 8	.....	w.	0.68	17.3	cloudy	T. H. Breen.
Madison, Wisconsin	28.90	734.0	29.97	761.2	32	0.0	78	se.	10	4.5	.....	0	0	.....	.....	0	0	clear	C. A. Shaw.
Marquette, Michigan	29.21	741.9	29.98	761.5	20	— 6.7	70	sw.	7	3.1	.....	0	1 8	.....	sw.	0.13	3.3	clear	I. Gilligan.
Mason, Texas	28.47	723.1	30.16	766.1	43	6.1	83	w.	5	2.2	.....	0	0	.....	.....	0	0	clear	A. M. Wilson.
Memphis, Tennessee	29.69	754.1	30.04	763.0	48	8.9	100	nw.	7	3.1	.....	.....	10 8	.....	.....	0.31	7.9	cloudy	D. T. Flannery.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–01	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers
UNITED STATES.—Cont'd.																			
Milwaukee, Wisconsin	29.22	742.2	30.01	762.2	34	1.1	78	se.	11	4.9		0	4 ks		se.	0	0	fair	W. Line.
Mobile, Alabama	29.87	758.7	29.91	759.7	67.0	19.4	73	w.	4	1.8			10 s		w.	0.03	c.8	cloudy	J. D. Paxton.
Montgomery, Alabama	29.63	752.6	29.87	758.7	65	18.3	93	w.	8	3.6			10 ks		w.	1.51	38.4	cloudy	J. B. McLaughlin.
Moorhead, Minnesota	28.36	720.3	29.44	747.8	25	— 3.9	88	s.	32	14.3			10 s		s.	0.05	1.3	cloudy	H. Bessant.
Morgantown, W. Virginia	28.91	734.3	29.97	761.2	38.5	3.6	77	n.	10	4.5			10 s		n.	0.66	16.8	cloudy	J. Sprigg, jr.
Mt. Washington, N. H.	23.08	586.2	29.60	751.8	17.0	— 8.3	96	nw.	65	29.0			fg.		nw.	1.41	35.8	dense fog	J. G. Linsley.
Nashville, Tennessee	29.43	747.5	29.99	761.7	44.0	6.7	68	n.	8	3.6			10 ks		nw.	0.56	14.2	cloudy	L. A. Jesunofsky.
New Haven, Connecticut	29.48	748.8	29.60	751.8	41	5.0	73	n.	16	7.2			10 n		sw.	0.96	24.4	light rain	J. H. Sherman.
New London, Connecticut	29.54	750.3	29.59	751.6	44	6.7	100	w.	9	4.0			10 n		w.	0.89	22.6	light rain	J. G. Lynch.
New Orleans, Louisiana	29.93	760.2	29.99	761.7	66.1	18.9	73	w.	8	3.6			10 s		w.	0.21	5.3	cloudy	A. J. Armstrong.
Newport, Rhode Island	29.50	749.3	29.55	750.6	43.0	6.1	100	sw.	6	2.7			10n;fg			0.55	14.0	heavy rain	W. McGillivray.
New River, N. Carolina	.....	.....	.....	.....	62	16.7	94	sw.	.....	.....	4		10 s		w.	3.53	89.7	cloudy	C. C. Corbin.
New Shoreham, Rhode I'd	29.51	749.5	29.54	750.3	45.2	7.3	100	w.	24	10.7			10 n		w.	0.95	24.1	light rain	W. Davis.
New York, New York	29.49	749.0	29.67	753.6	43	6.1	83	nw.	12	5.4			10 n		w.	0.24	6.1	light rain	E. B. Garriott.
Norfolk, Virginia	29.64	752.8	29.67	753.6	66	18.9	78	w.	16	7.2			10 ks		sw.	0.51	13.0	cloudy	J. T. Elker.
North Platte, Nebraska	26 77	679.9	29.83	757.7	42.6	5.9	65	nw.	8	3.6		0	2 s			0	0	clear	E. F. Brady.
Olympia, Washington T'y	30.04	763.0	30.08	764.0	45.0	7.2	88	s.	12	5.4			10 n		calm	0.13	3.3	light rain	J. Dascomb.
Omaha, Nebraska	28.61	726.7	29.86	758.4	39.3	4.1	57	s.	16	7.2			2 s		nw.	0	0	clear	A. Pollak.
Ooglaamie, Pt. Barrow, Alas.	30.37	771.4	30.39	771.9	—31.7	—35.4	76	nw.	10	4.5		hz.	0			0	0	clear	P. H. Ray.
Oswego, New York	29.46	748.3	29.80	756.9	33.0	0.6	70	nw.	16	7.2			10 s		nw.	0.22	5.6	cloudy	S. W. Beall.
Palestine, Texas	29.57	751.1	30.14	765.5	45.5	7.5	82	w.	3	1.3		0	0			0	0	clear	L. M. Pindell.
Pensacola, Florida	29.86	758.4	29.89	759.2	67.2	19.6	87	sw.	7	3.1			10 s		sw.	0.01	0.3	cloudy	M. McGauran.
Philadelphia, Pa	29.60	751.8	29.70	754.4	47	8.3	77	nw.	16	7.2			10 n		nw.	0.54	13.7	light rain	T. F. Townsend.
Pike's Peak, Colorado	17.53	445.3	30.12	765.0	8	—13.3	83	nw.	46	20.6		0	3 s		nw.	0	0	clear	L. M. Dey.
Pioche, Nevada	24.17	613.9	30.31	769.9	38	3.3	51	nw.	3	1.3		0	0			0	0	clear	C. K. Kitchel.
Pittsburg, Pennsylvania	29.08	738.6	29.93	760.2	38.0	3.3	73	nw.	13	5.8			10 s		nw.	0.11	2.8	cloudy	J. H. Bryce.
Port Eads, Louisiana	29.98	761.5	29.99	761.7	67.1	19.5	76	w.	16	7.2			10 s		w.	0.09	2.3	cloudy	H. G. Christian.
Port Huron, Michigan	29.30	744.2	30.02	762.5	25.3	— 3.7	86	nw.	17	7.6			10 n		nw.	0.02	0.5	light snow	W. O. Bailey.
Portland, Maine	29.38	746.2	29.43	747.5	47.0	8.3	93	w.	10	4.5			10 s		nw.	0.22	5.6	cloudy	D. C. Murphy.
Portland, Oregon	30.10	764.5	30.17	766.3	47.0	8.3	86	sw.	6	2.7		0	1 s			0.07	1.8	clear	M. L. Hearne.
Portsmouth, N. Carolina	.....	.....	.....	.....	64	17.8	93	sw.	34	15.2			10 ks		sw.	2.73	69.3	cloudy	F. P. Chaffee.
Prescott, Arizona	24.85	631.2	30.19	766.8	32	0.0	47	n.	3	1.3		0	0			0	0	clear	J. McN. Wright.
Provincetown, Mass	29.47	748.5	29.50	749.3	44	6.7	100	sw.	10	4.5			fg.			0.69	17.5	dense fog	P. T. Jenkins.
Punta Rassa, Florida	30.03	762.7	30.04	763.0	75	23.9	88	s.	18	8.0		3 c	1 ks	calm	s.	0	0	fair	W. J. Evans.
Red Bluff, California	29.79	756.7	30.17	766.3	55.0	12.8	62	n.	3	1.3		0	0			0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.98	761.5	30.22	767.6	62	16.7	56	e.	4	1.8			10 s		w.	0	0	cloudy	W. H. Taylor.
Rochester, New York	29.18	741.2	29.88	758.9	30	— 1.1	78	nw.	19	8.5		0	8 s		nw.	0.16	4.1	cloudy	A. T. Sherwood.
Roseburg, Oregon	29.71	754.6	30.27	768.8	55	12.8	80	sw.	4	1.8		0	9 ks		w.	0	0	cloudy	J. J. Nuary.
Sacramento, California	30.08	764.0	30.16	766.1	52.9	11.6	80	calm	0	0		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.44	747.8	30.07	763.8	37.0	2.8	89	nw.	2	0.9		0	0			inap.	inap.	clear	J. H. Webber.
St. Paul, Minnesota	28.80	731.5	29.72	754.9	33.0	0.6	71	se.	24	10.7			10 s		se.	0	0	cloudy	O. S. M. Cone.
St. Vincent, Minnesota	28.31	719.1	29.25	742.9	25	— 3.9	88	se.	25	11.2		0	5 k		w.	0.07	1.8	fair	G. Kingsbury.
Salt Lake City, Utah	25.70	652.8	30.22	767.6	41	5.0	59	calm	0	0		0	0			0	0	clear	J. Craig.
San Antonio, Texas	29.45	748.0	30.16	766.1	51.8	11.0	80	calm	0	0			7 s		nw.	0	0	cloudy	E. Lane.
San Diego, California	30.07	763.8	30.14	765.5	53.4	11.9	95	n.	2	0.9			fg.			0	0	dense fog	A. C. Dobbins.
Sandusky, Ohio	29.29	744.0	30.01	762.2	31.2	— 0.4	78	n.	23	10.3		0	5 s		n.	0.47	11.9	fair	M. H. Perry.
Sandy Hook, New Jersey	29.63	752.6	29.67	753.6	43.0	6.1	93	nw.	22	9.8			10 n		nw.	0.49	12.4	light rain	B. A. Blundon.
San Francisco, California	30.13	765.3	30.20	767.1	51	10.6	93	w.	6	2.7			fg.		w.	0	0	dense fog	N. Gorom.
Santa Fé, New Mexico	23.17	588.5	30.15	765.8	35	1.7	58	n.	19	8.5		0	0			0	0	clear	H. N. Jones.
Savannah, Georgia	29.77	756.1	29.86	758.4	67	19.4	87	sw.	8	3.6		0	8 n		sw.	1.14	29.0	light rain	H. M. Ford.
Shreveport, Louisiana	29.84	757.9	30.09	764.3	49	9.4	77	nw.	4	1.8		hz.	1 s			0.18	4.6	clear	E. N. Meekins.
Silver City, New Mexico	24.29	617.0	30.07	763.8	33	0.6	50	nw.	6	2.7		0	0			0	0	clear	J. B. Wallace.
Sitka, Alaska	29.48	748.8	29.55	750.6	29	— 1.7	88	calm	0	0		0	6 ks		nw.	0.34	8.6	fair	J. J. McLean.
Smithville, North Carolina	29.77	756.1	29.81	757.2	63	17.2	100	sw.	28	12.5			10 s		w.	4.09	103.9	cloudy	J. C. Rickli.
Spokane Falls, Wash. Ter.	27.75	704.8	29.88	758.9	44	6.7	68	sw.	18	8.0			10 s		sw.	0	0	cloudy	D. Moore.
Springfield, Illinois	29.31	744.5	30.03	762.7	36	2.2	69	s.	1	0.4		0	0			0.16	4.1	clear	T. B. Jennings.
Springfield, Massachusetts	29.48	748.8	29.62	752.3	40.3	4.6	65	nw.	17	7.6			10 s		nw	0.31	7.9	cloudy	T. S. Outram.
Springfield, Mo	28.57	725.7	30.13	765.3	33.5	0.8	78	se.	6	2.7		0	0			0.01	0.3	clear	J. B. Marbury.
Stockton, Texas	27.04	686.8	30.12	765.0	43.7	6.5	63	sw.	8	3.6		0	0			0	0	clear	J. O'Dowd.
Thatcher's Island, Mass	29.47	748.5	29.53	750.0	39.0	3.9	100	w.	10	4.5			10n;fg			0.49	12.4	light rain	G. Liebmann.
Toledo, Ohio	29.29	744.0	30.02	762.5	32.5	0.3	53	n.	8	3.6		5 k	0	n.		0.04	1.0	fair	A. Buell.
Tucson, Arizona	27.67	702.8	30.13	765.3	44	6.7	63	se.	3	1.3		0	0			0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.63	752.6	30.01	762.2	53.0	11.7	44	w.	40	17.9		10 cs	0	w.		0	0	cloudy	R. P. Sibley.
Uvalde, Texas	29.19	741.4	30.17	766.3	49	9.4	86	calm	0	0			10 s		w.	0	0	cloudy	E. C. Imlay.
Vicksburg, Mississippi	29.75	755.6	30.01	762.2	57	13.9	69	nw.	11	4.9			10 s		w.	0.18	4.6	cloudy	T. J. Kenan.
Visalia, California	29.78	756.4	30.16	766.1	55.4	13.0	58	se.	4	1.8		0	0			0	0	clear	J. T. Cochran.
Washington, D. C.	29.63	752.6	29.75	755.6	46	7.8	68	nw.	12	5.4			10 n		nw.	0.78	19.8	light rain	B. M. Pursell.
West Las Animas, Colorado	25.89	657.6	29.97	761.2	28	— 2.2	76	calm	0	0		0	0			0	0	clear	J. Grover.
Wickenburg, Arizona	.....	.....	.....	.....	42.5	5.8	81	calm	.....	.....	0	0	0			0	0	clear	H. A. Kremp.
Williamsport, Pa	29.18	741.2	29.82	757.4	40	4.4	52	nw.	13	5.8			10 ks		nw.	0.22	5.6	cloudy	B. F. Hough.
Wilmington, N. Carolina	29.76	755.9	29.82	757.4	66	18.9	93	w.	21	9.4			10 s		sw.	5.26	133.6	cloudy	S. A. Haney.
Winnemucca, Nevada	25.73	653.5	30.23	767.8	34	1.1	81	sw.	6	2.7		0	0			0	0	clear	J. R. Williams.
Yankton, Dakota	28.26	717.8	29.65	753.1	41	5.0	73	w.	30	13.4			10 s			0	0	cloudy	J. H. Atfield.
Yuma, Arizona	29.91	759.7	30.06	763.5	51.8	11.0	61	n.	2	0.9		0	0			0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.07	560.6	.....	.....	53.0	11.7	88	calm	0	0			9ks;s			0.22	5.6	cloudy	Joaquin Gomez.
Bridgetown, Barbados, W. I.	30.09	764.3	30.10	764.5	79	26.1	86	e.	.....	.....	.....	2 k	5 ks	n.	ne.	0.04	1.0	cloudy	J. A. Racker.
Buenaventura, U. S. C.	30.03	762.7	30.05	763.3	77	25.0	90	s.	4	1.8			10 ks		s.	0	0	threatening	J. I. Plume.
Guadeloupe, W. I.	30.00	762.0	30.02	762.5	76	24.4	83	e.	.....	.....	.....	4 k	3 ks			0	0		B. Bigar.
Havana, Cuba, W. I.	30.09	764.3	30.14	765.5	78	25.6	82	se.	1.2	0.5	.....	8 cs	0	calm		0	0	cloudy	A. Van Caneghem.
Kingston, Jamaica, W. I.	30.12	765.0	30.13	765.3	73.6	23.1	76	ese.	1	0.4	.....	0	1 s		e.	0	0	fine	Robert Johnston.
Navassa	30.18	766.6	30.26	768.6	76.5	24.7	72	e.	12	5.4	.....	5 ck	2 s	se.	e.	0	0		F. M. Everett.
Paramaribo, S. A.	30.04	763.0	30.04	763.0	78	25.6	86	e.	.....	.....	2	5 ck	3 s	e.		0	0	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.53	750.0	29.98	761.5	87	30.6	75	calm	.....	.....	0	.....	9 ks		calm	0	0	.....	Miss Flora A. Nichols.
Rivas	.....	.....	.....	.....	.....	.....	98	ne.	.....	.....	2	0	2 k		ne.	0	0	clear	Robert Mason.
Santiago de Cuba, W. I.	30.10	764.5	30.13	765.3	76	24.4	76	calm	0	0	.....	0	0			0	0	clear	
York Factory, B. A.	30.20	767.1	30.26	768.6	—20.0	—28.9	.....	ne.	14	6.3	.....	2 c	1 s	e	ne.	0.01	0.3	fair	W. Wood.

STATIONS AND VESSELS.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.			Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Amount and kind.		Direction.						
								Force.	Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
BRITISH NAVAL.																		
H. M. S. Agincourt, N. 39° 11′, E. 9° 06′	29.97	761.2	52	11.1	83	nnw.			1		9	wnw.						d. clouds.
H. M. S. Alert, S. 5° 39′ E. 53° 30′	29.87	758.7	82.5	28.1	85	s			2		9							showery.
H. M. S. Alexandra, Naples, Italy	29.91	759.7	58	14.4	69	nne.			1		10							overcast.
H. M. S. Bacchante, Jaffa Roads, Egypt	30.03	762.7	63	17.2	78	ssw.			3		2	ssw.				2	w.	d. clouds.
H. M. S. Boadicea, S. 34° 11′, E. 18° 26′	29.98	761.5	74.5	23.6	61	sw.			1		4	sw.						d. clouds.
H. M. S. Comus, N 5° 26′ E. 121° 50′	29.90	759.4	82	27.8	95	calm			0		3					3	ne.	d. clouds.
H. M. S. Daring, N. 14° 30′ E. 120° 00′	29.92	760.0	80	26.7		nnw.			3		3	sw.				1	n.	d. clouds.
H. M. S. Diamond, S. 35° 20′, E. 116° 00′	30.22	767.6	64	17.8	83	sse.			2		4					1	sse.	d. clouds.
H. M. S. Dido, N. 17° 00′, W. 61° 45′	30.18	766.6	78	25.6		e.			1–2		2	ne.						d. clouds.
H. M. S. Druid, N. 18° 11′, W. 76° 27′	30.14	765.5	77.5	25.3	89	s.			1		2	s.				1	se.	d. clouds.
H. M. S. Eclipse, S 15° 43′, E. 46° 20′	29.95	760.7	79	26.1		e.			1–2		2							d clouds.
H. M. S. Espiegle, S. 33° 48′, E. 111° 16′	30.20	767.1	63	17.2	88	se.			2		3					2	ese.	d. clouds.
H. M. S. Euryalus, Aden, Arabia	29.93	760.2	83	28.3	70	se.			2		0							blue sky.
H. M. S. Fawn, N. 15° 04′ E. 42° 14′	29.75	755.6	83.5	28.6	75	ssw.			1		0						ssw.	blue sky.
H. M. S. Flying Fish, N. 34° 41′, E. 135° 12′	29.97	761.2	49	9.4	92	w.			1		4	w.						d. clouds.
H. M. S. Gannet, S. 33° 01′, W. 71° 37′	30.02	762.5	61	16.1	85	calm			0		10	n.						overcast.
H. M. S. Garnet, Montevideo, Uruguay	30.15	765.8	56	13.3	93	nnw.			3		0							blue sky.
H. M. S. Griffon, N. 20° 30′ W. 73° 40′	30.15	765.8	77	25.0	86	ene.			4		3	ene.				5	ene.	d. clouds.
H. M. S. Inconstant, S. 24° 00′, E. 65° 30′	30.04	763.0	78	25.6	90	ene.			1–2		2	ne.				2	nne.	d. clouds.
H. M. S. Iron Duke, N. 22° 16′ E. 114° 10′	30.10	764.5	59	15.0	87	ne.			1–2		4	ne.						d. clouds.
H. M. S. Lark, S. 19° 26′, E. 162° 48′	29.91	759.7	80.3	26.8		e.			3		9					3	e.	d. clouds.
H. M. S. Liffey, Coquimbo, Chili	30.01	762.2	61	16.1		ne.			1		10							overcast.
H. M. S. Magpie, N. 28° 27′, E. 129° 04′	30.19	766.8	59.7	15.4	63	nw.			2		10					2	nw.	d. clouds.
H. M. S. Malabar, N. 18° 19′, E. 70° 15′	29.85	758.2	79	26.1	90	n.			3		1	n.				1	n.	blue sky.
H. M. S. Orontes, Near Port Said, Egypt	29.91	759.7	70.5	21.4	72	nw.			2		2							d. clouds.
H. M. S. Rambler, St. Paul de Loando, Benguela	29.94	760.5	79	26.1		nw.			2		10	calm						d. clouds.
H. M. S. Ready, Muscat, Arabia	29.91	759.7	76.1	24.5		calm			0		4							d. clouds.
H. M. S. Rocket, Vancouver Id., B. C.	29.92	760.0	45	7.2	92	wsw.			5		10							raining.
H. M. S. Sea Gull, S. 4° 42′, E. 55° 27′	29.27	743.4	84	28.9	91	n.			0–2									
H. M. S. Serapis, N. 33° 32′ E. 23° 50	30.04	763.0	61	16.1	88	sse.			2		2	wsw.				1	wsw.	d. clouds.
H. M. S. Tamar, N. 36° 40′ W. 0° 35′	30.23	767.8	55.5	13.1	73	nnw.			3		2	nnw.				2	nnw.	d. clouds.
H. M. S. Thalia, S. 34° 00′, W. 14° 37′	30.12	765.0	70	21.1		n.			6		10					6	n.	overcast.
H. M. S. Triumph, Valparaiso, Chili	30.02	762.5	60	15.6	82	calm			c		9	calm						d. clouds.
H. M. S. Tyne, N. 10° 13′, E. 109° 44′	29.93	760.2	78	25.6	95	nnw.			5–6		6	nnw.				4	nnw.	d. clouds.
H. M. S. Woodlark, Bombay, India	29.80	756.9	82.5	28.1	56	nnw.			3–5		0							misty.
PORTUGUESE NAVAL.																		
Quanza, St. Vicent, Cape Verd Islands	30.10	764.5	74.3	23.5	71	ne.			4		3					3	ne.	d. clouds.
Rio Lima, Porto Praya, Cape Verd Islands	30.13	765.3	73.0	22.8	93	ne.			2		2		ne.			2		d. clouds.
Tamega, Macao, China	30.19	766.8	62.4	16.9	75	ne.			2		8		sw.	3 h'r	3 h'r	1		
SWEDISH NAVAL.																		
Balder, N. 32° 51′ W. 78° 17′	29.80	757.0	62.6	17.0	100	sw.			5		9							raining.
UNITED STATES NAVAL.																		
Navy Yard, Pensacola, Fla	29.88	758.9	68	20.0	84	sw.	6	2.7			10			0.01	0.3			cloudy.
N. Yard, Portsmouth, N. H.	29.52	749.8	49	9.4	85	nw.	12	5.4			8		nw.	0.3	8.			cloudy.
Naval Hospital, Yokohama, Japan	29.80	756.9	48	8.9	74	calm			0		2		w.	0	0			clear.
Adams, N. 7° 41′, W. 80° 20′	29.79	756.7	69	20.6	95	ese.			1		2					sm'h		clear.
Alaska, Mollendo, Peru	29.94	760.5	69	20.6	70	calm			0		5			0	0	long		fair.
Alert, N. 22° 19′, E. 114° 45′*	29.98	761.5	63	17.2	83	ene.			3		8		e.			mod	e.	cloudy.
Alliance, N 10° 48′ W. 78° 54′	29.99	761.7	77	25.0	86	ne.			3		2			sli't	sli't	sm'h		fair.
Ashuelot, Nagasaki, Japan	30.21	767.3	49	9.4	71	wnw.			2		5?		calm					cloudy.?
Brooklyn, Montevideo, Uruguay	30.14	765.5	59	15.0	76	nw.	5	2.2			0			0	0	light	w.	clear.
Colorado, New York, N. Y.	29.57	751.1	43	6.1	75	nw.	20	8.9			10			0.01	0.3			misty.
Enterprise, Samana Bay, Cuba*	30.19	766.8	77	25.0	77	e.			5–6		5					rg'h		fai.
Essex, Monrovia Liberia, Africa	29.97	761.2	82	27.8	79	nw.			1		2					sm'h	w.	fair.
Franklin, Norfolk, Va	29.68	753.9	67	19.4	100	wsw.	20.4	9.1			10			0.38	9.7			cloudy.
Galena, Palermo, Sicily	29.93	760.2	57	13.9	87	n.			3		10		n.			sm'h		cloudy.
Independence, Mare Island, Cal.	30.04	763.0	52	11.1	100	sw.			1		10		sw.	0	0			hazy.
Kearsarge, Kingston, Jamaica, W. I.	30.12	765.0	77	25.0	73	ese.			2		2		s;e			sm'h		fair.
Lackawana, S. 13° 35′ W. 77° 12′†	30.09	764.3	71	21.7	95	se.			3		2		sw.			sm'h	se.	clear.
Lancaster, N. 36° 36′ E. 21° 20′*	29.96	761.0	63	17.2	94	se.			1–2		10		calm	0	0	sm'h		cloudy.
Marion, S. 33° 54′, E. 18° 24′*	29.99	761.7	68	20.0	100	w.			1		5			h'vy	h'vy	sm'h		hazy.
Michigan, Erie, Pa	29.90	759.4	34	1.1	90	n.			2		10		se.					cloudy.
Minnesota, Newport, R. I.	29.54	750.3	43	6.1	92	sw.	3	1.3			10							raining.
Monocacy, Kobe, Japan	30.10	764.5	47	8.3	77	nw.			1		5		calm					fair.
New Hampshire, Newport, R. I.	29.50	749.3	44	6.7	100	ssw.			3		10					sm'h		raining.
Nipsic, N. 40° 53′ E. 1° 46	30.19	766.8	60	15.6	44	w.			2		2					br'kn	ene.	squally.
Onward, Callao, Peru†	30.11	764.8	62	16.7	100	calm			0		10		n.			long	w.	cloudy.
Palos, Kobe, Japan	30.09	764.3	47	8.3	70	wnw.			2		5							fair.
Passaic, Washington, D. C.	29.75	755.6	46	7.8	100	nw.			3		8		w.					cloudy.
Pensacola, Callao, Peru	30.01	762.2	67	19.4	79	calm	0	0			10			0	0	sm'h		cloudy.
Portsmouth, Norfolk, Va	29.61	752.1	65	18.3	94	sw.			3		10		sw.					clearing
Powhatan, Port of Spain, Trinidad, W. I.	30.09	764.3	77	25.0	86	calm			0		2							clear.
Quinnebaug, N. 40° 48′ E. 14° 42′	29.89	759.2	60	15.6	76	n.			1		8		nne.			long	w.	cloudy.
Ranger, N. 18° 04′ W. 102° 50′*	29.91	759.7	76	24.4	82	nw.			1		2		calm	0	0	long	ssw.	fair.
Richmond, Kobe, Japan*	30.01	762.2	50	10.0	65	nw.			3		5		n.	0	0			fair.
Shenandoah, Curacoa, W. I*	30.16	766.1	78	25.6	78	ene.			4		5		ene.			mod.	ne.	fair.
St. Louis, League Island, Pa	29.88	758.9	46	7.8	84	n.	15	6.7			10			1.7	43.			raining.
Swatara, Kobe, Japan*	29.93	760.2	50	10.0	65	nw.			2		5		w.			sm'h		fair.
Tennessee, New Orleans, La	29.92	760.0	66	18.9	94	w.	7	3.1			10		w.	0	0			hazy.
Vandalia, Port Royal, S. C.†	30.08	764.0	67	19.4	95	sw.			2		10		calm					cloudy.
Wabash, Boston, Mass.	29.49	749.0	51	10.6	72	w.	6	2.7			8		sw.	0.22	5.6			hazy.
Wachusetts, Sitka, Alaska	29.46	748.3	28	− 2.2		sw.			1		8		calm			sm'h		overcast.
Wyoming, Port Royal, S. C.	29.84	757.9	64	17.8	94	sw.	12	5.4			10		wsw.	1.08	27.4			cloudy.
Yantic, N. 22° 31′, W. 95° 14′*	29.97	761.2	75	23.9	77	n.			4–6		8		n.			mod.	ne.	squally.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Nova Scotian, N. 47° 24′ W. 34° 32′	29.88	758.9	43	6.1	.....	wsw.	.....	.....	6	.....	5	.....	w.	.....	.....	con.	wsw.	squally.
S. S. Peruvian, Portland, Me*	29.39	746.5	54	12.2	.....	wnw.	.....	.....	4	.....	4	.....	w.	8 h'r	8 h'r	.....	.....	clear.
S. S. Prussian, Glasgow, Scotland*	29.71	754.6	44	6.7	.....	w.	.....	.....	5	.....	7	.....	nw.	5 h'r	5 h'r	.....	.....	fair.
S. S. Scandinavian, N. 44° ′,12 W. 62° 46′*	29.54	750.3	40	4.4	.....	ssw.	.....	.....	7	.....	10	.....	ssw.	16 h'r	16 h'r	high	ssw.	drizzling
S. S. Waldensian, N. 51° 11′, W. 23° 00′*	30.05	763.3	52	11.1	.....	wnw.	.....	.....	7	.. ..	10	.....	var.	0	0	con	.....	squally.
AMERICAN STEAMSHIP COMPANY.																		
S. S. British Crown, Mersey River, Eng†	30.26	768.6	54	12.2	.....	sw.	.....	.....	3	.....	10	.....	.....	1 h'r	1 h'r	.....	.....	overcast..
S. S. Illinois, N. 45° 10′, W 36° 43′	30.18	766.6	46	7.8	92	nw.	.....	.....	6	.....	8	.....	nw.	.....	.....	r'gh	nw.	fair.
S. S. Indiana, Liverpool, Eng...†	30.23	767.8	50	10.0	72	w.	.....	.....	1	.....	5?	.....	w.	light	light	.....	.....	clear.?
S. S. Ohio, Philadelphia, Penn	.....	.....	48	8.9	92	wnw	.....	.....	6	.....	1?	.....	w.	.....	.....	.....	.....	raining.
S. S. Pennsylvania, N. 39° 04′, W. 63° 09′†	29.99	761.7	62	16.7	83	e.	.....	.....	6	.....	10	.....	sw.	.....	.....	hv'y	.....	d. clouds.
ANCHOR LINE.																		
S. S. Assyria, N. 41° 18′, W. 34° 37′*†	30.52	775 2	56	13.3	.....	wnw.	.....	.....	6	.....	5	.....	wnw.	o	o	h'vy	wnw.	fine.
S. S. Devonia, N. 49° 00′, W. 37° 00′†	29.89	759.2	51	10.6	.....	wnw.	.....	.....	6	.....	8	.....	wnw.	.....	.....	h'vy	w.	cloudy.
S. S. Galatia, N. 42° 56′, W. 47° 49′†	30.49	774.4	.....	.....	.....	ssw.	.....	.....	3	.....	10	.....	nw.	o	o	sm'h	sw.	overcast.
S. S. Utopia, N. 36° 22′, W. 68° 18′*†	30.10	764.5	66	18.9	94	s.	.....	.....	6	.....	1	.....	s.	4 h'r	4 h'r	con.	s.	clear.
ATLAS LINE.																		
S. S. Ailsa, Colon, U. S, C.†	30.18	766.6	78	25.6	90	ne.	.....	.....	2	.....	0	.....	.....	o	o	.....	.....	fine.
S. S. Arden, Ponce, Porto Rico, W. I.	.....	.....	.....	.....	.....	ese.	.....	.....	2	.....	5	.....	se.	...	.....	mod.	se.	fine.
S. S. Athos, N. 17° 28′, W. 71° 40′	29.83	757.7	.....	.....	.....	e.	.....	.....	4	.....	5	.....	e.	2 h'r	2 h'r	r'gh	e.	fine.
BOSTON AND HALIFAX LINE.																		
S. S. Carroll, Halifax, N. S†	30.28	769.1	33	0.6	70	n.	.....	.....	.....	.....	.....	.....	.....	rain	rain	.....	.....	clear.
BRITISH METEOROLOGICAL OFFICE.																		
S. Auckland, N. 42° 44′, W. 25° 56′	30.31	769.9	57	13.9	.....	wsw.	.....	.....	4	.....	10	.....	.....	.....	.....	.....	.....	raining.
S. Baroda, S. 14° 41′, E. 81° 58′	29.89	759.2	77.8	25.4	91	e.	.....	.....	2	.....	9	.....	.....	.....	.....	.....	.....	heavy rain.
British Merchant, N. 9° 23′, E. 89° 39′	29.87	758.7	84	28.9	83	s.	.....	.....	2	.....	1	.....	.....	.....	.....	.....	.....	blue sky.
Caldew, N. 36° 16′, W. 35° 00′	30.37	771.4	63.5	17.5	.....	nne.	.....	.....	5	.....	10	.....	.....	.....	.....	.....	.....	raining.
S. S. Cipero, N. 46° 53′, W. 11° 47′	30.41	772.4	59.8	15.4	60	wsw.	.....	.....	3	.....	10	.....	.....	.....	.....	2	nw.	overcast.
Bk. Commewyne, N. 37° 39′, W. 45° 41′	30.53	775.4	55.1	12.8	49	n.	.....	.....	3	.....	4	.....	.....	.....	.....	.....	.....	d. clouds.
Brig Hermine, S. 0° 56′, W. 27° 41′	30.00	762.0	83	28.3	79	ssw.	.....	.....	1	.....	6	.....	.....	.....	.....	.....	.....	d. clouds.
Hope, Aracaju, Brazil, S. A.	30.02	762.5	83.4	28.6	75	ene.	.....	.....	2	.....	3	.....	.....	.....	.....	.....	.....	d. clouds.
S. Lochee, N. 58° 08′, W. 8° 05′	29.91	759.7	50	10.0	96	wsw.	.....	.....	3	.....	10	.....	.....	.....	.....	.....	.....	drizzling.
BRISTOL CITY LINE.																		
S. S. Brooklyn City, N. 48° 38′, W. 22° 03′*†	30.15	765.8	60	15.6	.....	w.	.....	.....	5	.....	10	.....	w.	.....	.....	mod.	w.	drizzling.
CROMWELL LINE.																		
S. S. New Orleans, N. 33° 00′, W. 78° 45*†	29.95	760.7	60	15.6	.....	ssw.	.....	.....	6	.....	10	.....	sw.	.....	.....	hv'y	s.	stormy.
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. Canada, N. 40° 40′, W. 65° 14′	29.84	757.8	57.2	14.0	.....	ssw.	.....	.....	6	.....	10	.....	ssw.	2 h'r	2 h'r	.....	sw.	
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Bohemia, N. 40° 46′, W. 56° 30′*†	30.25	768.3	.....	.....	.....	ssw.	.....	.....	6	.....	1	.....	ssw.	o	o	mod.	sw.	fine.
S. S. Lessing, N. 49° 13′, W. 18° 10′.*	30.10	764.5	56	13.3	.....	sw.	.....	.....	5	.....	8	.....	sw.	o	o	long	wsw.	cloudy.
S. S. Silesia, Hamburg, Germany*†	30.02	762.5	51.8	11.0	.....	w.	.....	.....	6	.....	5	.....	w.	6 h'r	6 h'r	.. ..	.....	raining.
JOHNSTON LINE.																		
S. S. Thanemore, N. 35° 58′, W. 69° 27′	29.64	752.8	. .....	.....	.....	ssw.	.....	.....	6	.....	10	.....	ssw	mist	mist	.....	ssw.	
LEYLAND LINE.																		
S. S. Iberian, N. 48° 05′, W. 35° 12′	.....	.....	.....	.....	.....	wnw.	.....	.....	7	.....	5	.....	wnw.	2 h'r	2 h'r	high	wnw	
MALLORY LINE.																		
S. S. Colorado, N. 37° 05′, W. 74° 09′ †	29.60	751.8	45	7.2	.....	sw.	.....	.....	4	.....	10	.....	sw.	10 h'r	10 h'r	high	sse.	cloudy.
MERCHANTS' EXPRESS LINE.																		
S. S. Freja, N. 49° 35′, W. 9° 59′†	30.31	769.9	56	13.3	94	sw.	.....	.....	5	.....	8	.....	sw.	3 h'r	3 h'r	mod.	sw.	squally.
S. S. Hermod, Havre, France*†	29.30	744.2	53.6	12.0	.....	wsw.	.....	.....	1	.....	1	.....	sw.	2 h'r	2 h'r	.....	.....	cloudy.
NATIONAL LINE.																		
S. S. England, N. 41° 15′, W. 54° 42′*†	30.30	769.6	.....	.....	.....	sw.	.....	.....	5	.....	2	.....	sw.	o	o	light	sw.	cloudy.
S. S. Erin, N. 40° 53′, W. 56° 32′	30.26	768.6	60	15.6	.....	sw.	.....	.....	6	.....	6	.....	sw.	3 h'r	3 h'r	short	sw.	hazy.
S. S. Italy, N. 51° 22′, W. 18° 30′	30.00	762.0	.....	.....	.....	s.	.....	.....	6	.....	8	.....	ssw	6 h'r	6 h'r	long	ssw.	misty.
NEW YORK, HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, Havana, Cuba, W. I.*†	30.20	767.1	77	25.0	.....	calm	.....	.....	o	.....	4	.....	ese.	o	o	sm'h	.....	clear.
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Alvena, Kingston, Jamaica, W. I*†	29.94	760.5	74	23.3	.....	s.	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	
S. S. Atlas, N. 11° 40′, W. 80° 22′*†	30.14	765.5	79	26.1	.....	ne.	.....	.....	1	.....	.....	.....	.....	.....	.....	sm'h	.....	clear.
S. S. Bothnia, N. 41° 39′, W. 63° 04′	29.48	748.8	51	10.6	.....	ssw.	.....	.....	6	.....	.....	.....	.....	.....	.....	h'vy	s.	heavy rain.
S. S. Lepanto, N. 49° 30′, W. 8° 00′*	30.16	766.1	50	10.0	.....	w.	.....	.....	6	.....	.....	.....	.....	.....	.....	.....	wsw.	cloudy.
S. S. Olbers, S. 16° 08′, W. 38° 20′*†	30.06	763.5	79.5	26.4	....	s.	.....	.....	3	.....	.....	.....	.....	.....	.....	.....	s.	squally.
NORTH GERMAN LLOYD.																		
S. S. Hermann, N. 49° 44′, W. 8° 16′*†	30.36	771.1	55.4	13.0	.....	ssw.	.....	.....	5	.....	4	.....	sw.	o	o	light	nnw.	fair.
S. S. Hohenzollern, S. 31° 14′, W. 49° 27′*	30.16	766.1	81.5	27.5	.....	wsw.	.....	.....	2	.....	1	.....	sw.	o	o	2	sw.	clear.
S. S Koln, N. 46° 24′, W. 35° 07′*	30.24	768.1	53.0	11.7	93	w.	.....	.....	7	.....	8	.....	w.	1 h'r	1 h'r	.....	sw.	squally.
S. S. Kronprinz F. Wilhelm, N. 39° 48′, W. 61° 48′	30.04	763.0	59.9	15.5	.....	s.	.....	.....	7	.....	10	.....	ssw.	2 h'r	2 h'r	8	s.	cloudy.
S. S. Leipzig, N. 41° 32′, W. 55° 50′	30.29	769.4	60.0	15.6	97	ssw.	.....	.....	5	.....	8?	.....	sw.	4 h'r	4 h'r	cross	ssw.	clear.?
S. S. Main, Southampton, Eng*	30.23	767.8	50.0	10.0	.....	wnw.	.....	.....	2-3	.....	6	.....	wnw.	o	o	.....	.....	cloudy.
S. S Mosel, N. 42° 11′, W. 55° 23′	30.30	769.6	45.5	7.5	.....	sse.	.....	.....	5	.....	8	.....	wsw.	2 h'r	2 h'r	light	ssw.	cloudy.
S. S. Neckar, N. 44° 03′ W 41° 59′	30.38	771.6	44.6	7.0	.....	w.	.....	.....	5	.....	6	.....	w.	o	o	high	w.	
S. S. Nurnburg, N. 28° 10′, W. 16° 23′*	30.06	763.5	77.0	25.0	52	ne.	.....	.....	5	.....	10	.....	ne.	o	o	5	ne.	cloudy.
S. S. Oder, N. 50° 00′, W. 4° 25′	30.32	770.1	64.6	18.1	.....	w.	.....	.....	2	.....	6	.....	w.	o	o	sm'h	.....	cloudy.
S. S. Ohio, N. 41° 32′, W. 19° 07′	30.44	773.2	.....	.....	.....	ssw.	.....	.....	4	.....	2	.....	se.	o	o	mod.	nw	clear.
S. S. Salier, N. 47° 12′, W. 35° 49′	30.08	764.0	44.6	7.0	.....	w.	.....	.....	8	.....	8	.....	w.	snow	snow	h'vy	wsw.	fair.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Belgic, N. 43° 06′. E. 175° 57′†	29.73	755.1	47	8.3	69	se.	.....	.....	5	.....	8	.....	nw.	rain	rain	mod.	con.	raining.
S. S. Gaelic, Hong Kong, China. †	30.04	763.0	60	15.6	82	se.	.....	.....	1	.....	3	.....	se.	.....	.....	.....	.....	clear.
S. S. Oceanic, N. 35° 22′, W. 172° 09′*	30.07	763.8	56	13.3	81	wnw.	.....	.....	6	.....	3	.....	w.	.....	.....	5	w.	fine.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, New York, N. Y†	29.78	756.4	.....	.....	.....	nnw.	.....	.....	2	.....	10	.....	wsw.	rain	rain	.....	.....	rainy.
S. S. Seminole, N. 32° 50′, W. 79° 35′†	29.87	758.7	68	20.0	79	sw.	.....	.....	.....	.....	8	.....	wnw.	20 h'r	20 h'r	r'gh	se.	squally.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. City of Chester, N. 45° 47′, W. 124° 18′*†	30.26	768.6	48	8.9	70	wnw.	.....	.....	3	.....	10	.....	nw.	.....	.....	high	nw.	hazy.
S. S. Oregon, San Francisco, Cal.†	30.19	766.8	50	10.0	93	calm	.....	.....	o	.....	10	.....	.....	.....	.....	.....	.....	hazy.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, N. 33° 00′, W. 117° 40′†	30.13	765.3	55	12.8	93	calm	.....	.....	o	.....	10	.....	sw.	.....	.....	sm'h	w.	foggy.
S. S. Geo. W. Elder, Seattle, Wash. Ter †	30.03	762.7	45	7.2	.....	nw.	.....	.....	3	.....	3	.....	nw.	o	o	.....	.....	clear.
S. S. Idaho, San Francisco, Cal†	30.18	766.6	51	10.6	93	w.	.....	.....	2	.....	10	.....	nw.	.....	.....	.....	.....	foggy.
S. S. State of California, Portland, Oregon†	30.16	766.1	47	8.3	85	sse.	.....	.....	2	.....	4	.....	nw.	o	o	.....	.....	fair.
S. S. Victoria, N. 46° 18′, W. 125° 00′†	30.06	763.5	44	6.7	92	w	.....	.....	5	.....	8	.....	.....	.....	.....	mod.	w.	hazy.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, Sydney, N. S. W	29.75	755.6	70	21.1	90	nw.	.....	.....	1	.....	8	.....	nw.	o	o	.....	.....	cloudy.
S. S. City of New York, S. 13° 20′, W. 170° —′†	29.92	760.0	80	26.7	100	sw.	.....	.....	2	.....	8	.....	.....	o	o	sm'h	.....	hazy.
S. S. City of Pekin, N. 9° 07′, W. 84° 28′†	29.96	761.0	81	27.2	87	ne.	.....	.....	2	.....	5	.....	ne.	o	o	sm'h	.....	fair.
S. S. City of Rio de Janeiro, N. 27° 50′, W. 115° 30′†	30.28	769.1	63	17.2	72	nw.	.....	.....	4	.....	o	.....	.....	o	o	long	nw.	clear.
S. S. City of Sydney, S. 35° 22′, E. 176° 01′†	30.06	763.5	67	19.4	79	e.	.....	.....	3	.....	8	.....	ne.	o	o	mod.	se.	cloudy.
S. S. Clyde, N. 16° 55′, W. 99° 48′†	30.01	762.2	76	24.4	91	var.	.....	.....	1	.....	2	.....	ene.	o	o	light	ssw.	clear.
S. S. South Carolina, La Libertad, San Salvador.†	30.13	765.3	84	28.9	61	calm	.....	.....	o	.....	o	.....	.....	o	o	sm'h	.....	smoky.
QUEBEC STEAM SHIP COMPANY.																		
S. S. Muriel, N. 36° 20′, W. 72° 15′	.....	.....	.....	.....	.....	sw.	.....	.....	6	.....	10	.....	.....	6 h'r	6 h'r	r'gh	ssw.	threatening.
RED STAR LINE.																		
S. S. Rhynland, N. 40° 22′, W. 54° 57′	30.38	771.6	62	16.7	72	sw.	.....	.....	6	.....	10	.....	ssw.	o	o	mod.	sw.	cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch	Mill.			
RED STAR LINE—Continued.																		
S. S. Switzerland, N. 42° 39′ W. 42° 44′†	30.46	773.7	.....	.....	.....	wnw.	.....	.....	2	.....	8	.....	wnw.	2½h'r	2½h'r	long	w.	cloudy.
S. S. Waesland, N. 49° 26′, W. 12° 51′	30.25	768.3	52	11.1	.....	sw.	.....	.....	4	.....	5	.....	wsw.	3 h'r	3 h'r	mod.	wnw.	misty.
ROTTERDAM LINE.																		
S. S. Schiedam, N. 50° 20′, W. 3° 00′*	30.13	765.3	54.7	12.6	98	wsw.	.....	.....	6	.....	8	.....	w.	o	o	sm'h	w.	cloudy.
S. S.W A Scholten, N. 47° 31′, W 34° 14′*	29.92	760.0	55.5	13.1	80	wnw.	.....	.....	8	.....	5	.....	nw.	2 h'r	2 h'r	high	w.	stormy.
THINGVALLA LINE.																		
S. S. Thingvalla, Copenhagen, Denmark†	29.85	758.2	46.4	8.0	.....	wnw.	.....	.....	2	.....	3	.....	wnw.	5 h'r	5 h'r	.....	.....	clear.
WARREN LINE.																		
S. S. Iowa, N. 49° 55′ W. 21° 04′*†	30.14	765.5	47	8.3	.....	wsw.	.....	.....	4	.....	10	.....	wsw.	1 h'r	1 h'r	mod.	sw.	hazy.
WHITE STAR LINE.																		
S. S. Adriatic, N. 41° 48′ W. 46° 36′*†	30.54	775.7	46	7.8	.....	wsw.	.....	.....	4	.....	2	.....	w.	hail	hail	mod.	wsw.	d. clouds.
S. S. Celtic, N. 41° 27′, W. 53° 17′†	30.41	772.4	53	11.7	93	s.	.....	.....	3	.....	8	.....	sw.	o	o	mod	sw.	cloudy.
WILSON LINE.																		
S. S. Otranto, N. 41° 26′, W. 54° 26′†	30.42	772.7	58	14.4	.....	ssw.	.....	.....	4	.....	8	.....	sw.	o	o	cross	n.	fair.
S. S. Romano, Hull, Eng.*†	29.97	761.2	57	13.9	.....	w.	.....	.....	2	.....	10	.....	.....	o	o	.....	.....	overcast.
S. S. Salerno, N. 48° 29 W. 21° 48′†	30.08	764.0	53	11.7	.....	wsw.	.....	.....	4	.....	10	.....	w.	.....	.....	long	wsw.	drizzling
WINSOR LINE.																		
S S. Catherine Whiting, Philadelphia, Pa.†	29.82	757.4	.....	.....	.....	nne.	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	heavy rain.
MISCELLANEOUS.																		
Sch. Addie Fuller, Cedar Keys, Florida†	30.07	763.8	71	21.7	95	ssw.	.....	.....	4	.....	10 d	.....	sw.	o	o	.....	.....	cloudy.
Bk. Adelaide, Rio de Janeiro, Brazil*†	30.15	765 8	83	28.3	.....	se.	.....	.....	.....	.....	.....	.....	sse.	o	o	.....	.....	cloudy.
Bk. Aureola, N. 35° 49′, W. 59° 13′*†	30.70	779.8	67	19.4	.....	sse	.....	.....	5	.....	9	.....	s.	o	o	mod.	ne.	threatening.
Bk. Bergenseren, N. 35° 26′, W. 24° 25′†	30.43	772.9	.....	.....	.....	e.	.....	.....	1	.....	.....	.....	e.	o	o	1	e.	fair.
Bk. Celestina, S. 0° 16′, W. 28° 59′*†	29.91	759.7	.....	.....	.....	nnw.	.....	.....	3	.....	3	.....	n.	o	o	sm'h	ese.	
S. S. Compton, Cardenas, Cuba, W. I†	30.16	766.1	.....	.....	.....	calm	.....	.....	0	.....	1	.....	calm	o	o	.....	.....	hazy.
Bk. E. L. Pettengill, S. 7° 58′ W. 109° 00′†	30.00	762.0	.....	.....	.....	ese.	.....	.....	3	.....	5	.....	e.	o	o	sm'h	.....	
S. Enoch Train, Off Brighton, Eng*	30.18	766.6	.....	.....	.....	w.	.....	.....	4	.....	10	.....	w.	o	o	.....	.....	hazy.
S. Exporter, N 37° 30′, W. 60° 02′*†	30.40	772.1	.....	.....	.....	s.	.....	.....	6	.....	8	.....	s.	o	o	cross	sw.	cloudy.
Ship Festina Lente, N. 61° 13′, W. 2° 49′*	29.70	754.4	38	3.3	.....	nnw.	.....	.....	6	.....	2	.....	nnw.	1 h'r	1 h'r	h'vy	w.	clear
U. S. F. C. S. FishHawk, Washington, D. C.†	29.87	758.7	49	9.4	100	nw.	.....	.....	3	.....	10	.....	nw.	0.85	21.6	.....	.....	drizzling.
Bk. Freya, Baltimore, Md.	.....	.....	44	6.7	.....	n.	.....	.....	3	.....	10	.....	ne.	8 h'r	8 h'r	.....	.....	fair.
S. Grecian, S. 12° 12′, W. 33° 13′*†	30.05	763.3	81	27.2	.....	ese.	.....	.....	4	.....	6	.....	ese.	o	o	sm'h	.....	fine.
Bk. Geo. Booth, Cape Good Hope, Africa*†	29.85	758.2	.....	.....	.....	w.	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	rainy.
Bk. Granville, S. 33° 48′, W. 15° 48′*†	30.30	769.6	.....	.....	.....	nne.	.....	.....	4	.....	.....	.....	nne.	rain	rain	cross	nne.	overcast.
S. Hedwig, N. 59° 47′, W. 2° 43′	29.73	755.1	43.9	6.6	74	wnw.	.....	.....	6	.....	7	.....	wnw	4 h'r	4 h'r	5	w.	squally.
Schr. Henry Denison, N. 16° 29′, W. 73° 59′†	30.10	764.5	.....	.....	.....	ese.	.....	.....	3	.....	3	.....	ene.	o	o	mod.	ene.	fair.
Bk. Johanne Auguste, S 2° 06′, E. 89° 12′*	29.74	755 4	.....	.....	.....	ne.	.....	.....	1	.....	2	.....	nne.	3 h'r	3 h'r	cross	se.	fair.
Bg. John Wesley, N. 23° 12′, W. 79° 40′†	30.05	763.3	80	26.7	.....	e.	.....	.....	2	.....	10	.....	.....	o	o	sm'h	.....	cloudy.
Bk. Josephine, N. 9° 38′, W. 79° 56′*†	30.11	764.8	81	27.2	76	ene.	.....	.....	5	.....	2	.....	ene.	o	o	mod.	ene.	fair.
Bkt. Kryolith, Off Oporto, Portugal*†	30.36	771.1	.....	.....	.....	ene.	.....	.....	2	.....	o	.....	.....	o	o	mod.	nw.	clear.
Bk. Liberia, N. 35° 30′, W. 56° 23′*	30.37	771.4	.....	.....	.....	sse.	.....	.....	3	.....	7	.....	.....	.....	.....	.....	.....	fine.
Schr. Maggie Abbot, N. 38° —′, W. 74° —′*†	29.50	749.3	.....	.....	.....	nw.	.....	.....	3	.....	.....	.....	sse.	rain	rain	hv'y	sse.	
S. S. Nebo, N. 10° 31′ W. 45° 10′*†	29.92	760.0	.....	.....	.....	ene.	.....	.....	3	.....	1	.....	ene.	o	o	mod.	ene.	clear.
Bk. Peppina, N. 36° 30′, W. 7° 14′†	30.17	766.3	59	15.0	59	ne.	.....	.....	6	.....	o	.....	.....	.....	.....	r'gh	ne.	clear.
Bk. Pilgrim, S. 44° 35′, E. 123° 50′*†	29.80	756.9	.....	.....	.....	wsw.	.....	.....	4	.....	5	.....	wsw.	rain	rain	long	sw.	fair.
Bg. Potomac, N. 26° 52′, W. 62° 58′ *†	30.30	769.6	.....	.....	.....	ese.	.....	.....	3	.....	.....	.....	ese.	.....	.....	mod.	ne.	fine.
Bkt. Spotless, N. 26° 01′ W. 40° 11′*†	30.00	762.0	.....	.....	.....	ene.	.....	.....	.....	.....	.....	.....	se.	.....	.....	mod	ese.	clear.
Bk. Stella, S. 56° 45′, W. 65° 01′*	28.64	727.4	42.6	5.9	94	sw.	.....	.....	7	.....	6	.....	.....	o	o	.....	.....	squally.
Bg. Wanburn, S. 8° 03′, W. 30° 03′*†	30.00	762.0	.....	.....	.....	ese.	.....	.....	6	.....	4	.....	e.	.....	.....	sm'h	.....	
S. Wm. Woodbury, N. 58° 37′, E. 2° 24′*†	29.45	748.0	48	8.9	85	w.	.....	.....	5	.....	.....	.....	nw.	.....	.....	h'vy	w.	squally.



Data, as appearing in the International Bulletin of similiar date.

Isobars in *black* exhibit atmospheric pressure at sea-level, and are charted from data as reported by the several observers.

Isotherms in *red* exhibit temperature of air, similarly charted.

Broken or dotted lines indicate that the lines so broken are doubtful.

Arrows, when charted, fly with the wind and exhibit wind-direction and force.

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W. B. Hazen

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

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INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON MARCH 29, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours	.....	.....	30.12	765.1	62.2	16.8	81	ne.	.....	.....	3	.....	0	.....	.....	0	0	clear	Moiroud.
Algiers	.....	.....	30.05	763.2	56.5	13.6	73	n.	.....	.....	1	.....	10	.....	.....	0.646	16.4	covered	Nicolas.
La Calle	.....	.....	29.89	759.1	52.5	11.4	86	nw.	.....	.....	4	.....	7	.....	.....	1.181	30.0	very cloudy	Fonfrède.
Tunis	.....	.....	29.78	756.5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.08	764.1	43.9	* 6.6	80	n.	.....	.....	2	.....	3	.....	.....	0.020	0.5	pretty fair	Dumas.
Tebessa	.....	.....	29.90	759.5	46.8	8.2	100	n.	.....	.....	3	.....	5	.....	.....	0.433	11.0	cloudy	Derché.
Geriville	.....	.....	.....	.....	40.3	4.7	71	n.	.....	.....	5	.....	8	.....	.....	inap.	inap.	very cloudy	Lonchamp.
Laghouat	.....	.....	30.06	763.6	50.0	10.0	74	w.	.....	.....	2	.....	1	.....	.....	0	0	very fair	Herbin.
Biskra	.....	.....	29.92	760.0	66.2	19.0	26	nw.	.....	.....	6	.....	3	.....	.....	0	0	pretty fair	Malau.
Australian.																			
Melbourne, Victoria	29.82	757.4	29.91	759.7	59.1	15.1	76	w.	6	2.7	.....	.....	3	.....	.....	0.05	1.3	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.55	750.6	30.10	764.5	56.7	13.7	51	se.	.....	.....	3	.....	2	.....	.....	0	0	.....	Prof. Ivan Stozir
Cracow, I. R Observatory	29.16	740.7	29.93	760.3	49.6	9.8	64	w.	15.4	6.9	.....	.....	10	.....	.....	0.012	0.3	.....	Dr. Wierzbiski.
Eperies	29.07	738.3	29.95	760.8	49.1	9.5	62	calm	.....	.....	0	.....	10 s	.....	.....	0	0	.....	Julius Mikolik.
Gratz	28.83	732.2	30.08	764.0	53.6	12.0	51	se.	.....	.....	1	.....	0	.....	.....	0	0	.....	Andreas Rospini.
Hermannstadt	28.54	724.9	29.97	761.3	54.0	12.2	45	nw.	.....	.....	2	.....	6	.....	.....	0	0	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.75	730.3	30.11	764.8	48.9	9.4	52	wnw.	.....	.....	2	.....	6	.....	.....	0	0	fair	The Staff.
Lemberg	28.92	734.5	29.92	759.9	45.7	7.6	68	w.	.....	.....	2	.....	10	.....	.....	0.189	4.8	.....	Dr. T. Stanecki.
Pola	29.92	760.0	30.03	762.8	58.3	14.6	40	ene.	.....	.....	4	.....	0	.....	.....	0	0	.....	I. R. Hydrographic Office.
Szathmar	29.52	749.9	29.98	761.6	51.6	10.9	44	nw.	.....	.....	2	.....	9	.....	.....	0	0	.....	Joseph Midlinszky, S. J.
Szegedin	29.74	755.3	30.02	762.5	53.6	12.0	61	n.	.....	.....	1	.....	5	.....	.....	0	0	.....	Karl Stancel.
Trieste	30.00	762.0	30.10	764.6	59.0	15.0	32	ne.	.....	.....	2	.....	0	.....	.....	0	0	.....	Rieder.
Vienna	29.34	745.3	30.06	763.6	53.6	12.0	37	w.	.....	.....	2	.....	9	.....	.....	0.012	0.3	.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.36	745.7	29.46	748.3	55.4	13.0	50	sw.	23	10.3	.....	.....	4	.....	.....	0.050	1.3	blue sky	W. Boswell.
Armagh, Observatory	29.39	746.5	29.64	752.8	51.5	10.8	64	wsw.	26	11.6	.....	.....	7	.....	.....	.....	.....	squally	S. Call.
Bidston, Liverpool Obs'y	.....	.....	29.78	756.4	49.6	9.8	89	wsw.	22	9.8	.....	.....	9	.....	.....	.....	.....	overcast	John Hartnup.
Bolton, Sharples	29.23	742.4	29.76	755.9	48.0	8.9	94	wsw.	42	18.8	.....	.....	10	.....	.....	.....	.....	raining	Thomas Mackereth. [A.S.
Bradford, Yorkshire	29.30	744.2	29.70	754.4	52.5	11.4	84	sw.	.....	.....	2	.....	10	.....	.....	0.01	0.3	overcast	J. McLandsborough, F. R
Bridgetown, Barbadoes	30.04	763.0	30.06	763.5	68.0	20.0	95	ne.	.....	.....	3	.....	8	.....	.....	.....	.....	raining	Pvt. J. Surgenor, A. H.C.
Cardington	.....	.....	29.89	759.2	56.6	13.7	77	sw.	.....	.....	2.0	.....	8	.....	.....	.....	.....	overcast	John McLaren.
Chatham, School M. E.	29.86	758.4	29.99	761.7	55.7	13.2	77	sw.	.....	.....	1	.....	10	.....	.....	.....	.....	overcast	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	29.81	757.2	30.04	763.0	51.8	11.0	94	sw.	.....	.....	4	.....	10	.....	.....	.....	.....	rain & fog	The Staff.
Fort Napier, Natal	27.73	704.3	29.95	760.7	83.0	28.3	46	e.	.....	.....	1	.....	0	.....	.....	.....	.....	blue sky	Pvt. E. K. Annis, [A. H.C.
Free Town, Sierra Leone	29.64	752.8	29.87	758.7	89.0	31.7	66	w.	.....	.....	1	.....	5	.....	.....	.....	.....	blue sky	Sergt. John Robinson.
Galway, Queen's College	.....	.....	29.68	753.9	.....	.....	.....	wsw.	.....	.....	6	.....	8	.....	.....	.....	.....	d. clouds	J. O'Donaghue.
Gibraltar, Mediterranean	30.15	765.8	30.20	767.1	66.6	19.2	73	e.	.....	.....	4	.....	0	.....	.....	.....	.....	blue sky	Cpl. O. Baldwin.
Glasgow, Observatory	29.34	745.2	29.54	750.3	53.1	11.7	76	ssw.	.....	.....	5	.....	5	.....	.....	.....	.....	misty	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.79	756.7	29.96	761.0	55.8	13.2	77	sw.	.....	.....	4	.....	10	.....	.....	.....	.....	showery	The Staff.
Guernsey	29.83	757.7	30.13	765.3	50.5	10.3	90	w.	.....	.....	2	.....	9	.....	.....	.....	.....	d. clouds	A. Collenette, F. M. S.
Kew, Observatory	29.94	760.5	29.97	761.2	54.9	12.7	65	wsw.	23	10.3	.....	.....	10	.....	.....	.....	.....	threatening	The Staff.
Leicester, Museum	29.58	751.3	29.83	757.7	56.0	13.3	70	sw.	.....	.....	7	.....	9	.....	.....	.....	.....	overcast	J. C. Smith.
Malta, Mediterranean	29.53	750.0	29.60	751.8	59.0	15.0	90	e.	.....	.....	4	.....	8	.....	.....	blank	blank	overcast	I. H. Whysall.
Nassau, Bahamas	30.19	766.8	30.24	768.1	80.0	26.7	74	sw.	.....	.....	2	.....	5	.....	.....	.....	.....	d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.33	745.0	29.85	758.2	54.5	12.5	76	sw.	.....	.....	3	.....	10	.....	.....	.....	.....	overcast	John Mac Email.
Oxford, Radcliffe Obs'y	29.71	754.6	29.94	760.5	52.2	11.2	86	sw.	.....	.....	6	.....	10	.....	.....	.....	.....	drizzling	The Staff.
Plymouth	29.96	761.0	30.03	762.7	51.5	10.8	95	sw.	.....	.....	4	.....	10	.....	.....	.....	.....	drizzling	John Merrifield.
Sandwick Manse, Orkneys	.....	.....	29.44	747.8	46.1	7.8	85	ssw.	11	4.9	.....	.....	10	.....	.....	.....	.....	misty	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.83	757.7	29.90	759.4	51.6	10.9	75	nne.	.....	.....	3	.....	10	.....	.....	.....	.....	misty	W. H. Lyne.
Sheffield	29.45	748.0	29.72	754.9	58.2	14.6	79	sw.	.....	.....	5	.....	7	.....	.....	0	0	overcast	W. F. Cooper.
Silloth Rectory	29.62	752.3	29.65	753.1	51.7	10.9	76	ssw.	.....	.....	5	.....	5	.....	.....	0.120	3.0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	29.77	756.1	48.8	9.3	94	w.	22	9.8	.....	.....	10	.....	.....	.....	.....	raining	R. S. J. Perry.
Stratfield Turgiss	29.78	756.4	29.99	761.7	55.4	13.0	80	w.	.....	.....	3	.....	10	.....	.....	.....	.....	squally	Rev. C. H. Griffiths, F.M.S.
Truro, Royal Institution	29.98	761.5	30.02	762.5	54	12.2	87	w.	.....	.....	5	.....	10	.....	.....	.....	.....	raining	W. Newcombe.
Valencia, Observatory	29.85	758.2	29.87	758.7	51.8	11.0	59	wsw.	33	14.8	.....	.....	4	.....	.....	.....	.....	misty	The Met'g'l Office.
Canadian.																			
Bathurst, N. B	.....	.....	.....	.....	21.0	— 6.1	.....	nw.	1	0.4	.....	0	0	.....	.....	0	0	clear	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.21	767.3	30.25	768.3	20	— 6.7	75	n.	8	3.6	.....	0	0	.....	.....	0.170	4.3	clear	H. J. Cundall, C. E.
Chatham, N. B*	30.25	768.3	30.32	770.1	15	— 9.4	83	n.	5	2.2	.....	0	0	.....	.....	0.04	1.0	clear	G. A. Blair.
Cornwall, Ontario	29.89	759.2	30.10	764.5	23.7	— 4.6	70	nw.	.....	.....	1	1 cs	0	.....	.....	0	0	clear	James Smith, M. A.
Dalhousie, N. B	30.09	764.3	30.27	768.8	12.0	—11.1	.....	w.	.....	.....	1	0	0	.....	.....	0	0	clear	H. A. Johnson.
Father Point, Quebec*	30.26	768.6	30.29	769.4	15	— 9.4	91	calm	0	0	.....	5 cs	2 s	.....	.....	0	0	fair	J. McWilliams.
Fort Garry, Manitoba*	28.92	734.6	29.80	756.9	14	—10.0	100	nw.	16	7.2	.....	.....	1c n	.....	.....	0	0	cloudy	James Stewart.
Fredericton, N. B	30.28	769.1	30.35	770.9	19.0	— 7.2	71	s.	1	0.4	.....	0	0	.....	.....	0	0	clear	Prof. Harrison.
Granton, Ontario	28.78	731.0	29.93	760.2	31.0	— 0.6	100	se.	.....	.....	2	0	0	.....	.....	0	0	clear	James Grant.
Halifax, N. S*	30.10	764.5	30.24	768.1	25	— 3.9	73	n.	6	2.7	.....	0	0	.....	.....	0.474	12.0	clear	A. Allison.
Hamilton, Ontario	29.52	749.8	29.93	760.2	33.7	— 0.9	90	e.	.....	.....	1	0	0	.....	.....	0	0	clear	Geo. Dickson, B. A.
Kingston, Ontario*	29.73	755.1	30.08	764.0	29	— 1.7	80	se.	11	4.9	.....	0	2 k	.....	s.	0	0	clear	A. P. Knight, M. A.
Little Glace Bay, N. S	30.19	766.8	30.23	767.8	23.5	— 4.7	93	n.	.....	.....	4	2 k	0	n.	.....	1.12	28.4	fair	C. H. Rigby.
Montreal, Quebec*	29.94	760.5	30.16	766.1	22	— 5.6	73	e.	5	2.2	.....	5 c	sk	w.	.....	0	0	fair	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.14	740.1	29.86	758.4	29	— 1.7	.....	se.	20	8.9	.....	2 k	2 k	sw.	sw.	0	0	fair	Rev. R. Mosley.
Peterboro, Ontario	29.26	743.2	30.04	763.0	31.7	— 0.2	89	se.	.....	.....	2	0	3 s	.....	.....	0	0	fair	J. Dixon, B. A.
Port Dover, Ontario	29.28	743.7	29.99	761.7	35	1.7	80	s.	8	3.6	.....	0	0	.....	n.	0	0	clear	H. Morgan.
Port Stanley, Ontario	29.27	743.4	29.94	760.5	35	1.7	79	se.	16	7.2	.....	hz.	0	.....	.....	0	0	hazy	M. Payne.
Quebec, Quebec*	29.93	760.2	30.28	769.1	15	— 9.4	83	ne.	.....	.....	3	0	2 s	.....	.....	0	0	fair	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.49	749.0	29.97	761.2	21	— 6.1	73	e.	6	2.7	.....	5 cs	0	sw.	.....	0	0	fair	W. H. McIntyre.
Saugeen, Ontario*	29.04	737.6	29.77	756.1	35	1.7	72	s.	22	9.8	.....	5 cs	0	.....	.....	0	0	fair	
St. Andrews, N. B	30.22	767.6	30.28	769.1	22	— 5.6	87	n.	4	1.8	.....	0	0	.....	.....	0.09	2.3	clear	
St. John, N. B	30.12	765.0	30.29	769.4	22.0	— 5.6	93	n.	8	3.6	.....	0	0	.....	.....	0.240	6.1	clear	G. Murdock, C. E.
St. Pierre, N. F	.....	.....	29.92	760.0	14.0	—10.0	.....	nw.	.....	.....	6	.....	.....	.....	.....	0	0	.....	N. F. Land, Com't.
Stratford, Ontario	28.58	725.9	29.91	759.7	32.0	0.0	85	sw.	10	4.5	.....	2 cs	0	.....	.....	0	0	clear	C. I. Macgregor, M. A.
Sydney, C. B*	30.13	765.3	30.19	766.8	20	— 6.7	70	nw.	10	4.5	.....	0	0	.....	.....	0.81	20.6	clear	T. C. Hill, C. E.
Toronto, Ontario*	29.61	752.1	30.01	762.2	32	0.0	74	s.	8	3.6	.....	5 cs	0	.....	.....	0	0	fair	Magnetic Observatory.
Windsor, N. S	30.15	765.8	30.24	768.1	25.0	— 3.9	94	n.	10	4.5	.....	0	0	.....	.....	0	0	clear	Prof. W. R. Butler.
Woodstock, Ontario	28.84	732.5	29.94	760.5	33.3	0.7	82	se.	14	6.3	.....	0	4 s	.....	.....	0	0	fair	Prof. Wolverton.
Yarmouth, N. S*	30.16	766.1	30.23	767.8	27	— 2.8	77	e.	3	1.3	.....	0	0	.....	.....	0.20	5.1	clear	Lt. F. E. Wilmot, R. N.
Sub-series.																			
St. Johns, Newfoundland	29.71	754.6	29.97	761.2	33	0.6	100	w.	4	1.8	.....	.....	10	.....	.....	0.40	10.2	fair	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	29.92	760.0	29.95	760.7	68.0	20.0	88	sw.	12.0	5.4	.....	0	8 ks	.....	.....	0	0	hazy	John Duthie.
Cape Town, C. G. H. Obs'y	29.95	760.7	29.99	761.7	68.2	20.1	100	s.	9	4.0	.....	10	10	.....	.....	0	0	.....	The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
CHINESE (*Sub-series*).																			
Hankow	29.88	758.9	30.16	766.1	63.8	17.7	70	e.			3		10						N. Titoushkin.
Zi-Ka-Wei, near Shanghai	30.07	763.8	30.10	764.4	51.8	11.0	86	se.	5.6	2.5		6 c	0			0	0	very cloudy.	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	29.68	753.9	29.73	755.1	44.8	7.1	76	e.	9	4			10					raining	Oversergent Fischer.
Fanöe	29.68	753.9	29.70	754.4	46.2	7.9	96	w.			4		10						Overloerer Lauridsen.
Godthaab, Greenland	29.13	740.0	29.18	741.1	19.2	— 7.1		nw.			4		10					snowing	S. Kleinschmidt.
Stykkisholm, Iceland	29.84	757.9	29.88	759.0	22.6	— 5.2	90	calm			0		0						A. O. Thorlacius.
Thorshavn	29.53	750.1	29.57	751.0	36.0	2.2	91	ne.	21.3	9.5			10					rain & sleet.	Overloerer Bergh.
Vestervig	29.56	750.8	29.65	753.1	42.6	5.9	86	ese.			2		10						Loerrer Oesterboi.
FRENCH.																			
Agen, Normal School	29.61	752.2	30.28	769.0	52.9	11.6	62	ne.			1		kn		n.	0	0		M. Labroue, Director.
Alençon, Normal School	29.67	753.6	30.22	767.6	50.9	10.5	80	sw.			1		kn		n.	0	0		M. Nicot, Director.
Arras, Engineer School	29.82	757.3	30.08	763.9	49.1	9.5	100	sw.			6		10					light rain	M. Klein, Commandant.
Avignon, Normal School	30.02	762.4	30.10	764.4	59.7	15.4	39	n.			3		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.65	753.0	30.21	767.4	50.2	10.1	73	s.			1		10			0	0	covered	M. Saillard, Director.
Beauvais, Normal School	29.89	759.3	30.16	766.1	55.0	12.8	70	sw.			1		8		w.	0	0	very cloudy	M. Frère Eugène Mari.
Besançon, Normal School	29.26	743.3	30.17	766.4	50.9	10.5	70	ne.			1		0			0	0	clear	M. Gobin, Director.
Bordeaux, Observatory	30.00	762.1	30.27	768.9	52.0	11.1	45	n.			1		8			0	0	very cloudy.	M. Rayet, Director.
Bourges, Normal School	29.68	753.8	30.25	768.3	53.6	12	50	w.							w.	0	0		M. Postel, Director.
Brest, Naval Observatory	29.95	760.7	30.19	766.9	56.5	13.6	73	sw.			2		10		sw.	0	0		M. de Kermaree, Dir.
Caen, Normal School	30.02	762.4	30.09	764.3	54.0	12.2	65	sw.			2		1c		w.	0	0	covered	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.79	756.7	30.11	764.9	50.9	10.5	75	sw.			2		8			0	0	very cloudy	M. Jadot, Director.
Charleville, Normal School	29.61	752.1	30.13	765.3	52.2	11.2	65	w.			1		10			0.012	0.3	covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.85	732.9	30.24	768.0	48.9	9.4	54	n.			1		10			0	0	covered	M. Alluard, Director.
Cluny, Normal School	29.37	746.0	30.23	767.8	49.1	9.5	64	n.			1		7		n.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.31	744.5	30.19	766.8	51.6	10.9	65	w.			1	c	8 n	w.	w.	0	0	very cloudy	Dr. Coulet, Director.
Gap, Normal School	27.54	699.5	30.10	764.5	59.0	15	30	w.			2					0	0		M. Jeangirard, Director.
Gréasque, du. Rhone	28.93	734.7	30.05	763.2	58.5	14.7	33	nnw.			2		1		sw.	0	0		M. Klina, Director.
Grenoble, Normal School	29.39	746.5	30.17	766.2	52.5	11.4	56	ese.			1	ck	0			0	0		M. Ablard, Director.
Guéret, Normal School	28.65	727.6	30.26	768.5	46.4	8	59	nw.			1		n		s.	0	0		M. Rivoire, Director.
Lamballe, Normal School	29.90	759.4	30.17	766.4	51.1	10.6	72	ssw.			2		8		ssw.	0.024	0.6	very cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.61	752.1	30.17	766.3	62.6	17	80	e.			1		0			0	0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	30.14	765.5	30.24	768.1	53.6	12.0	76	sw.			2		10	w.	nw.	0	0	covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.16	740.6	30.23	767.9	50.4	10.2	48	n.			2	o	5 n		n.	0	0	cloudy	M. André, Director.
Mans, Normal School	29.94	760.5	30.25	768.4	52.0	11.1	66	sw.			1		1c			0	0	covered	M. Piboen, Director.
Marseille, Observatory	29.82	757.3	30.09	764.2	61.0	16.1	47	wsw.			0.1		0			0	0		M. Stephan, Director.
Montlouis l'instituteur	24.85	631.3	29.70	754.3	42.8	6.0	35	nw.	9.4	4.2			6		ne.	0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.95	760.8	30.08	764.1	61.7	16.5	49	calm			0		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.37	746.1	30.17	766.2	51.8	11	56	w.			1	o	8 kn		w.	0	0	very cloudy.	M. Hasse, Director
Nantes, Observatory	30.12	765.1	30.28	769.2	53.6	12	65	wsw.			0–2		10 n		wsw.	0	0		M. Larocque, Director.
Perpignan, Observatory	30.04	763.0	30.15	765.8	59.5	15.3	30	n.	15.0	6.7			0			0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.24	539.5			32.0	0.0		ene.			1		1		w.	0	0	clear	Gen'l de Nansouty, Dir.
Privas, Normal School	29.17	740.8	30.24	768.1	55.4	13	40	n.			1		0			0	0	clear	M. Taillieu, Director.
Puy de Dôme Obs'y, Summit	25.24	641.0			28.0	— 2.2	96	ne.			1		10			0	0	covered	M. Alluard, Director.
Rochefort, Naval Obs'y	30.26	768.6	30.29	769.4	54.0	12.2	74	w.			1		10		w.	0	0	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	30.08	764.1	30.30	769.6	52.9	11.6	61	nw.			1		10			0	0	covered	M. Mouillot, Director.
Rodez, Normal School	28.04	712.3	30.24	768.2	47.3	8.5	52	nw.			1		1		se.	0	0	clear	M. Serger, Director.
Rouen, Normal School	30.11	764.8	30.16	768.0	51.1	10.6	89	wsw.			1		8			0	0	very cloudy.	M. Plattrier, Director.
Saint Maur, Observatory	30.01	762.3	30.18	766.5	53.6	12.0	71	sw.			1		10		w.	0.004	0.1		M. Renou, Director.
Toulouse, Observatory	29.56	750.9	30.29	769.4	53.6	12.0	48	nnw.			1		5		nw.	0	0	cloudy	M. Bailland, Director.
Versailles, Observatory	29.68	753.8	30.17	766.3	52.9	11.6	59	w.			1					0	0		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.89	759.3	30.19	766.7	54.1	12.3	59	wsw.			2		1c		wnw.	inap.	inap.		M. Marié Davy, Director
GERMAN.																			
Bamberg	29.22	742.1	30.08	763.9	51.8	11.0	60	nw.			3	o	8 k; s		nw.	0	0		Prof. Dr. Hoh.
Berlin	29.65	753.2	29.83	757.7	50.7	10.4	82	nw.			3		10			0.193	4.9		Prof. Dr. Arndt.
Breslau	29.39	746.5	29.92	759.9	49.8	9.9	62	wsw.			3		10			0.039	1.0	raining	Royal University Obs'y.
Carlsruhe	29.71	754.6	30.15	765.9	53.6	12.0	65	sw.			2		10	sw.		0	0		Albert Senz.
Cassel	29.24	742.7	29.95	760.8	52.2	11.2	75	s.			2		8	s.		0.051	1.3		Dr. H. Möhl.
Frankfort on the Main	29.58	751.4	29.95	760.7	53.8	12.1	71	sw.			1		10			0	0		Physical Society.
Friedrichshafen	28.72	729.4	30.17	766.4	48.2	9.0	57	sw.			2		2	wsw.		0	0		Wilhelm, Chief Tel.
Hamburg	29.73	755.2	29.83	757.6	48.2	9.0	99	w.			4		10			0.217	5.5	raining	E. Preller.
Kiel	29.74	755.5	29.76	755.9	47.7	8.7	95	w.			4		10			0.354	9.0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.54	750.2	29.96	761.0	49.1	9.5	78	sw.			4		9	w.		0.189	4.8		H. Leppig, Asst.
Magdeburg	29.69	754.2	29.88	759.0	53.2	11.8	80	w.			5	ck	9 ks		w.	0	0		Dr. Assmann.
Memel	29.58	751.2	29.62	752.4	40.1	4.5	94	w.			4	5 cs	0						Issermann.
Munich	28.30	718.8	30.17	766.3	49.8	9.9	42	nw.			2		5	w.		0	0		Central Station.
Neufahrwasser	29.67	753.6	29.69	754.0	46.0	7.8	86	wnw.			3		10			0.043	1.1	raining	A. Lothes.
Neustadt, Palatinate	29.58	751.4	30 11	764.8	52.3	11.3	64	w.			3		10	w.		0	0		Dicknether.
Stuttgart	29.18	741.2	30.08	764.1	52.7	11.5	53	w.			4		10			0	0		Prof. Dr. Schoder.
Wustrow	29.74	755.3	29.76	755.9	43.7	6.5	99	sw.			5		10 s			0.205	5.2		Profs. Brandes & Reimer.
GREEK.																			
Athens	29.48	748.7	29.87	758.7	59.9	15.5		ne.			1.5		10			0.413	10.5	sprinkling	Schmidt & Wourlisch.
INDIAN.																			
Bellary	28.28	718.3			97.5	36.4	23	sè.	3.4	1.5		2 ck	8			0	0	gloomy	
Kurrachee	29.83	757.7	29.88	759.0	78.9	26.1	74	wsw.	27	12.1			6	ssw.		0	0	d. clouds	
Deesa	29.32	744.8	29.78	756.4	95.4	35.2	33	w.	6.8	3.0			5	nw.		0	0	misty	
Bombay	29.80	756.9	29.84	757.8	83.3	28.5	69	nnw.	21	9.4			0			0	0	blue sky	
Poona, Yarrowda	27.95	710.0	29.75	755.7	94.6	34.8	7	w.	17	7.6			0			0	0	blue sky	
Belgaum	27.27	692.8	29.77	756.2	83.1	28.4	61	wsw.	11	4.9			0			0	0	misty	
Lahore	29.01	736.7	29.74	755.3	87.8	31.0	26	calm	1.9	0.8			0			0	0	misty	
Roorkee	28.79	731.3	29.67	753.6	89.8	32.1	29	sw.	1.1	0.5			0			0	0		
Agra	29.18	741.1	29.72	755.0	96.1	35.6	17	n.	7.2	3.2			0			0	0		
Nagpur	28.69	728.7	29.69	754.1	100.2	37.9	12	nw.	4.1	1.8			0			0	0	blue sky	
Jubbulpore	28.41	721.6	29.72	755.0	95.9	35.5	10	n.	2.2	1.0			0			0	0	blue sky	
Lucknow	29.32	744.7	29.68	753.9	96.0	35.6	14	wsw.	5.6	2.5			0			0	0	blue sky	
Allahabad	29.38	746.3	29.68	753.9	95.7	35.4	16	nw.	1.7	0.8			0			0	0	blue sky	
Patna	29.51	749.5	29.69	754.1	98.3	36.8	28	nw.	3.3	1.5			0			0	0	blue sky	
Hazaribagh	27.69	703.3	29.62	752.4	95.8	35.4	28	nnw.	7.6	3.4			0			0	0	blue sky	
Cuttack	29.75	755.5	29.83	757.6	84.0	28.9	70	sw.	9.7	4.3			9			0	0	threatening	
Calcutta, Allpore	29.71	754.6	29.73	755.1	85.7	29.8	65	s.	9.0	4.0			9			0.52	13.2	blue sky	
Dhubri	29.65	753.2	29.78	756.3	70.7	21.5	88	ne.	7.0	3.1			9		sw.	0	0	gloomy	
Chittagong	29.76	755.8	29.84	758.0	80.1	26.7	81	s.	9.3	4.2			1			0	0	blue sky	
Sibsagar	29.52	749.8	29.87	758.6	68.0	20.0	89	sw.	3.7	1.7			10	w.	w.	0.65	16.5	overcast	
Jeypore	28.35	720.2	29.77	756.1	90.2	32.3	15	nw.	6.2	2.8			6	nw.		0	0	d. clouds	
Zanzibar, Africa	29.82	757.4			78.1	25.6	86	sw.	5.4	2.4			9			0.50	12.7	raining	
Trichinopoly	29.54	750.3			95.5	35.3	41	sse.	2	0.9			3			0	0	d. clouds	
ITALIAN.																			
Udine	29.69	754.0	30.10	764.4	57.4	14.1	32						2			0	0		Prof. Giovanni Clodig.
Milan	29.60	751.9	30.12	765.0	58.3	14.6	35	se.	2.7	1.2			1			0	0		Prof. Schiaparelli.
Padua	30.01	762.2	30.12	765.0	56.8	13.8	33	ese.	3.1	1.4			0			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.20	741.6	30.11	764.8	57.6	14.2	32	s.	2.5	1.1			0			0	0		Prof. P. F. Denza.
Genoa	29.87	758.7	30.06	763.6	59.9	15.5	34	n.	7.4	3.3			0			0	0		Prof. G. M. Garibaldi.
Mondovi																			Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
ITALIAN.—Continued.																			
Pesaro	30.02	762.4	30.06	763.6	52.7	11.5	76	ne.	11.9	5.3	.....	.....	0	.....	.....	0	0	.....	Prof. Luigi Guidi.
Florence	29.79	756.7	30.05	763.2	57.2	14.0	45	ne.	.....	.....	6	.....	0	.....	.....	0	0	.....	Prof. Costantino Pitter.
Leghorn	29.91	759.6	29.99	761.8	59.2	15.1	43	ene.	10.5	4.7	.....	.....	0	.....	.....	0	0	.....	Prof. P. Monte.
Rome	29.69	754.2	29.87	758.6	64.6	18.1	25	n.	16.1	7.2	.....	.....	0	.....	.....	0	0	.....	Prof. P. S. Ferrari.
Lecce	29.57	751.0	29.82	757.4	59.9	15.5	68	ne.	15.4	6.9	.....	.....	9	.....	.....	0.677	17.2	.....	Prof. C. de Giorgi.
Cosenza	28.93	734.7	29.81	757.2	52.5	11.4	71	wnw.	8.7	3.9	.....	.....	10	nw.	.....	0	0	.....	Prof. D. Conti.
Cagliari	29.60	751.8	29.79	756.7	57.7	14.3	59	calm	.....	.....	0	.....	10	n.	.....	0.236	6.0	.....	Prof. A. Pacinotti.
Palermo	29.49	749.1	29.74	755.5	56.5	13.6	78	ne.	31.1	13.9	.....	.....	10	.....	.....	1.158	29.4	.....	Prof. G. Giacciatore.
Syracuse	29.62	752.3	29.67	753.5	57.0	13.9	77	ese.	12.5	5.6	.....	.....	10	ese.	.....	0.787	20.0	.....	Prof. Vincenzo Guiliano.
Sub-series.																			
Naples, S. It	29.33	745.0	29.85	757.2	57.2	14.0	52	e.	12.5	5.6	.....	.....	9	se.	.....	0	0	.....	Prof. T. Brioschi.
Stelvio	22.15	562.7	.....	.....	30.4	— 0.9	43	e.	.....	.....	1	.....	1	.....	.....	0	0	misty	Prof. P. F. Denza.
Valdobbia	22.19	563.4	.....	.....	34.0	1.1	55	w.	.....	.....	2	.....	0	.....	.....	0	0	clear	Prof. P. F. Denza.
JAPANESE.																			
Aomori	30.08	764.0	30.12	765.0	37.8	3.2	70	w.	7.3	3.3	.....	6 ck	8	.....	.....	0.090	2.3	fair	K. Ogawa.
Hakodate	30.07	763.8	30.08	764.0	37.0	2.8	71	nnw.	4.8	2.1	.....	.....	8	.....	nw.	0.023	0.6	cloudy	K. Sasaki.
Hiroshima, I. M. Obs'y	30.21	767.3	30.23	767.8	46.0	7.9	82	nne.	5.7	2.5	.....	2ck;cs	0	.....	.....	0	0	fair	S. Endo.
Kanazawa	30.19	766.8	30.29	769.3	39.0	3.9	85	se.	5.6	2.5	.....	0	0	.....	.....	0	0	clear	M. Tojima.
Kioto	30.07	763.8	30.25	768.3	40.4	4.7	81	nnw.	3.5	1.6	.....	4ck;cs	0	.....	.....	0	0	fair	
Kochi	30.24	768.1	30.26	768.6	49.2	9.6	78	nnw.	2.7	1.2	.....	1 c;cs	0	w.	.....	0	0	clear	
Nagasaki, I. M. Obs'y	30.07	763.8	30.29	769.3	44.4	6.9	82	calm	0	0	.....	1 cs	0	.....	.....	0	0	clear	S. Takehayashi.
Niigata	30.20	767.1	30.24	768.1	40.9	4.9	86	sw.	5.5	2.5	.....	3 ck	0	w.	.....	0.005	0.1	fair	
Nobiru	30.15	765.8	30.16	766.0	41.5	5.3	58	nw.	12.0	5.4	.....	0	0	.....	.....	0	0	clear	H. Midzushima.
Supporo	.....	.....	.....	.....	33.7	0.9	85	nw.	3.0	1.3	.....	.....	6	.....	.....	0.145	3.7	cloudy	
Tokei Obs'y, Yeddo	30.09	764.3	30.16	766.1	45.2	7.3	79	sse.	3.3	1.5	.....	2ck;cs	0	w.	.....	0	0	fair	The Staff.
Wakayama	30.18	766.6	30.23	767.8	46.5	8.1	69	ne.	1.1	0.5	.....	6 ck	0	w.	.....	0	0	fair	Y. Kuwamuea.
MAURITIUS.																			
Mauritius Observatory	29.74	755.4	29.93	760.2	78.8	26.0	84	e.	13.5	6.0	.. ..	0	8 ks;n	.....	e.	0.89	22.6	cloudy	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.72	602.7	29.95	760.7	56.3	13.5	72	s.	.....	.....	.....	6	0	s.	.....	0	0	fair	Vicente Fernandez.
Leon	24.45	620.9	30.14	765.8	57.7	14.3	75	calm	.....	.....	0	6	0	s.	.....	0	0	foggy	Prof. M. Leal.
Mazatlan	29.79	756.6	30.05	763.3	63.5	17.5	78	nne.	0.9	0.4	.....	7 cs	0	sw.	.....	0	0	very cloudy	F. Quijano, C. E.
Mexico, Central Obs'y	23.15	587.9	30.25	768.3	51.8	11.0	69	sw.	0.4	0.2	.....	3	2	.....	.....	0	0	fine	M. Tena, M. D.
Morelia	24.26	616.3	30.40	772.2	57.2	14.0	73	w.	.....	.....	3	2	0	w.	.....	0	0	.....	The Staff.
Pabellon, Aguascalientes	23.98	609.1	30.02	762.6	55.9	13.3	68	calm	.....	.....	0	5	0	sw.	.....	0	0	½ clouded	M. V. de Leon, M. E.
Puebla, Catholic Institute	23.45	595.7	30.20	767.0	55.0	12.8	82	calm	0	0	.....	.....	10	.....	sse.	0	0	covered	Prof. P. Spina.
San Luis Potosi	24.26	616.3	30.28	769.0	56.7	13.7	65	ese.	.....	.....	1	7	0	w.	.....	0	0	.....	G. Barroeta, M. D.
Vera Cruz	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Zacatecas	22.59	573.6	30.20	767.0	50.1	10.0	65	sw.	7.2	3.2	.....	0	3	.....	sw.	0	0	½ clouded	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.02	762.5	30.02	762.5	52.7	11.5	.....	wsw.	.....	.....	5	.....	.....	.....	.....	0	0	.....	
Groningen	29.84	757.8	29.89	759.2	51.3	10.7	.....	wnw.	.....	.....	4	.....	.....	.....	.....	0.055	1.4	.....	
Helder	29.89	759.3	29.89	759.3	49.6	9.8	.....	sw.	.....	.....	4	.....	.....	.....	.....	0.020	0.5	.....	
Hellevoetsluis	29.98	761.6	29.98	761.6	52.3	11.3	84	wsw.	.....	.....	4	.....	.....	.....	.....	0	0	.....	
Utrecht	29.94	760.5	29.99	761.7	50.9	10.5	93	wsw.	.....	.....	4	.....	10	.....	.....	0.008	0.2	dull	H. van der Brink.
NORWEGIAN.																			
Bergen	29.54	750.2	29.60	751.8	43.2	6.2	53	sse.	13	6	.....	.....	7	.....	.....	0.472	12.0	.....	
Brono	29.68	753.9	29.72	754.9	37.0	2.8	52	calm	0	0	.....	.....	9	.....	.....	0	0	.....	
Christiania	29.50	749.4	29.65	753.2	43.5	6.4	59	e.	7	3	.....	.....	2	.....	.....	0	0	.....	
Gjæsvær	29.49	749.0	29.51	749.6	33.1	0.6	.....	sw.	.. ..	.....	4	.....	8	.....	.....	.....	.....	.....	
Lodingen	29.58	751.3	29.63	752.5	30.6	— 0.8	65	wsw.	.....	.....	4–6	.....	8	.....	.....	0	0	.....	
PORTUGUESE.																			
Angra, Azores	.....	.....	.....	.....	59.0	15.0	82	sse.	7.4	3.3	.....	.....	3	.....	.....	0	0	.....	Dr. J. A. Sampaio.
Campo Major	29.13	739.8	30.11	764.8	68.4	20.2	17	nne.	6.3	2.8	.....	.....	1	.....	.....	0	0	.....	Dr. A. M. R. dos Santos.
Funchal, Maderia	30.14	765.6	30.23	767.8	67.3	19.6	22	ese.	.....	.....	.....	.....	0	.....	.....	0	0	.....	Capt. D. A. de Cunha.
Lisbon, Observatory	29.84	757.9	30.20	767.0	65.1	18.4	39	n.	14.3	6.4	.....	.....	0	.....	.....	0	0	.....	The Staff.
Ponta Delgada, Azores	30.33	770.4	30.40	772.2	60.1	15.6	73	ese.	6.3	2.8	.....	.....	10	.....	.....	0	0	.....	
Saint Paul de Loando	29.67	753.5	29.87	758.6	80.6	27.0	91	wnw.	1.3	0.6	.....	.....	6	e.	.....	0	0	.....	
Serra da Estrella	25.40	645.2	30.14	765.5	49.6	9.8	2	nnw	8.1	3.6	.....	.....	0	.....	.....	0	0	.....	
RUSSIAN.																			
Akmolinski	28.89	733.8	30.02	762.6	27.0	— 2.8	85	ne.	2	1	.....	.....	10 n	.....	.....	0.004	0.1	.....	Major K. Lasarew.
Archangel	29.78	756.4	29.80	756.9	39.7	4.3	70	s.	4	2	.....	.....	10	.....	.....	0	0	light clouds	Capt. Sselliwerstow.
Astrakhan	30.22	767.5	30.13	765.4	52.5	11.4	40	s.	11	5	.....	3 cs	0	.....	.....	0	0	.....	Capt. Wisganow.
Barnaul	29.57	751.0	30.10	764.4	25.9	— 3.4	76	sw.	2	1	.....	.....	10	.....	.....	0.028	0.7	.....	Meteorological Obs'y.
Dorpat	29.41	747.0	29.65	753.2	43.2	6.2	76	s.	11	5	.....	.....	10 ks	.....	.....	0.094	2.4	.....	Observatory.
Ekaterinburg	29.24	742.8	30.26	768.5	30.4	— 0.9	61	calm	0	0	.....	1 c	0	.....	.....	0	0	light clouds	Meteorological Obs'y.
Kasan	29.94	760.4	30.22	767.5	43.2	6.2	56	sso.	2	1	.....	.....	10	.....	.....	0	0	.....	Observatory.
Kertch	29.90	759.5	29.92	760.0	44.8	7.1	77	sse.	4	2	.....	.....	9 n	.....	.....	0	0	.....	Lagorio & Sastyrez.
Kieff	29.17	740.8	29.81	757.1	43.9	6.6	83	se.	9	4	.....	.....	10 ks;n	.....	.....	0.094	2.4	raining	Observatory.
Lugan	29.74	755.3	29.94	760.4	55.8	13.2	24	se.	18	8	.....	.....	2	.....	.....	0	0	.....	Meteorological Obs'y
Moscow	29.48	748.7	29.96	760.9	49.6	9.8	52	sse.	7.8	3.5	.....	0	2 ks	.....	.....	0	0	.....	Meteorological Obs'y.
Nikolaiev	29.89	759.1	29.96	760.9	45.9	7.7	82	s.	4	2	.....	.....	10 n	.....	.....	0.071	1.8	.....	Capt. Kurdakow.
Nikolaievsk, on the Amoor	29.90	761.0	30.05	763.2	26.2	— 3.2	78	w.	11	5	.....	.....	10	.....	.....	0.031	0.8	.....	Lieut. Iwanow.
Pekin, China	30.09	764.2	30.23	767.8	49.5	9.7	94	calm	0	0	.....	0	8 n	.....	.....	0	0	.....	Physical Observatory
St. Petersburg	29.69	754.2	29.71	754.6	42.1	5.6	85	s.	4	2	.....	.....	10 ks;n	.....	.....	0.020	0.5	.....	Central Physical Obs
Tashkend, Laboratory	28.60	726.3	30.19	766.8	51.8	11.0	69	calm	0	0	.....	.....	10	.....	.....	0	0	light clouds	Teich, A. M.
Tiflis	28.63	727.2	30.06	763.4	53.4	11.9	41	e.	4	2	.....	.....	10 ks	.....	.....	0	0	.....	Physical Observatory
Vladivostok	30.19	766.8	30.26	768.5	31.3	— 0.4	90	calm	0	0	.....	0	0	.....	.....	0	0	.....	
Warsaw	29.37	746.0	29.80	756.9	44.0	7.0	91	wsw.	18	8	.....	.....	10 n	.....	.....	.....	.....	raining	Astronomical Obs'y
Wilna	29.29	744.0	29.71	754.7	46.6	8.1	62	ssw.	7	3	.....	.....	10	.....	.....	0.098	2.5	heavy cl'ds.	Berg, Assistant.
Yeniseisk	29.71	754.6	30.01	762.3	25.7	— 3.5	75	w.	4	2	.....	.....	5	.....	.....	0.031	0.8	snowing	M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	30.00	762.0	30.10	764.6	59.7	15.4	55	s.	4.0	1.8	.....	.....	0	.....	.....	0	0	clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.23	767.9	30.29	769.4	54.7	12.6	74	nw.	0.9	0.4	.....	.....	10	.....	.....	0	0	covered	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.22	691.4	30.21	767.3	51.8	11.0	36	n.	8.9	4.0	.....	0	0	.....	.....	0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	27.91	708.8	30.14	765.5	57.9	14.4	27	calm	1.6	0.7	.....	0	0	.....	.....	0	0	clear	The Staff.
Murcia, Met. Obs'y	29.99	761.8	30.15	765.7	62.6	17.0	50	se.	3.8	1.7	.....	0	1	.....	.....	0	0	almost clear	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.30	744.3	30.21	767.3	58.1	14.5	48	n.	9.4	4.2	.....	.....	0	.....	.....	0	0	clear	R. Gil Vallanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I	30.08	763.9	30.14	765.6	73.8	23.2	86	se.	3.1	1.4	.....	6 c;cs	0	wnw.	.....	0	0	fair	Benito Vines, S. J.
Manilla, Philippine Islands	29.92	760.0	29.98	761.5	82.7	28.2	68	ese.	0.8	0.4	.....	0	1 ks	.....	.....	0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.07	763.9	30.17	766.4	62.1	16.7	54	wnw.	8.6	3.9	.....	0	0	.....	.....	0	0	.....	Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	30.10	764.6	30.19	766.9	75.6	24.2	76	se.	11.6	5.2	.....	6 cs	3 k	se.	se.	0	0	d. clouds	Manuel Maeu.
Tuguegarao, Philippine Id's	29.88	758.9	30.01	762.2	78.8	26.0	80	wsw.	6.7	3.0	.....	.....	10 n	.....	sw.	0.02	0.5	covered	José L. Yrastorza.
SWEDISH																			
Haparanda	29.59	751.6	29.63	752.6	36.3	2.4	79	n.	.....	.....	2	.....	10	.....	.....	0	0	.....	
Umea	29.60	751.7	29.65	753.0	39.6	4.2	65	ne.	.....	.....	2	.....	5	.....	.....	0	0	.....	
Hernosand	29.59	751.5	29.64	752.8	35.4	1.9	84	s.	.....	.....	2	.....	3	.....	.....	0	0	.....	
Stockholm	29.43	747.6	29.61	752.1	40.3	4.6	74	ne.	.....	.....	4	.....	10	.....	.....	0	0	.....	
Wisby	29.52	749.9	29.58	751.4	37.4	3.0	90	n.	.....	.....	4	.....	10	.....	.....	0.091	2.3	.....	
Sub-series.																			
Upsala	29.52	749.7	29.60	751.9	40.3	4.6	77	nnw.	14.1	6.3	.....	.. ..	8	.....	ne.	0	0	.....	S. G. Fineman.
SWISS.																			
Geneva	28.74	730.1	30.19	766.8	48.9	9.4	49	n.	.....	.....	3	.....	.....	.....	.....	0	0	clear	The Observatory

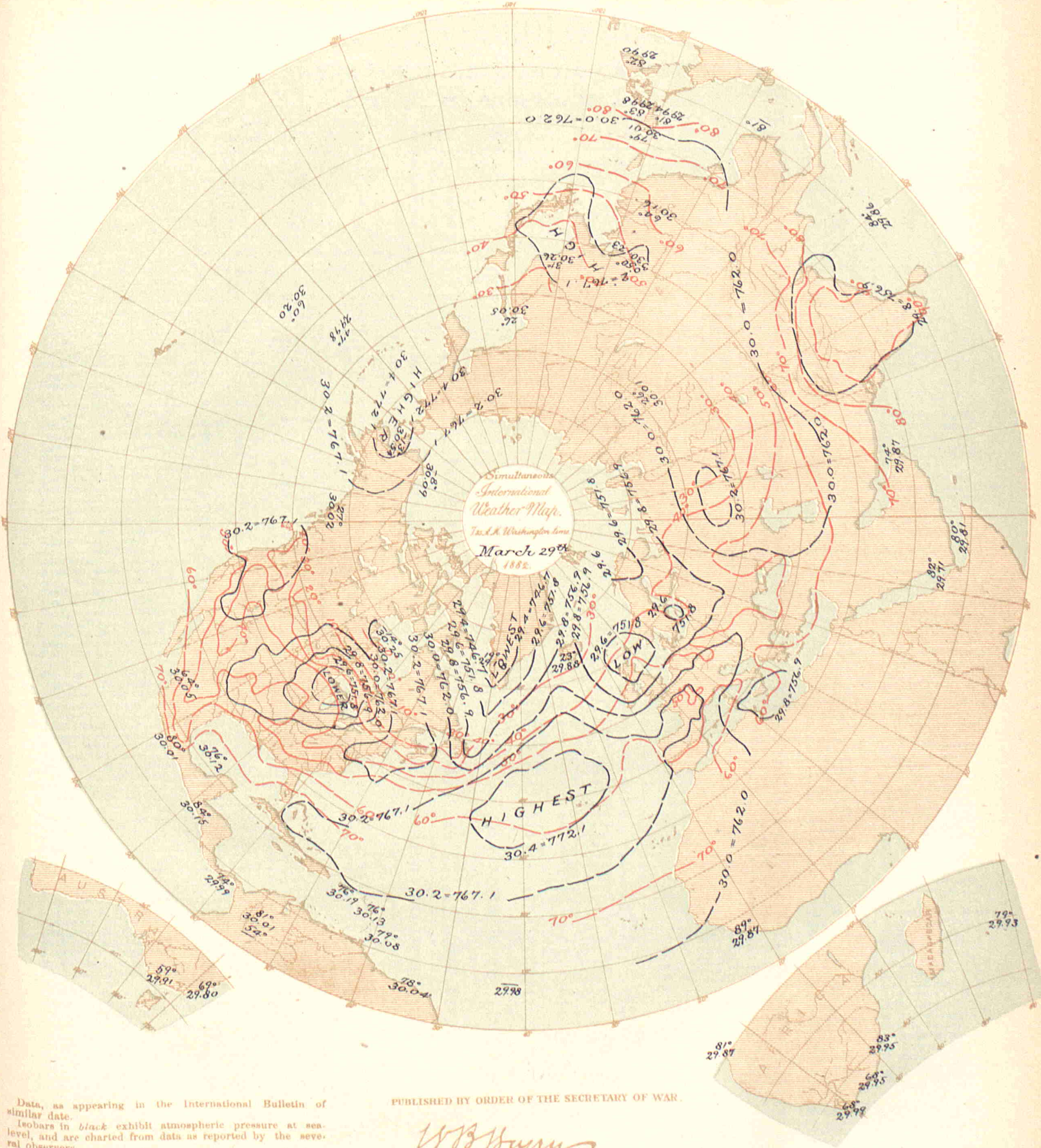
STATIONS.	BAROMETER. Corrected for instrumental error and for temperature.		BAROMETER. Reduced to sea-level.		Temperature of the air.		Relative humidity.	WIND. Direction.	WIND. Velocity.		WIND. Force.	CLOUDS. Amount and kind. Upper.	CLOUDS. Amount and kind. Lower.	CLOUDS. Direction. Upper.	CLOUDS. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
TURKISH.																			
Constantinople	.....	.....	29.96	761.0	49.3	9.6	79	n.	22	10.0	.....	.....	10	.....	n.	0.039	1.0	.....	The Observatory.
Valona	.....	.....	29.87	758.8	64.0	17.8	.....	s.	.....	.....	1	.....	10	.....	.....	0	0	covered	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	29.84	758.0	65.1	18.4	74	n.	.....	.....	1	10 cs	0	n.	.....	0	0	.....	Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	30.15	765.8	30.24	768.1	39	3.9	65	s.	1	0.4	.....	10 cs	0	.....	.....	0	0	cloudy	J. O. Barnes.
Alpena, Michigan	28.96	735.6	29.66	753.4	36	2.2	79	s.	20	8.9	.....	10 cs	0	s.	.....	0	0	cloudy	Jas. J. Fitzgerald.
Atlanta, Georgia	28.92	734.6	30.13	765.3	43.0	6.1	83	w.	10	4.5	.....	0	0	.....	.....	0	0	clear	H. Hall.
Atlantic City, New Jersey	30.17	766.3	30.18	766.6	39.5	4.2	77	e.	10	4.5	.....	1 c	0	.....	.....	0.09	2.3	clear	Jas. M. Watson.
Augusta, Georgia	29.95	760.7	30.15	765.8	50.0	10.0	77	w.	2	0.9	.....	0	0	.....	.....	0.15	3.8	clear	John Healy.
Baltimore, Maryland	30.18	766.6	30.23	767.8	37	2.8	61	ne.	5	2.2	.....	3 cs	3 s	w.	.....	0.01	0.3	fair	Robert Seyboth.
Barnegat, New Jersey	30.18	766.6	30.20	767.1	41.0	5.0	79	e.	10	4.5	.....	4 cs	0	.....	.....	0.07	1.8	fair	Chas. F. Merritt.
Bismarck, Dakota	28.01	711.4	29.93	760.2	21	— 6.1	87	nw.	24	10.7	.....	.....	10 s	.....	.....	0	0	cloudy	Cyrus Cramer.
Boise City, Idaho	27.28	692.9	30.20	767.1	41	5.0	76	w.	4	1.8	.....	0	4 s	.....	calm	0	0	fair	B. E. Light.
Boston, Massachusetts	30.11	764.8	30.27	768.8	32.0	0.0	60	ne.	6	2.7	.....	0	hz.	.....	.....	inap.	inap.	clear	O. B. Cole.
Brownsville, Texas	29.97	761.2	30.02	762.5	67	19.4	84	se.	4	1.8	.....	9 ck	0	.....	.....	0	0	cloudy	J. C. Galloway.
Buffalo, New York	29.25	742.9	30.04	763.0	34.5	1.4	73	se.	10	4.5	.....	4 cs	sk.	se.	.....	0.01	0.3	fair	Wm. Flinn.
Burlington, Vermont	29.88	758.9	30.19	766.8	28.0	— 2.2	59	se.	1	0.4	.....	10 cs	0	w.	.....	0	0	cloudy	G. C. Schaeffer.
Cairo, Illinois	29.58	751.3	30.00	762.0	48.7	9.3	73	s.	10	4.5	.....	0	0	.....	.....	0	0	clear	W. H. Ray.
Campo, California	27.51	698.7	30.12	765.0	35	1.7	82	se.	4	1.8	.....	0	0	.....	.....	0	0	clear	W. H. Clendenon.
Camp Thomas, Arizona	27.39	693.4	30.08	764.0	41.5	5.3	87	se.	.....	.....	1	0	0	.....	.....	0	0	clear	J. T. Fitzgerald.
Cape Henry, Virginia	30.16	766.1	30.18	766.6	44	6.7	80	e.	15	6.7	.....	3 ck	0	.....	.....	0.04	1.0	clear	J. E. Lanouette.
Cape May, New Jersey	30.16	766.1	30.19	766.8	36	2.2	69	ne.	5	2.2	.....	5 cs	0	sw.	.....	0.05	1.3	fair	W. Bolten.
Castroville, Texas	29.20	741.7	30.04	763.0	46	7.8	93	w.	2	0.9	.....	0	0	.....	.....	0	0	clear	T. Jones.
Cedar Keys, Florida	30.13	765.3	30.15	765.8	64	17.8	84	nw.	2	0.9	.....	.....	10 ks	.....	w.	0.11	2.8	cloudy	F. W. Mixer.
Champaign, Illinois	28.92	734.6	29.78	756.4	43.8	6.6	68	s.	24	10.7	.....	4 ck	4 s	sw.	s.	0	0	cloudy	L. A. Welsh.
Charleston, S. Carolina	30.03	762.7	30.09	764.3	67	19.4	90	w.	5	2.2	.....	0	0	.....	.....	0.30	7.6	clear	J. H. Smith.
Charlotte, N. Carolina	29.22	742.2	30.10	764.5	48.0	8.9	93	ne.	7	3.1	.....	.....	10 s	.....	.....	0.15	3.8	cloudy	D. O. Donoghue.
Chattanooga, Tennessee	29.32	744.7	30.17	766.3	39.5	4.2	84	calm	0	0	.....	.....	fg.	.....	.....	0	0	dense fog	B. L. Goulding.
Cheyenne, Wyoming	23.87	606.3	30.05	763.3	44.2	6.8	25	nw.	6	2.7	.....	.....	10 s	.....	nw.	0	0	cloudy	E. McGovern.
Chicago, Illinois	28.91	734.3	29.65	753.1	46.7	8.2	67	sw.	16	7.2	.....	.....	10 k	.....	sw.	0	0	cloudy	J. Mitchell.
Chincoteague, Virginia	30.16	766.1	30.18	766.6	42	5.6	83	e.	5	2.2	.....	0	1 s	.....	.....	0.03	0.8	clear	F. C. Pratz.
Cincinnati, Ohio	29.35	745.5	30.04	763.0	45	7.2	56	se.	4	1.8	.....	0	0	.....	.....	0	0	clear	R. B. Watkins.
Cleveland, Ohio	29.21	741.9	29.99	761.7	34.2	1.2	79	se.	14	6.3	.....	10 c	0	sw.	.....	0	0	cloudy	J. B. Newlin.
Coleman City, Texas	28.11	714.0	29.96	761.0	49	9.4	80	sw.	16	7.2	.....	0	0	.....	.....	0	0	clear	L. Dorman.
Columbus, Ohio	29.14	740.1	30.02	762.5	40	4.4	57	s.	7	3.1	.....	6 cs	0	.....	.....	0	0	fair	D. Cuthbertson.
Concho, Texas	27.98	710.7	29.95	760.7	51	10.6	80	sw.	20	8.9	.....	0	0	.....	.....	0	0	clear	W. W. McConihe.
Davenport, Iowa	28.98	736.1	29.67	753.6	50	10.0	64	sw.	9	4.0	.....	.....	10 ks	.....	w.	0	0	cloudy	R. R. Martin.
Dayton, Washington T'y	28.45	722.6	30.26	768.6	37	2.8	66	sw.	17	7.6	.....	.....	10 s	.....	sw.	0	0	threatening	H. Clifford.
Deadwood, Dakota	25.18	639.6	30.02	762.5	33.5	0.8	92	sw.	10	4.5	.....	.....	10 s	.....	.....	0.16	4.1	cloudy	G. W. Scott.
Decatur, Texas	.....	.....	.....	.....	65	18.3	68	s.	14	6.3	.....	0	0	.....	.....	0	0	clear	D. J. Carr.
Delaware Breakwater, Del.	30.16	766.6	30.20	767.1	38	3.3	82	ne.	10	4.5	.....	4 c	0	.....	.....	0.07	1.8	fair	A. Schneider.
Denison, Texas	29.02	737.1	29.85	758.2	55.2	12.9	69	sw.	24	10.7	.....	0	0	.....	.....	0	0	clear	J. McGlone.
Denver, Colorado	24.54	623.3	29.98	761.5	55.0	12.8	25	w.	32	14.3	.....	0	7 ks	.....	w.	0	0	fair	F. M. Neal.
Des Moines, Iowa	28.74	730.0	29.70	754.4	49	9.4	63	n.	4	1.8	.....	0	5 s	.....	n.	0	0	fair	F. W. Conrad.
Detroit, Michigan	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0	0	.....	C. F. R. Wappenhans.
Dodge City, Kansas	27.18	690.4	29.91	759.7	45	7.2	47	n.	12	5.4	.....	.....	10 s	.....	.....	0	0	cloudy	E. A. Thomas.
Dubuque, Iowa	28.83	732.3	29.58	751.3	48.3	9.1	63	sw.	5	2.2	.....	3 k	4 s	w.	s.	0	0	fair	J. Harvey Smith.
Duluth, Minnesota	28.74	730.0	29.48	748.8	37	2.8	82	sw.	4	1.8	.....	.....	10 s	.....	sw.	0.02	0.5	cloudy	N. B. Conger.
Eagle Pass, Texas	29.22	742.2	30.04	763.0	50.0	10.0	77	calm	0	0	.....	0	0	.....	.....	0	0	clear	F. Belford.
Eagle Rock, Idaho	25.28	642.1	30.16	766.1	32	0.0	81	sw.	22	9.8	.....	6 c	0	sw.	.....	0	0	fair	J. M. Clifford.
Eastport, Maine	30.21	767.3	30.28	769.1	22.5	— 5.3	52	n.	12	5.4	.....	0	0	.....	.....	0.01	0.3	clear	J. H. Melton.
El Paso, Texas	26.28	667.5	30.08	764.0	50	10.0	35	nw.	10	4.5	.....	0	0	.....	.....	0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.25	742.9	30.02	762.5	37	2.8	61	s.	14	6.3	.....	4 cs	0	.....	.....	0	0	fair	R. H. Paxton.
Escanaba, Michigan	28.73	729.7	29.44	747.8	35	1.7	100	s.	9	4.0	.....	.....	10 n	.....	s.	0.11	2.8	light rain	C. Dill.
Florence, Arizona	28.55	725.2	30.12	765.0	47.3	8.5	57	sw.	4	1.8	.....	0	0	.....	.....	0	0	clear	R. R. Herman.
Fort Apache, Arizona	25.13	638.3	30.15	765.8	28	— 2.2	61	ne.	4	1.8	.....	0	0	.....	.....	0	0	clear	W. C. Barnes.
Fort Assinnaboine, Montana	27.18	690.4	30.19	766.8	21	— 6.1	61	n.	7	3.1	.....	.....	10 n	.....	.....	0.06	1.5	light snow	B. O. Lenoir.
Fort Bennett, Dakota	28.20	716.3	29.90	759.4	35	1.7	82	w.	4	1.8	.....	0	9 s	.....	.....	0.04	1.0	cloudy	T. Gibson.
Fort Benton, Montana	27.12	688.8	30.10	764.5	30	— 1.1	71	calm	0	0	.....	0	0	.....	.....	0.02	0.5	clear	S. Wheaton.
Fort Buford, Dakota	27.93	709.4	30.07	763.8	19	— 7.2	70	n.	11	4.9	.....	.....	10 s	.....	calm	0.02	0.5	cloudy	A. H. Bell.
Fort Custer, Montana	26.73	678.9	30.06	763.5	35	1.7	72	n.	5	2.2	.....	.....	10 s	.....	calm	0	0	cloudy	V. Verge.
Fort Davis, Texas	25.14	638.5	30.02	762.5	53	11.7	77	sw.	5	2.2	.....	0	0	.....	.....	0	0	clear	J. Williams.
Fort Elliott, Texas	26.97	685.0	29.80	756.9	52	11.1	43	nw.	20	8.9	.....	0	0	.....	.....	0	0	clear	W. J. Cundall.
Fort Gibson, Indian T'y	29.22	742.2	29.81	757.2	55.4	13.0	62	se.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. B. Campbell.
Fort Grant, Arizona	25.32	643.1	30.15	765.8	43	6.1	18	se.	4	1.8	.....	0	0	.....	.....	0	0	clear	T. J. Macgowan.
Fort Griffin, Texas	28.52	724.4	29.87	758.7	58	14.4	47	s.	22	9.8	.....	0	0	.....	.....	0	0	clear	G. H. Hayne.
Fort Keogh, Montana	27.39	695.7	30.04	763.0	26	— 3.3	67	n.	21	9.4	.....	9 cs	0	n.	.....	0	0	cloudy	W. B. Stockman.
Fort Macon, North Carolina	30.10	764.5	30.11	764.8	50	10.0	93	ne.	17	7.6	.....	10 k	0	ne.	.....	1.61	40.9	cloudy	L. Leonardy.
Fort McKavett, Texas	27.73	704.3	30.05	763.3	51	10.6	61	sw.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. E. Thatcher.
Fort Missoula, Montana	26.78	680.2	30.16	766.1	37	2.8	72	nw.	6	2.7	.....	.....	10 s	.....	e.	0.03	0.8	cloudy	J. H. Jones.
Fort St. Michaels, Alaska	30.50	774.7	30.54	775.7	—13	—25.0	100	calm	0	0	.....	0	0	.....	.....	0	0	clear	A. P. Leavitt.
Fort Shaw, Montana	26.33	668.8	30.13	765.3	15	— 9.4	83	w.	1	0.4	.....	5 cs	0	.....	.....	0.07	1.8	fair	A. L. Mathews.
Fort Sill, Indian Territory	28.51	724.1	29.80	756.9	47.5	8.6	79	s.	7	3.1	.....	0	0	.....	.....	0	0	clear	T. Cleary.
Fort Stevenson, Dakota	28.00	711.2	29.98	761.5	20	— 6.7	73	ne.	12	5.4	.....	.....	10 s	.....	calm	0.07	1.8	cloudy	W. Burrows
Fort Verde, Arizona	.....	.....	.....	.....	41.9	5.5	52	w.	.....	.....	1	0	0	.....	.....	0	0	clear	D. Brooks.
Fort Washakie, Wyoming	24.30	617.2	.....	.....	34.0	1.1	65	e.	3	1.3	.....	0	3 k	.....	.....	0	0	clear	T. M. Ambler.
Fredericksburg, Texas	28.23	717.0	29.99	761.7	52	11.1	86	sw.	3	1.3	.....	0	0	.....	.....	0	0	clear	H. S. Miles.
Galveston, Texas	30.03	762.7	30.07	763.8	63	17.2	62	s.	10	4.5	.....	0	hz.	.....	.....	0	0	clear	E. O'C. MacInernev.
Grand Haven, Michigan	28.93	734.8	29.63	752.6	45.0	7.2	64	s.	30	13.4	.....	.....	10 s	.....	sw.	0	0	cloudy	W. A. Reid.
Hatteras, North Carolina	30.10	764.5	30.12	765.0	49	9.4	86	ne.	24	10.7	.....	0	9 k	.....	ne	0.55	14.0	cloudy	R. M. Crawford.
Helena, Montana	25.62	650.7	29.99	761.7	38	3.3	46	w.	16	7.2	.....	0	0	.....	.....	0	0	clear	N. C. Smith.
Henrietta, Texas	28.85	732.8	29.89	759.2	57	13.9	57	s.	16	7.2	.....	0	0	.....	.....	0	0	clear	J. W. Byram.
Huron, Dakota	28.35	720.1	29.83	757.7	33.8	1.0	82	n.	22	9.8	.....	.....	10 s	.....	nw.	0.02	0.5	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.07	738.4	29.91	759.7	42	5.6	71	se.	7	3.1	.....	0	hz.	.....	calm	0	0	clear	O. Schutze
Indianola, Texas	30.02	762.5	30.06	763.5	60.3	15.7	93	se.	6	2.7	.....	0	0	.....	.....	0	0	clear	I. A. Reed.
Jacksboro, Texas	28.64	727.4	29.85	758.2	53	11.7	66	sw.	14	6.3	.....	0	0	.....	.....	0	0	clear	J. P. Sherry.
Jacksonville, Florida	30.08	764.0	30.13	765.3	63	17.2	78	sw.	3	1.3	.....	2 cs	8 s	.....	sw.	0.04	1.0	cloudy	J. W. Smith.
Keokuk, Iowa	28.98	736.1	29.68	753.9	52.0	11.1	89	sw.	10	4.5	.....	10 k	0	w.	.....	0	0	cloudy	F. Z. Gosewisch
Key West, Florida	30.12	765.0	30.14	765.5	76.5	24.7	82	se.	5	2.2	.....	5 cs	3 s	sw.	.....	0	0	fair	L. M. Melbourne.
Kittyhawk, North Carolina	30.16	766.1	30.18	766.6	45	7.2	83	e.	14	6.3	.....	0	0	.....	.....	0.58	14.7	clear	E. A. Beals.
Knoxville, Tennessee	29.09	738.9	30.15	765.8	35.3	1.8	100	calm	0	0	.....	.....	fg.	.....	.....	0	0	dense fog	J. A. Cody.
La Crosse, Wisconsin	28.70	729.0	29.52	749.8	48	8.9	71	s.	4	1.8	.....	.....	10 s	.....	.....	0.02	0.5	cloudy	S. C. Emery.
La Mesilla, New Mexico	26.14	663.9	30.09	764.3	38.7	3.7	67	nw.	1	0.4	.....	0	0	.....	.....	0	0	clear	N. D. Lane.
Leavenworth, Kansas	28.84	732.5	29.78	756.4	53	11.7	66	sw.	9	4.0	.....	6 cs	0	.....	.....	0	0	fair	A. W. Browne.
Lewiston, Idaho	29.38	746.2	30.24	768.1	44.5	6.9	64	w	16	7.2	.....	8 cs	0	w.	.....	0	0	cloudy	W. Blake.
Little Rock, Arkansas	29.64	752.8	29.97	761.2	52	11.1	36	s.	8	3.6	.....	0	0	.....	.....	0	0	clear	M. F. Burrows.
Los Angeles, California	29.76	755 9	30.16	766.1	53.2	11.8	86	calm	0	0	.....	.....	10 n	.....	calm	0.06	1.5	light rain	E. F. Kubel.
Louisville, Kentucky	29.40	746.7	29.98	761.5	46	7.8	76	se.	10	4.5	.....	5 cs	0	.....	.....	0	0	fair	H. C. Smith.
Lynchburg, Virginia	29.44	747.8	30.16	766.1	47.5	8.6	72	calm	0	0	.....	.....	10 s	.....	sw.	0	0	cloudy	T. H. Breen.
Madison, Wisconsin	28.48	723.4	29.55	750.6	47	8.3	68	sw.	17	7.6	.....	.....	10 s	.....	sw.	0	0	cloudy	C. A. Shaw.
Marquette, Michigan	28.63	727.2	29.40	746.7	40	4.4	82	sw.	6	2.7	.....	.....	10 s	.....	sw.	inap.	inap.	cloudy	I. Gilligan.
Mason, Texas	28.29	718.6	29.98	761.5	53.3	11.8	69	sw.	3	1.3	.....	0	0	.....	.....	0	0	clear	A. M. Wilson.
Memphis, Tennessee	29.68	753.9	30.03	762.7	50	10.0	86	se.	5	2.2	.....	0	0	.....	.....	0	0	clear	D. T. Flannery.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–01	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers
UNITED STATES.—Cont'd.																			
Milwaukee, Wisconsin	28.78	731.0	29.57	751.1	48	8.9	77	s.	17	7.6			10 s			inap.	inap.	cloudy	W. Line.
Mobile, Alabama	30.12	765.0	30.16	766.1	54	12.2	86	calm	0	0		1 ck	0	nw.		0	0	clear	J. D. Paxton.
Montgomery, Alabama	29.91	759.7	30.15	765.8	48	8.9	93	nw.	1	0.4			fg.			0	0	dense fog	J. B. McLaughlin.
Moorhead, Minnesota	28.69	728.7	29.77	756.1	15	— 9.4	100	n.	20	8.9		0	5 s		w.	0	0	fair	H. Bessant.
Morgantown, W. Virginia	29.08	738.6	30.14	765.5	33.0	0.6	88	calm	0	0		0	fg.			0	0	clear	J. Sprigg, jr.
Mt. Washington, N. H	23.70	602.0	30.22	767.6	15.0	— 9.4	73	sw.	14	6.3		5 cs	0			0	0	fair	J. G. Linsley.
Nashville, Tennessee	29.52	749.8	30.08	764.0	45.0	7.2	83	se.	1	0.4		5 c	0	w.		0	0	fair	L. A. Jesunofsky.
New Haven, Connecticut	30.13	765.3	30.25	768.3	30	— 1.1	67	ne.	8	3.6		9 c	0			0	0	cloudy	J. H. Sherman.
New London, Connecticut	30.22	767.6	30.28	769.1	34	1.1	60	nw.	6	2.7		0	0			0.05	1.3	clear	J. G. Lynch.
New Orleans, Louisiana	30.06	763.5	30.12	765.0	59.9	15.5	50	n	1	0.4		hz.	hz.	calm		0	0	dense haze	A. J. Armstrong.
Newport, Rhode Island	30.20	767.1	30.25	768.3	31.0	— 0.6	62	n.	6	2.7		1 cs	hz.			0.20	5.1	clear	W. McGillivray.
New River, N. Carolina					48	8.9	86	ne.			1		10 s			1.12	28.4	cloudy	C. C. Corbin.
New Shoreham, Rhode I'd	30.22	767.6	30.25	768.3	33.0	0.6	68	ne.	20	8.9		0	0			0.12	3.0	clear	W. Davis.
New York, New York	30.05	763.3	30.23	767.8	35	1.7	69	ne.	13	5.8		2 cs	fg.			inap.	inap.	clear	E. B. Garriott.
Norfolk, Virginia	30.14	765.5	30.17	766.3	45	7.2	76	e.	4	1.8		6 ck	0	nw.		0.07	1.8	fair	J. T. Elker.
North Platte, Nebraska	26.93	684.0	29.99	761.7	42.6	5.9	74	calm	0	0		0	2 s			0	0	clear	E. F. Brady.
Olympia, Washington T'y	30.30	769.6	30.34	770.6	39.0	3.9	89	s.	4	1.8		0	9 s		calm	0.22	5.6	cloudy	J. Dascomb.
Omaha, Nebraska	28.57	725.7	29.82	757.4	48.2	9.0	63	w.	4	1.8		8 cs	0	w.		0	0	cloudy	A. Pollak.
Ooglaamie, Pt. Barrow, Alas.	30.07	763.8	30.09	764.3	— 7.7	—22.1	80	w.	30	13.4		0	3 s			0	0	clear	P. H. Ray.
Oswego, New York	29.75	755.6	30.09	764.3	31.0	— 0.6	62	s.	11	4.9		0	0			0	0	clear	S. W. Beall.
Palestine, Texas	29.46	748.3	30.03	762.7	53.0	11.7	76	s.	16	7.2		0	0			0	0	clear	L. M. Pindell.
Pensacola, Florida	30.12	765.0	30.15	765.8	53.2	11.8	93	nw.	4	1.8		0	4 k		w.	inap.	inap.	fair	M. McGauran,
Philadelphia, Pa	30.12	765.0	30.22	767.6	37	2.8	61	ne.	9	4.0		10 cs	0			inap.	inap.	cloudy	T. F. Townsend.
Pike's Peak, Colorado	17.57	446.3	30.16	766.1	13	—10.6	87	nw.	52	23.2		0	6 s			0	0	fair	L. M. Dey.
Ploche, Nevada	24.15	613.4	30.29	769.4	38	3.3	58	w.	3	1.3		0	0			0	0	clear	C. K. Kitchel.
Pittsburg, Pennsylvania	29.24	742.7	30.09	764.3	37.5	3.1	76	e.	2	0.9		5 ck	0	w.		0	0	fair	J. H. Bryce.
Port Eads, Louisiana	30.14	765.5	30.15	765.8	59.6	15.3	100	nw.	7	3.1		2 c	0	w.		0.11	2.8	clear	H. G. Christian.
Port Huron, Michigan	29.14	740.1	29.86	758.4	37.8	3.2	72	s.	20	8.9		4 c	0			inap.	inap.	fair	W. O. Bailey.
Portland, Maine	30.22	767.6	30.27	768.8	31.0	— 0.6	57	ne.	11	4.9		2 c	0	calm		0	0	clear	D. C. Murphy.
Portland, Oregon	30.30	769.6	30.37	771.4	38.0	3.3	89	calm	0	0		3 cs	0			0	0	clear	M. L. Hearne.
Portsmouth, N. Carolina					53	11.7	80	ne.	27	12.1			10 ks		ne.	0.59	15.0	cloudy	F. P. Chaffee.
Prescott, Arizona	24.83	630.7	30.17	766.3	42	5.6	40	s.	4	1.8		0	0			0	0	clear	J. Mc N. Wright.
Provincetown, Mass	30.22	767.6	30.25	768.3	35	1.7	69	e.	7	3.1		0	0			0.20	5.1	clear	P. T. Jenkins.
Punta Rassa, Florida	30.08	764.0	30.10	764.5	74	23.3	82	s.	14	6.3		10 cs	0	w.		0	0	cloudy	W. J. Evans.
Red Bluff, California	29.77	756.1	30.15	765.8	53.2	11.8	52	nw.	7	3.1		0	0			0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.77	756.1	30.01	762.2	68	20.0	51	s.	3	1.3		5 c	0	calm		0	0	fair	W. H. Taylor.
Rochester, New York	29.37	746.0	30.07	763.8	30	— 1.1	88	s.	7	3.1		0	hz.			c	0	clear	A. T. Sherwood.
Roseburg, Oregon	29.82	757.4	30.38	771.6	43	6.1	83	calm	0	0		0	0			0	0	clear	J. J. Nanry.
Sacramento, California	30.03	762.7	30.11	764.8	57.9	14.4	70	n.	8	3.6		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.18	741.2	29.81	757.2	50.7	10.4	62	s.	18	8.0		6 c	0	w.		0	0	fair	J. H. Webber.
St. Paul, Minnesota	28.63	727.2	29.55	750.6	41.5	5.3	84	w.	6	2.7		6 k	4 ks	w.	w.	0.07	1.8	cloudy	O. S. M. Cone.
St. Vincent, Minnesota	28.87	733.3	29.81	757.2	13	—10.6	100	nw.	23	10.3			10 s		calm	0.03	0.8	cloudy	G. Kingsbury.
Salt Lake City, Utah	25.73	653.5	30.25	768.3	43	6.1	53	calm	0	0		0	0			0	0	clear	J. Craig.
San Antonio, Texas	29.32	744.7	30.04	763.0	49.6	9.8	93	calm	0	0		0	0			0	0	clear	E. Lane.
San Diego, California	30.06	763.5	30.13	765.3	55.0	12.8	80	e.	6	2.7			10 s			0	0	cloudy	A. C. Dobbins.
Sandusky, Ohio	29.22	742.2	29.94	760.5	39.8	4.3	65	sw.	16	7.2		5 c	0	s.		0	0	fair	M. H. Perry.
Sandy Hook, New Jersey	30.18	766.6	30.22	767.6	38.0	3.3	72	ne.	16	7.2		7 c	0	calm		0.10	2.5	fair	B. A. Blundon.
San Francisco, California	30.06	763.5	30.13	765.3	55	12.8	83	ne.	3	1.3		0	fg.			0	0	clear	N. Gorom.
Santa Fé, New Mexico	23.19	589.0	30.17	766.3	46	7.8	29	n.	11	4.9		0	0			0	0	clear	H. N. Jones.
Savannah, Georgia	30.03	762.7	30.12	765.0	57	13.9	72	w.	4	1.8		1 cs	0			0.07	1.8	clear	H. M. Ford.
Shreveport, Louisiana	29.78	756.4	30.03	762.7	50	10.0	86	s.	2	0.9		0	0			0	0	clear	E. N. Meekins.
Silver City, New Mexico	24.30	617.2	30.08	764.0	36	2.2	53	nw.	6	2.7		0	0			0	0	clear	J. B. Wallace.
Sitka, Alaska	29.96	761.0	30.02	762.5	27	— 2.8	88	e.	6	2.7			10 s		calm	0	0	threatening	J. J. McLean.
Smithville, North Carolina	30.07	763.8	30.11	764.8	53	11.7	100	ne.	9	4.0			10 n		ne.	0.93	23.6	light rain	J. C. Rickli.
Spokane Falls, Wash. Ter.	28.11	714.0	30.24	768.1	34	1.1	71	s.	9	4.0			10 s		sw.	0	0	cloudy	D. Moore.
Springfield, Illinois	29.03	737.3	29.78	755.6	46.5	8.1	65	s.	18	8.0		2 c	4 s	w.	w.	0	0	fair	T. B. Jennings.
Springfield, Massachusetts	30.14	765.5	30.28	769.1	33.0	0.6	60	n.	2	0.9		5 c	0			0	0	fair	T. S. Outram.
Springfield, Mo	28.35	720.1	29.91	759.7	47	8.3	86	s.	12	5.4		6 c	0	w.		0	0	fair	J. B. Marbury.
Stockton, Texas	26.94	684.3	30.02	762.5	55.0	12.8	37	sw.	16	7.2		0	0			0	0	clear	J. O'Dowd.
Thatcher's Island, Mass	30.14	765.5	30.20	767.1	31.0	— 0.6	78	e.	11	4.9		0	0			0.01	0.3	clear	G. Liebmann.
Toledo, Ohio	29.18	741.2	29.90	759.4	42.5	5.8	62	sw.	12	5.4		6 cs	0	w.		0	0	fair	A. Buell.
Tucson, Arizona	27.64	702.0	30.10	764.5	47	8.3	71	se.	2	0.9		0	0			0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.96	761.0	30.34	770.6	42.0	5.6	50	sw.	17	7.6		10 cs	0	nw.		0	0	cloudy	R. P. Sibley.
Uvalde, Texas	29.04	737.6	30.02	762.5	48	8.9	93	e.	4	1.8		0	0			0	0	clear	E. C. Imlay.
Vicksburg, Mississippi	29.82	757.4	30.08	764.0	49	9.4	77	se.	8	3.6		0	0			0	0	clear	T. J. Kenan.
Visalia, California	29.70	754.4	30.08	764.0	57.7	14.3	68	s.	2	0.9		4 k	0			0	0	fair	J. T. Cochran.
Washington, D. C	30.10	764.5	30.22	767.6	36	2.2	79	ne.	2	0.9		4 c	0	nw.		inap.	inap.	fair	B. M. Pursell.
West Las Animas, Colorado	25.87	657.1	29.95	760.7	40	4.4	42	calm	0	0		0	8 s		nw.	0	0	cloudy	J. Grover.
Wickenburg, Arizona					43	6.1	68	calm			0	0	0			0	0	clear	H. A. Kremp.
Williamsport, Pa	29.56	750.8	30.19	766.6	31.8	— 0.1	68	ne.	2	0.9		0	hz.			0	0	clear	B. F. Hough.
Wilmington, N. Carolina	30.06	763.5	30.12	765.0	53	11.7	93	e.	1	0.4			10 s		se.	0.18	4.6	cloudy	S. A. Haney.
Winnemucca, Nevada	25.78	654.8	30.28	769.1	31	— 0.6	88	s.	6	2.7		0	0			0	0	clear	J. R. Williams.
Yankton, Dakota	28.41	721.6	29.80	756.9	48	8.9	66	n.	17	7.6		10 ck	0	s.		0	0	cloudy	J. H. Attfield.
Yuma, Arizona	29.86	758.4	30.01	762.2	55.7	13.2	56	e.	2	0.9		0	0			0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.06	560.3			53.5	11.9	79	nw.	12	5.4		1 k	6 ks; s			0.74	18.8	fair	Joaquin Gomez.
Bridgetown, Barbados, W. I.	30.07	763.8	30.08	764.0	79	26.1	86	ne.				5 k	5 ks	se.	se.	0.50	12.7	cloudy	J. A. Racker.
Buenaventura, U. S. C	30.07	763.8	30.09	764.3	76	24.4	95	s.	4	1.8		0	0 n		s.	0.01	0.3	drizzling	J. I. Plume.
Guadeloupe, W. I	30.01	762.2	30.03	762.7	76	24.4	87	ne.				5 k	5 ks			1.220	31.0	hazy	B. Bigar.
Havana, Cuba, W. I	30.12	765 0	30.17	766.3	77	25.0	85	calm	0	0		8 cs	0	calm		0	0	cloudy	A. Van Caneghem.
Kingston, Jamaica, W. I	30.13	765.3	30.14	765.5	74.0	23.3	77	calm	0	0		0	0			0	0		Robert Johnston.
Nassau	30.16	766.1	30.24	768.1	76.5	24.7	72	ne.	5	2.2		5 k	2 s	e.	ne.	0	0		F. M. Everett.
Paramaribo, S. A	30.04	763.0	30.04	763.0	78	25.6	86	e.			3	0	5 k		e.	0	0	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.55	750.6	30.01	762.2	81	27.2	87	calm			0		9 ks		calm	0	0	hazy	Miss Flora A. Nichols.
Rivas							98	ne.			2	0	2 k		ne.	0	0	clear	Robert Mason.
Santiago de Cuba, W. I	30.12	765.0	30.14	765.5	75	23.9	76	n.	3.6	1.6		1 c	2 ks		n.	0	0	fair	
York Factory, B. A	30.19	766.8	30.25	768.3	—14.0	—25.6	73	e.	12	5.4		1 c	0	se.		0	0	fair	W. Wood.

STATIONS AND VESSELS.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.			Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Amount and kind.		Direction.						
									Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	Force.	0–10	0–10	From.	From.	Inch.	Mill.			
BRITISH NAVAL.																		
H. M. S. Agincourt, N. 38° 53′, E. 9° 01′	29.87	758.7	52	11.1	93	nw.			3		10							raining.
H. M. S. Alert, S. 5° 39′, E. 53° 36′	29.81	757.2	84	28.9	81	w.			1–2		7							d. clouds.
H. M. S. Alexandra, Naples, Italy	29.88	758.9	59	15.0	60	ne.			4–6		8	ne.						squally.
H. M. S. Bacchante, Jaffa Roads, Egypt	29.86	758.4	67	19.4	60	nnw.			2		3	nnw.			2	nw.		d. clouds.
H. M. S. Boadicea, S. 34° 11′, E. 18° 26′	29.96	761.0	71	21.7	75	se.			1		10							showery.
H. M. S. Comus, N. 5° 25′, E. 124° 10′	29.90	759.4	82	27.8	97	se.			1–2		6	s.			4	ne.		squally.
H. M. S. Daring, N. 14° 54′, E. 119° 42′	29.94	760.5	81	27.2		nnw.			2		0				r	n.		blue sky.
H. M. S. Diamond, S. 35° 02′, E. 117° 50′	30.28	769.1	64	17.8	83	calm			0		0							blue sky.
H. M. S. Dido, N. 17° 00′, W. 61° 45′	30.16	766.1	76	24.4		e.			1–3		5	ne.						squally.
H. M. S. Druid, N. 18° 11′, W. 76° 27′	30.14	765.5	75	23.9	95	sse.			1		4	e.						d. clouds.
H. M. S. Eclipse, S. 15° 43′, E. 46° 20′	29.90	759.4	84	28.9		ssw.			1		3							d. clouds.
H. M. S. Euryalus, N. 12° 40′ E. 47° 28′	29.81	757.2	80	26.7	82	e.			3–4		0				1	ene.		blue sky.
H. M. S. Fawn, N. 15° 04′, E. 42° 14′	29.71	754.6	81.5	27.5	78	calm			0		6				1	nw.		d. clouds.
H. M. S. Flying Fish, N. 34° 41′, E. 135° 12′	30.21	767.3	50	10.0	93	calm			0		6							misty.
H. M. S. Gannet, S. 33° 01′, W. 71° 37′	30.07	763.8	60	15.6	82	calm			0		1							misty.
H. M. S. Garnet, Montevideo, Uruguay	30.08	764.0	61	16.1	67	n.			3		0							blue sky.
H. M. S. Griffon, N. 22° 43′, W. 74° 16′	30.20	767.1	76	24.4	76	e.			4		7	e.			3	ene.		d. clouds.
H. M. S. Inconstant, S. 24° 10′, E. 64° 00′	30.04	763.0	77	25.0	90	e.			3		3	ene.			3	ene.		d. clouds.
H. M. S. Iris, N. 32° 36′, E. 31° 52′	29.87	758.7	65	18.3	83	w.			1–2		10				1	wsw		showery.
H. M. S. Iron Duke, N. 22° 16′, E. 114° 10′	30.08	764.0	64	17.8	89	ne.			1		3	ne.						d. clouds.
H. M. S. Lark, S. 16° 54′, E. 161° 33′	29.92	760.0	82.3	27.9		e.			4		2				4	e.		d. clouds.
H. M. S. Liffey, Coquimbo, Chili	30.00	762.0	61	16.1		calm			0		4							d. clouds.
H. M. S. Magpie, N. 30° 50′, E. 129° 00′	30.25	768.3	58.4	14.7	66	nne.			1		2	wnw.			1	nw.		d. clouds.
H. M. S. Malabar, N. 18° 49′, E. 72° 47′	29.79	756.7	83	28.3	87	nw.			3–4		1	nw.			sm'h			blue sky.
H. M. S. Orontes, N. 31° 50′ E. 31° 40′	29.87	758.7	66.5	19.2	91	ne.			2		8							d. clouds.
H. M. S. Rambler, St. Paul de Loando. Benguela	29.84	757.9	80	26.7		wnw.			2		2	calm						d. clouds.
H. M. S. Ready, Muscat. Arabia	29.87	758.7	74.1	23.4		se.			1		2							d. clouds.
H. M. S. Rocket, Vancouver Id., B. C.	30.22	767.6	40	4.4	82	wsw.			2–4		9	wnw.						d. clouds.
H. M. S. Sea Gull, S. 4° 37′, E. 55° 27′	30.21	767.3	83	28.3	87	calm			0									
H. M. S. Serapis, N. 32° 20′ E. 28° 55′	29.85	758.2	65	18.3	94	ese.			3		6	ese.			2	ese.		d. clouds.
H. M. S. Tamar, N. 36° 06′ W. 5° 31′	30.17	766.3	64.5	18.1	48	calm			0		1							blue sky.
H. M. S. Thalia, S. 34° 49′, W. 10° 23′	30.02	762.5	68	20.0		ssw.			3		1				3	nnw.		blue sky.
H. M. S. Triumph, Valparaiso, Chili	30.10	764.5	61	16.1	82	calm			0		2	calm						d. clouds.
H. M. S. Tyne, N. 6° 41′, E. 109° 29′	30.31?	769.9?	80.5	26.9	100	e.			1		5	calm			2	nnw.		d. clouds.
PORTUGUESE NAVAL.																		
Quanza, St. Vicent, Cape Verde Islands	30.11	764.7	73.4	23.0	74	ne.			3		0				2	ne.		blue sky.
Rio Lima, Porto Praya, Cape Verde Islands	30.10	764.6	75.9	24.4	76	ne.			2		4		ne.		1			d. clouds.
Tamega, Macao, China	30.08	764.1	67.1	19.5	84	calm			0		8			3 h'r	3 h'r			d. clouds.
SWEDISH NAVAL.																		
Balder, N. 33° 34′ W. 76° 20′	30.04	763.0	63.0	17.2	96	ne.			4		7							misty.
UNITED STATES NAVAL.																		
Navy Yard, Pensacola, Fla	30.12	765.0	56	13.3	87	nnw.	2	0.9			5		nw.	0	0			fair.
Navy Yard, Portsmouth, N. H.	30.27	768.8	27	— 2.8	?	ne.	7	3.1			2		ne.	0	0			clear.
Naval Hospital, Yokohama, Japan	29.94	760.5	47.5	8.6	74	calm			0		0			slt	slt			clear.
Adams, S. 5° 11′ W. 81° 25′	29.81	757.2	69	20.6	90	ene.			2		2					sm'h		clear.
Alaska, Mollendo, Peru	30.04	763.0	66	18.9	84	calm			0		0			0	0	long		clear.
Alert, N. 23° 01′, E. 117° 04′*	29.95	760.7	67	19.4	84	ene.			3		5		ene.	0	0	long	ene.	fair.
Alliance, N. 9° 40′ W. 80° 10′	29.96	761.0	79	26.1	86	nne.			3		5		nne.	0	0	sm'h		fair.
Ashuelot, Nagasaki, Japan	30.25	768.3	48	8.9	85	w.			1		5		nw.					fair.
Brooklyn, Montevideo, Uruguay	30.05	763.3	62	16.7	77	nw.	12	5.4			0			0	0	light	w.	clear.
Colorado, New York, N. Y.	30.21	767.3	36	2.2	70	ne.	5	2.2			2		calm	0	0			hazy.
Enterprise, N. 17° 10′ W. 68° 10′*	30.14	765.5	76	24.4	82	ene.			3		2					mod.	e.	clear.
Essex, Monrovia Liberia, Africa	29.96	761.0	82	27.8	79	n.			2		2		n.			sm'h	nw.	clear.
Franklin, Norfolk, Va.	30.17	766.3	45	7 2	92	se.	6	2.7			5		w.	0.9	23.			fair.
Galena, Palermo, Sicily	29.76	755.9	59	15.0	100	ene.			6		10		ne.			mod.	se.	cloudy.
Independence, Navy Yard, Mare Island, Cal.	29.97	761.2	54	12.2	93	calm			0		0			0	0			clear.
Kearsarge, Kingston, Jamaica, W. I.	30.16	766.1	76	24.4	73	calm			0		0					sm'h		clear.
Lackawanna, Callao, Peru†	30.12	765.0	68	20.0	90	calm			0		2		s.					clear.
Lancaster, N. 37° 28′, E. 17° 23′*	29.73	755.1	60	15.6	88	ene.			5–6		10		ne.			mod.		cloudy.
Marion, S. 33° 54′, E. 18° 24′*	29.96	761.0	70	21.1	95	s.			2		10		calm	light	light	sm'h		rainy.
Michigan, Erie, Pa.	29.89	759.2	38	3.3	90	sw.			3		2		w.					clear.
Minnesota, Newport, R. I.	30.27	768.8	32	0.0		nne.	5	2.2			0							clear.
Monocacy, Kobe, Japan	30.25	768.3	52	11.1	66	calm			0		5							fair.
New Hampshire. Newport. R. I.	30.21	767.3	35	1.7	70	nne.			3		0					sm'h		clear.
Nipsic, Barcelona, Spain	30.14	765.5	60	15.6	60	ssw.			3		2					sm'h		clear.
Onward, Callao, Peru†	30.12	765.0	66	18.9	94	calm			0		2		n.			long	w.	clear.
Palos, Kobe, Japan	30.27	768.8	47	8.3	85	calm			0		0							clear.
Passaic, Washington, D. C.	30.24	768.1	34	1.1	100	ne.			1		0							clear.
Pensacola. Callao, Peru	30.05	763.3	67	19.4	89	sse.	2	0.9			2			0	0	sm'h		clear.
Portsmouth, Norfolk, Va.	30.14	765.5	43	6.1	100	e.			2		5		sw.					fair.
Powhatan, N. 10° 16′, W. 61° 38′	30.11	764.8	77	25.0	82	ene.			2		2							clear.
Quinnebaug, Naples, Italy	29.83	757.7	60	15.6	50	nne.			5		8		calm			sm'h		cloudy.
Ranger, N. 17° 04′ W. 100° 43′*	29.96	761.0	77	25.0	86	e.			2		2		calm	0	0	sm'h		clear.
Richmond, Kobe Japan*	30.18	766.6	53	11.7	73	e.			1		0			0	0			clear.
Shenandoah, Curacoa, W. I*	30.15	765.8	78	25.6	78	ne.			3		5		ne.			sm'h		fair.
St. Louis, League Island, Pa.	30.43	772.9	35	1.7	70	ne.	5	2.2			8			0	0			cloudy.
Swatara, Kobe, Japan*	30.08	764.0	55	12.8	62	calm			0		2		calm			sm'h		fair.
Tennessee, New Orleans, La.	30.11	764.8	56	13.3	100	sw.	3	1.3			5			0	0			hazy.
Vandalia, Port Royal, S. C.	30.32	770.1	56	13.3	87	w.			1		2		calm					clear.
Wabash, Boston, Mass.	30.24	768.1	33	0.6	89	n.	2	0.9			0			0	0			clear.
Wachusetts, Sitka, Alaska	29.85	758.2	27	— 2.8		ene.			1		10		calm			long	e.	overcast.
Wyoming, Port Royal, S. C.	30.10	764.5	55	12.8	87	nw.	3	1.3			2		w.	0.07	1.8			clear.
Yantic, N. 22° 35′ W. 93° 16′*	30.02	762.5	76	24.4	91	ene.			2		5					mod.	ne.	fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Nova Scotia, N. 46° 02′, W. 38° 59′	30.29	769.4	55	12.8	.....	ssw.	.....	.....	4	.....	10	.....	s.	.....	.....	con.	w.	cloudy.
S. S. Peruvian, Portland, Me*	29.98	761.5	33	0.6	.....	e.	.....	.....	3	.....	2	.....	se.	0	0	.....	.....	clear.
S. S. Prussian, Greenock, Scotland*	29.25	742.9	42	5.6	.....	wsw.	.....	.....	6	.....	8	.....	sw.	12 h'r	12 h'r	.....	.....	fair.
S. S. Waldensian, N. 50° 21′, W. 25° 16′ *	30.28	769.1	49	9.4	.....	w.	.....	.....	6	.....	2	.....	wnw.	7 h'r	7 h'r	con.	w.	clear.
AMERICAN STEAMSHIP COMPANY.																		
S. S. British Crown, Mersey River, England†	30.77	781.5	48	8.9	.....	wsw.	.....	.....	4	.....	8	.....	w.	2 h'r	2 h'r	.....	.....	fine.
S. S. Illinois, N. 43° 15′, W. 42° 11′	30.39	771.9	58	14.4	94	sw.	.....	.....	4	.....	2	.....	sw.	.....	.....	sm'h	sw.	fine.
S. S. Indiana, Liverpool, England†	30.17	766.3	54	12.2	74	w.	.....	.....	1	.....	5?	.....	w.	light	light	.....	.....	cloudy.†
S. S. Ohio, Philadelphia, Penn	.....	.....	41	5.0	91	ne.	.....	.....	4	.....	0	.....	.....	.....	.....	.....	.....	clear.
S. S. Pennsylvania, N. 39° 53′, W. 56° 35′†	30.10	764.5	56	13.3	93	ne.	.....	.....	4	.....	10	.....	ne.	.....	.....	mod.	.....	d. clouds.
ANCHOR LINE.																		
S. S. Assyria, N. 41° 22′, W. 39° 47′*†	30.62	777.7	55	12.8	.....	wsw.	.....	.....	4	.....	5	.....	wsw.	0	0	mod.	w.	fine.
S. S. Devonia, N. 51° 00′ W. 36° 28′†	30.35	770.9	48	8.9	.....	nw.	.....	.....	3	.....	6	.....	nw.	.....	.....	mod.	w.	fine.
S. S. Galatia, N. 44° 47′, W. 42° 39′†	30.45	773.4	.....	.....	.....	ssw.	.....	.....	4	.....	7	.....	ssw.	0	0	mod.	sw.	cloudy.
S. S. Utopia, N. 37° 49′, W. 70° 13′*†	30.12	765.0	53	11.7	73	ne.	.....	.....	4	.....	6	.....	n.	16 h'r	16 h'r	mod.	sw.	cloudy.
ATLAS LINE.																		
S. S. Alisa, Colon, U. S. C†	30.18	766.6	78	25.6	86	ne.	.....	.....	2	.....	0	.....	.....	0	0	.....	.....	fine.
S. S. Arden, N. 15° 18′, W. 68° 24′	.....	.....	.....	.....	.....	ene.	.....	.....	1	.....	2	.....	ene.	.....	.....	sm'h	ene.	fine.
S. S. Athos, N. 18° 16′, W. 67° 50′	29.68	753.9	.....	.....	.....	ne.	.....	.....	4	.....	5	.....	ene.	1 h'r	1 h'r	r'gh	ne.	fine.
BOSTON AND HALIFAX LINE.																		
S. S. Carroll, N. 43° 08′ W. 66° 01′†	30.14	765.5	44	6.7	52	ssw.	.....	.....	.....	.....	.....	.....	.....	0	0	long	se.	cloudy.
BRITISH METEOROLOGICAL OFFICE.																		
S. Auckland, N. 44° 02′, W. 22° 36′	30.41	772.4	54	12.2	.....	nnw.	.....	.....	3	.....	8	.....	.....	.....	.....	.....	.....	overcast.
S. Baroda, S. 11° 25′, E. 81° 59′	29.81	757.2	82.0	27.8	89	e.	.....	.....	4	.....	7	.....	.....	.....	.....	.....	.....	showery.
British Merchant, N. 8° 41′, E. 89° 33′	29.86	758.4	83.8	28.8	83	e.	.....	.....	3	.....	2	.....	.....	.....	.....	.....	.....	misty.
Bk. Caldew, N. 36° 56′, W. 35° 20′	30.46	773.7	57.2	14.0	.....	nne.	.....	.....	0	.....	3	.....	.....	.....	.....	.....	.....	d. clouds.
S. S. Cipero, N. 44° 22′, W. 14° 34′	30.29	769.4	63.7	17.6	75	wsw.	.....	.....	2	.....	7	.....	.....	.....	.....	2	nw.	d. clouds.
Bk. Commewyne, N. 38° 01′, W. 44° 58′	30.55	776.0	59.4	15.2	57	ese.	.....	.....	3	.....	0	.....	.....	.....	.....	.....	.....	d. clouds.
S. S. Hermine, S. 0° 50′, W. 27° 18′	30.01	762.2	73.7	23.2	?	nw.	.....	.....	2	.....	10	.....	.....	.....	.....	.....	.....	heavy rain.
S. Lochee, Pentland Firth, Scotland	29.39	746.5	45	7.2	80	var.	.....	.....	1	.....	8	.....	.....	.....	.....	.....	.....	drizzling.
BRISTOL LINE.																		
S. S. Brooklyn City, N. 48° 02′, W. 24° 56′*†	30.35	770.9	56	13.3	.....	nw.	.....	.....	6	.....	6	.....	w.	0	0	h'vy	w.	fine.
CROMWELL LINE.																		
S. S. New Orleans, N. 30° 04′ W. 80° 30′*†	30.18	766.6	65	18.3	.....	w.	.....	.....	.....	.....	10	.....	sw.	.....	.....	sm'h	.....	smoky.
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. Canada, N. 40° 26′, W. 69° 35′	30.11	764.9	50.0	10.0	.....	ne.	.....	.....	3	.....	0	.....	.....	4 h'r	4 h'r	.....	nw.	clear.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Bohemia, N. 41° 33′, W. 49° 32′.*†	30.20	767.1	.....	.....	.....	ssw	.....	.....	6	.....	8	.....	ssw.	2 h'r	2 h'r	cross	ssw.	misty.
S. S. Lessing, N. 48° 04′ W. 23° 21′*	30.22	767.6	55	12.8	.....	w.	.....	.....	6	.....	5	.....	wsw.	4 h'r	4 h'r	mod.	w.	
S. S. Silesia, Hamburg, Germany.*†	29.87	758.7	49.6	9.8	.....	w.	.....	.....	5	.....	10	.....	w.	12 h'r	12 h'r	.....	.....	raining.
JOHNSTON LINE.																		
S. S. Thanemore, N. 37° 03′, W. 73° 21′	30.16	766.1	.....	.....	.....	nne.	.....	.....	3	.....	1	.....	ne.	0	0	slight	ssw.	clear.
LEYLAND LINE.																		
S. S. Iberian, N. 49° 44′, W. 27° 52′	.....	.....	.....	.....	.....	wnw.	.....	.....	3	.....	8	.....	wnw.	0	0	mod.	wnw.	
MALLORY LINE.																		
S. S. Colorado, New York, N.Y.†	30.23	767.8	34	1.1	.....	ne.	.....	.....	3	.....	.....	.....	.....	2 h'r	2 h'r	.....	.....	foggy.
MERCHANTS' EXPRESS LINE.																		
S. S. Freja, N. 49° 49′, W. 4° 58′†	30.10	764.5	54	12.2	93	sw.	.....	.....	6	.....	10	.....	sw.	6 h'r	6 h'r	mod.	sw.	squally.
S. S. Hermod, Havre, France.*†	29.28	743.7	55.4	13.0	.....	w.	.....	.....	2	.....	3	.....	w.	0	0	.....	.....	fair.
NATIONAL LINE.																		
S. S. England, N. 41° 41′, W. 47° 57′ *†	30.28	769.1	.....	.....	.....	ssw.	.....	.....	5	.....	10	.....	ssw.	0	0	light	sw.	overcast.
S. S. Erin, N. 41° 07′, W. 48° 46′	30.13	765.3	58	14.4	.....	ssw.	.....	.....	7	.....	10	.....	sw.	6 h'r	6 h'r	cross	sw.	overcast.
S. S. Italy, N. 51° 24′, W. 10° 30′	29.98	761.5	.....	.....	.....	w.	.....	.....	6	.....	2	.....	w.	0	0	long	w.	clear.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Santiago, N. 37° 04′, W. 74° 09′†	30.12	765.0	57	13.9	.....	sw.	.....	.....	3	.....	7	.....	ssw.	1 h'r	1 h'r	long	s.	fine.
NEW YORK, HAVANA AND MEXICAN MAIL.																		
S. S City of Alexandria, N. 22° 41′, W. 84° 45′*†	30.21	767.3	75	23.9	.....	ene.	.....	.....	2	.....	3	.....	ese.	0	0	sm'h	.....	hazy.
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Alvena, Kingston, Jamaica, W. I*†	29.95	760.7	73	22.8	.....	calm	.....	.....	0	.....	.....	.....	.....	.....	.....	.....	.....	clear.
S. S. Atlas, N. 10° 50′, W. 83° 30′.*†	30.16	766.1	76	24.4	.....	sw.	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	ne.	hazy.
S. S. Bothnia, N. 40° 32′, W. 70° 03′	30.24	768.1	50	10.0	.....	var.	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	s.	clear.
S. S. Lepanto, N. 49° 30′ W. 13° 10′*	30.03	762.7	48	8.9	.....	w.	.....	.....	7	.....	.....	.....	.....	.....	.....	.....	w.	squally.
S. S. Olbers, S. 19° 22′ W. 38° 40′*†	30.10	764.5	79	26.1	.....	ssw.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	sse.	rainy.
NORTH GERMAN LLOYD																		
S. S. Hermann, N. 51° 31′, W. 0° 49′*†	30.16	766.1	53.6	12.0	.....	wnw.	.....	.....	5	.....	6	.....	wnw.	3 h'r	3 h'r	mod.	w.	fair.
S. S. Hohenzollern, S. 28° 16′, W. 45° 08′*	30.20	767.1	73.6	23.1	.....	ne.	.....	.....	2-3	.....	1	.....	ne.	0	0	3	ne.	clear.
S. S. Koln, N. 44° 35′, W. 39° 37′*	30.35	770.9	61.0	16.1	77	sw.	.....	.....	3	.....	8	.....	sw.	0	0	long	sw.	cloudy.
S. S. Kronprinz F. Wilhelm, N. 40° 57′ W. 55° 26′	30.07	763.8	59 0	15.0	.....	n.	.....	.....	5-6	.....	10	.....	nnw.	10 h'r	10 h'r	5-6	ssw.	cloudy.
S. S. Leipzig, N. 41° 15′, W. 59° 29′	30.13	765.3	45.0	7.2	76	nne.	.....	.....	4	.....	10	.....	nne.	9 h'r	9 h'r	long	ssw.	cloudy.
S. S. Main, N. 49° 53′, W. 7° 40′*	30.08	764.0	57.2	14.0	.....	w.	.....	.....	3-4	.....	10	.....	w.	rain	rain	sm'h	sw.	rainy.
S. S. Mosel, N. 43° 03′ W. 47° 56′	30.17	766.3	54.5	12.5	.....	ssw.	.....	.....	7	.....	10	.....	ssw.	¾ h'r	¾ h'r	r'gh	ssw.	foggy.
S. S. Neckar, N. 41° 51′, W. 47° 45′	30.28	769 1	53.6	12.0	.....	ssw.	.....	.....	5	.....	10	.....	sw.	0	0	sm'h	.....	threatening.
S. S. Nurnburg, N. 29° 50′, W. 15° 30′*	30.14	765.5	64.4	18.0	76	ne.	.....	.....	5	.....	0	.....	.....	1 h'r	1 h'r	5	ne.	clear.
S. S. Oder, N. 52° 03′, E. 2° 37′	30.00	762.0	67.8	19.9	.....	w.	.....	.....	3	.....	4?	.....	wsw.	0	0	mod.	w.	cloudy ?
S. S. Ohio, N. 39° 51′, W. 23° 54′	30.41	772.4	.....	.....	.....	sw.	.....	.....	2	.....	3	.....	sw.	0	0	sm'h	nw.	fair.
S. S. Salier, N 48° 17′, W 28° 00′	30.40	772.1	48.2	9.0	.....	wnw.	.....	.....	6	.....	5	.....	w.	1 h'r	1 h'r	long	w.	fair.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Belgic, N. 44° 02′ W. 178° 01′†	29.98	761.5	47	8.3	77	wnw.	.....	.....	5	.....	8	.....	nw.	0	0	mod.	con.	cloudy.
S. S. Gaelic, N. 22° 13′, E. 114° 51′†	30.00	762.0	65	18.3	89	ene.	.....	.....	2	.....	10	.....	ne.	.....	.....	sm'h	ene.	cloudy.
S. S. Oceanic, N. 35° 22′ W. 176° 08′*	30.20	767.1	60	15.6	94	w.	.....	.....	4	.....	3	.....	sw.	.....	.....	3	nw.	fine.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, New York, N. Y.†	30.25	768.3	.....	.....	.....	n.	.....	.....	3	.....	4	.....	ne.	0	0	.....	.....	clear.
S. S. Seminole, Savannah, Ga†	30.12	765.0	50	10.0	72	nw.	.....	.....	3	.....	1	.....	nw.	10 h'r	10 h'r	.....	.....	clear.
OREGON IMPROVEMENT COMPANY.																		
S. S. Willamette, N. 39° 24′, W. 124° 20′*†	30.24	768.1	48	8.9	85	nnw.	.....	.....	6	.....	2	.....	nnw.	0	0	r'gh	nnw.	d. clouds.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Oregon, San Francisco, Cal.†	30.09	764.3	54	12.2	87	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	fine.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, N. 33° 43′, W. 118° 17′†	30.10	764.5	54	12.2	93	e.	.....	.....	1	.....	10	.....	sw.	.....	.....	sm'h	w.	foggy.
S. S. Geo. W. Elder, Seattle, Wash. T†	30.21	767.3	46	7.8	.....	se.	.....	.....	4	.....	4	.....	se.	0	0	.....	.....	clear.
S. S. Idaho, San Francisco, Cal.†	30.12	765.0	55	12.8	87	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	clear.
S. S. State of California, Portland, Oregon.†	30.35	770.9	38	3.3	90	nw.	.....	.....	2	.....	5?	.....	nw.	.....	.....	.....	.....	cloudy.†
S. S. Victoria, N. 49° 07′, W. 123° 12′†	30.24	768.0	46	7.8	47	w.	.....	.....	2	.....	0	.....	.....	.....	.....	sm'h	.....	clear.
PACIFIC MAIL STEAMSHIP CO.																		
S. S. Australia, Sydney, N. S. W.	29.80	756.9	69	20.6	95	ne.	.....	.....	2	.....	8	.....	n.	0	0	.....	.....	cloudy.
S. S. City of New York, S 18° —′, W. 172° —′†	29.83	757.7	80	26.7	78	e.	.....	.....	3	.....	9	.....	.....	h'vy	h'vy	sm'h	ne.	cloudy.
S. S. City of Pekin, N. 7° 13′, W. 80° 10′†	29.99	761.7	74	23.3	90	nne.	.....	.....	4	.....	2	.....	ne.	0	0	sm'h	.....	fair.
S. S. City of Rio de Janeiro, N. 31° 24′, W. 117° 36′†	30.35	770.9	59	15.0	65	nw.	.....	.....	4	.....	0	.....	.....	0	0	long	se.	clear.
S. S. City of Sydney, S. 31° 17′, E. 179° 30′†	30.11	764.8	68	20.0	79	ese.	.....	.....	4	.....	5	.....	ne.	0	0	mod.	ne.	cloudy.
S. S. Clyde, N. 16° 37′, W. 90° 04′†	30.01	762.2	80	26.7	82	ene.	.....	.....	2	.....	5	.....	ne.	0	0	light	sw.	clear.
S. S South Carolina, Acajutla, San Salvador, C. A.†	30.15	765.8	84	28.9	69	var.	.....	.....	1	.....	8	.....	se.	0	0	light	sw.	cloudy.
QUEBEC STEAMSHIP COMPANY.																		
S. S. Muriel, N. 35° 05′, W. 69° 15′	.....	.....	.....	.....	.....	n.	.....	.....	3	.....	5	.....	.....	0	0	r'gh	sw.	squally.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.			Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Amount and kind.		Direction.				Character.	Direction from.	
								Force.	Upper.	Lower.	Upper.	Lower.					
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	From.	From.	Inch.	Mill.			
RED STAR LINE.																	
S. S. Rhyniand, N. 40° 43′ W. 47° 45′	30.37	771 4	54	12.2	80	sw.			6		10		sw.		0	0	mod.	sw.	cloudy.
S. S. Switzerland, N 41° 09′, W. 47° 02′†	30.38	771.6				s.			4		10		sw.		0	0	mod.	s.	cloudy.
S. S. Waesland, N. 48° 39′ W. 18° 22′	30.22	767.6	49	9.4		wnw.			6		2		wnw.		1 h'r	1 h'r	mod.	nw.	cloudy.
ROTTERDAM LINE.																	
S. S. Schiedam, N. 49° 47′, W. 8° 24′*	29.98	761.5	62.2	16.8	97	wsw.			6		8		wsw.		2 h'r	2 h'r	r'gh	wsw.	cloudy.
S. S. W. A. Scholten, N. 45° 53′, W. 37° 45′*	30.34	770.6	57.2	14.0	81	sw.			4		6		wnw.		0	0	high	w.	
THINGVALLA LINE.																	
S. S. Thingvalla, Copenhagen, Denmark†	29.73	755.1	47.3	8.5		nw.			2		8		nw.		6 h'r	6 h'r			covered.
WARREN LINE.																	
S. S. Iowa, N. 48° 56′, W. 25° 01′*†	30.36	771.1	48	8.9		w.			6		2		w.		0	0	hv'y	w.	clear.
WHITE STAR LINE.																	
S. S. Adriatic, N. 41° 08′, W. 53° 38†*	30.12	765.0	54	12.2		sw.			7		10		w.		hv'y	hv'y	high	sw.	raining.
S. S. Celtic, N. 43° 20′ W. 45° 54′†	30.28	769.1	54	12.2	100	sw.			6		10		w.		0	0	mod.	wsw.	cloudy.
WILSON LINE.																	
S. S. Otranto,, N. 42° 05′, W. 49° 09′†	30.24	768.1	50	10.0		ssw.			6		10		ssw.		4 h'r	4 h'r	mod.	sw.	cloudy.
S. S. Romano, Hull, Eng*†	29.76	755.9	54	12.2		sw.			3		10				0	0			overcast.
S. S. Salerno, N. 49° 00′ W. 15° 55′†	30.16	766.1	66	18.9		w.			6		4		w.				mod.	w.	fair.
WINSOR LINE.																	
S. S. Catherine Whiting, Philadelphia, Pa.†	30.23	767.8				nne.			3				n.						
MISCELLANEOUS.																	
Sch. Addie Fuller, Cedar Keys, Florida†	30.22	767.6	65	18.3	84	n.			2		10 s				0.16	4.1			cloudy.
Bk. Adelaide, Rio de Janeiro, Brazil*†	30.20	767.1	84	28.9		calm			0						0	0			clear.
Bk. Aureola, N. 36° 02′, W. 54° 14′*†	30.58	776.7	70	21.1		ssw.			6		10		sw.		0	0	hv'y	ssw.	threatening
Schr. Annie M. Smull, S. 37° 11′, W. 13° 45′*†	29.90	759.4	64	17.8		ne.					10				0	0			cloudy.
Bk. Bergenseren, N. 36° 00′ W. 24° 05′†	30.38	771.6				se.			1				e.		0	0	1	e.	fair.
Bk. Celestina, S. 1° 50′, W. 29° —′*†	29.94	760.5				nne.			2		7		var.		0	0	mod.	s.	fair.
S. S. Compton, Cardenas, Cuba, W. I.†	30.15	765.8				ese.			1		5		calm		0	0			hazy.
Bk. E. L. Pettingill, S. 5° 23′, W. 110° 52′†	30.10	764.5				e.			3		2		e.		0	0	sm'l		
Ship Exporter, N. 37° 30′, W. 55° 51′*†	30.40	772.1				ssw.			6				sw.		0	0	cross	s:sw.	cloudy.
Ship Festina Lente, N. 60° 17′, W. 60° 47′*	29.49	749.0	42	5.6		nnw.			5		8		nnw.		8 h'r	8 h'r	mod.	w.	cloudy.
U.S.F.C.S.S. Fish Hawk, Washington, D. C.†	30.27	768.8	38	3.3	81	nne.			2		3		w.		0	0			clear.
Bk Freya, Baltimore, Md			46	7.8		ne.			1		5		ne.		0	0			fair.
S. Grecian, S. 15° 24′ W. 32° 55′*†	30.10	764.5	80	26.7		ese.			5		6		ese.		3 h'r	3 h'r	mod.	s.	light rain.
Bk. Geo. Booth, Cape Good Hope Africa*†	29.80	756.9				var.									h'vy	h'vy			thund'r st'm.
Bk. Granville, S. 34° 47′, W. 11° 47′*†	30.19	766.8				n.			4				nnw.		0	0	mod.	nne.	cloudy.
S. Hedwig, N. 60° 12′, W. 5° 30′	29.40	746.8	43.2	6.2	92	nnw.			7		5		nnw.		0	0	4	w.	clearing.
Schr. Henry Denison, N. 18° 17′, W. 75° 51′†	30.12	765.0				ne.			3		3		ne.		0	0	mod.	ne.	fair.
Bk. Johanne Auguste, S. 1° 47′, E. 89° 38′*.	29.72	754.9				wnw.			2		2		nnw.		4 h'r	4 h'r	cross	se.	fair.
Bg. John Wesley, N. 22° 56′, W. 80° 00′†	30.10	764.5	79	26.1		sw.			1		4				0	0			fair.
Bkt. Josephine, Aspinwall, Panama*†	30.12	765.0	82	27.8	75	nne.			6		2		nne.		0	0			fair.
Bk. Liberia, N. 35° 19′, W. 52° 56′*	30.31	769.9				s.			5		6				0	0	high	nw.	fine.
Schr. Maggie Abbott, N. 39° —′ W. 74° —′*†	30.10	764.5				ne.			4						0	0			clear.
Bg. Medina, N. 38° 03′, W. 74° 05′†	30.17	766.3				ene.			4		0						long	sse.	clear.
S. S. Nebo, N. 8° 07′, W. 42° 57′*†	29.88	758.9				ene.			3		8		ne.		0	0	mod	ene.	cloudy.
Bk. Peppina, N. 36° 39′. W. 8° 26′†	30.12	765.0	62	16.7	66	nnw.			2		0						sm'h		clear.
Bk Pilgrim, S. 44° 30′, E. 129° 16′*†.	29.80	756.9				wsw.			6		5		wsw.		light	light	cross	s. to w	fair.
Bg. Potomac, N. 24° 49′, W. 62° 44′*†	30.20	767 1				e.			3				e.				r'gh	ese.	fine.
Bkt. Spotless, N. 24° 34′, W. 39° 01′*†	30.00	762.0				e.							s.				mod.	ese.	squally.
Bk. Stella, S. 56° 35′, W. 64° 50′*	28.78	731.0	40.1	4.5	92	sw.			8		10				0	0			squally.
Bg. Wauburn. S. 7° 42′, W. 32° 00′*†	30.11	764.8				e.			5		4		e.				sm'h		
S. Wm. Woodbury, N. 59° 08′, W. 1° 11′*†	29.60	751.8	46	7.8	84	sw.			6				n.				h'vy	w.	squally.



Data, as appearing in the International Bulletin of similar date.

Isobars in *black* exhibit atmospheric pressure at sea-level, and are charted from data as reported by the several observers.

Isotherms in *red* exhibit temperature of air, similarly charted.

Broken or dotted lines indicate that the lines so broken are doubtful.

Arrows, when charted, fly with the wind and exhibit wind-direction and force.

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W. B. Hazen

Brig. & Bvt. Maj. Gen'l.
Chief Signal Officer. U. S. A.

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INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON MARCH 30, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind.		Clouds. Direction.		Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.		
Algerian.																			
Nemours	.....	.....	29.97	761.1	62.6	17.0	84	w.	.....	.....	3	.....	0	.....	.....	0	0	clear	Moiroud.
Algiers	.....	.....	29.93	760.2	58.6	14.8	70	nw.	.....	.....	1	.....	0	.....	.....	0	0	clear	Nicolas.
La Calle	.....	.....	29.87	758.7	58.6	14.8	70	nnw.	.....	.....	3	.....	4	.....	.....	0.157	4.0	cloudy	Fonfrède.
Tunis	.....	.....	29.80	756.9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.02	762.6	55.0	12.8	61	n.	.....	.....	3	.....	3	.....	.....	0	0	pretty fair	Dumas.
Tebessa	.....	.....	29.82	757.4	44.2	6.8	91	nw.	.....	.....	2	.....	4	.....	.....	0.827	21.0	cloudy	Derché.
Geriville	.....	.....	.....	.....	52.9	11.6	23	nw.	.....	.....	1	.....	5	.....	.....	0.012	0.3	cloudy	Louchamp.
Laghouat	.....	.....	30.04	762.9	55.4	13.0	57	nw.	.....	.....	1	.....	3	.....	.....	0.157	4.0	pretty fair	Herbin.
Biskra	.....	.....	30.03	762.7	53.6	12.0	91	nw.	.....	.....	1	.....	10	.....	.....	inap.	inap.	cloudy	Malau.
Australian.																			
Melbourne, Victoria	30.01	762.2	30.10	764.5	57.6	14.2	68	s.	3	1.3	.....	.....	10	.....	.....	0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.33	745.0	29.87	758.8	58.6	14.8	49	se.	.....	.....	2	.....	2	.....	.....	0	0	.....	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.04	737.5	29.80	756.8	55.4	13.0	62	sw.	10.5	4.7	.....	.....	10	.....	.....	0.012	0.3	.....	Dr. Wierzbiski.
Eperies	28.93	734.8	29.80	757.0	54.3	12.4	59	s.	.....	.....	2	cs	7 s	.....	.....	0	0	.....	Julius Mikolik.
Gratz	28.61	726.7	29.84	758.0	56.3	13.5	55	sw.	.....	.....	2	.....	0	.....	.....	0	0	.....	Andreas Rospini.
Hermannstadt	28.44	722.3	29.85	758.1	58.6	14.8	48	nw.	.....	.....	3	.....	2	.....	.....	0	0	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.46	722.8	29.79	756.7	52.0	11.1	60	ene.	.....	.....	1	.....	3	.....	.....	c	0	partly cl'dy	The Staff.
Lemberg	28.80	731.6	29.79	756.7	47.8	8.8	89	nw.	.....	.....	2	.....	10	.....	.....	inap.	inap.	.....	Dr. T. Stanecki.
Pola	29.72	754.8	29.83	757.6	57.4	14.1	62	wnw.	.....	.....	1	.....	3	.....	.....	0	0	.....	I. R. Hydrographic Office.
Szathmar	29.39	746.4	29.85	758.1	57.7	14.3	54	sw.	.....	.....	2	.....	10	.....	.....	0	0	.....	Joseph Midlinszky, S. J.
Szegedin	29.60	751.8	29.88	758.9	57.2	14.0	47	w.	.....	.....	1	.....	5	.....	.....	0	0	.....	Karl Stancel.
Trieste	29.75	755.6	29.85	758.2	61.2	16.2	49	nw.	.....	.....	2	.....	0	.....	.....	0	0	.....	Rieder.
Vienna	29.12	739.7	29.83	757.6	61.9	16.6	39	se.	.....	.....	1	.....	2	.....	.....	0	0	.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.42	747.3	29.52	749.8	41.1	5.1	75	n.	16	7.2	.....	.....	10	.....	.....	0.035	0.9	showery	W. Boswell.
Armagh, Observatory	29.39	746.5	29.64	752.8	47.3	8.5	73	wnw.	9	4.0	.....	.....	7	.....	.....	.....	.....	d. clouds	S. Call.
Bidston, Liverpool Obs'y	.....	.....	29.59	751.6	46.8	8.2	81	w.	22	9.8	.....	.....	7	.....	.....	.....	.....	d. clouds	John Hartnup.
Bolton, Sharples	29.04	737.6	29.58	751.3	44.8	7.1	77	wsw.	12	5.4	.....	.....	7	.....	.....	.....	.....	d. clouds	Thomas Mackereth. [A.S.
Bradford, Yorkshire	29.15	740.4	29.54	750.3	48.1	8.9	62	w.	.....	.....	2	.....	8	.....	.....	0.03	0.8	overcast	J. McLandsborough, F. R
Bridgetown, Barbadoes	29.99	761.7	30.02	762.5	80.0	26.7	70	ne.	.....	.....	2	.....	6	.....	.....	.....	.....	gloomy	Pvt. J. Surgenor, A. H.C.
Cardington	.....	.....	29.60	751.8	53.2	11.8	53	w.	.....	.....	1.0	.....	2	.....	.....	.....	.....	blue sky	John McLaren.
Chatham, School M. E.	29.54	750.3	29.66	753.4	54.5	12.5	54	w.	.....	.....	1	.....	7	.....	.....	.....	.....	d. clouds	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	29.45	748.0	29.68	753.9	50.6	10.3	64	sw.	.....	.....	1	.....	6	.....	.....	.....	.....	d. clouds	The Staff.
Fort Napier, Natal	27.56	700.0	29.77	756.1	84.0	28.9	64	se.	.....	.....	1	.....	2	.....	.....	.....	.....	blue sky	Pvt. E. K. Annis, A. H.C.
Free Town, Sierra Leone	29.62	752.3	29.85	758.2	88.0	31.1	69	nw.	.....	.....	1	.....	3	.....	.....	.....	.....	d. clouds	Sergt. John Robinson.
Galway, Queen's College	.....	.....	29.63	752.6	.....	.....	.....	nw.	.....	.....	2	.....	6	.....	.....	.....	.....	d. clouds	J. O'Donaghue.
Gibraltar, Mediterranean	30.17	766.3	30.22	767.6	67.2	19.6	77	s.	.....	.....	1	.....	0	.....	.....	.....	.....	blue sky	Opl. O. Baldwin.
Glasgow, Observatory	29.30	744.2	29.50	749.3	48.5	9.2	71	nne.	.....	.....	2	.....	5 n; k	.....	.....	.....	.....	d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.48	748.8	29.65	753.1	55.8	13.2	67	sw.	.....	.....	3	.....	3	.....	.....	.....	.....	blue sky	The Staff.
Guernsey	29.40	746.7	29.69	754.1	51.0	10.6	78	nw.	.....	.....	1	.....	5	.....	.....	blank	blank	d clouds	A. Collenette, F. M. S.
Kew, Observatory	29.62	752.3	29.66	753.4	51.2	10.7	52	sw.	11	4.9	.....	.....	5	.....	.....	.....	.....	d. clouds	The Staff.
Leicester, Museum	29.34	745.2	29.59	751.6	57.0	13.9	53	sw.	.....	.....	1	.....	4	.....	.....	.....	.....	d. clouds	J. O. Smith.
Malta, Mediterranean	29.54	750.3	29.62	752.3	60.4	15.8	76	n.	.....	.....	2	.....	4	.....	.....	blank	blank	d. clouds	I. H. Whysall.
Nassau, Bahamas	30.22	767.6	30.26	768.6	78.5	25.8	71	se.	.....	.....	1	.....	8	.....	.....	.....	.....	d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.09	738.9	29.61	752.1	51.6	10.9	59	w.	.....	.....	2	.....	7	.....	.....	.....	.....	d. clouds	John Mac Email.
Oxford, Radcliffe Obs'y	29.42	747 3	29.65	753.1	48.7	9.3	71	sw.	.....	.....	3	.....	7	.....	.....	.....	.....	d. clouds	The Staff.
Plymouth	29.59	751.6	29.67	753.6	52.3	11.3	69	sw.	.....	.....	2	.....	8	.....	.....	.....	.....	d. clouds	John Merrifield.
Sandwick Manse, Orkneys	.....	.....	29.42	747.3	41.8	5.4	60	nne.	40	17.9	.....	.....	0	.....	.....	.....	.....	blue sky	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.82	757.4	29.88	758.9	57.0	13.9	57	ne.	.....	.....	1	.....	6	.....	.....	blank	blank	d. clouds	W. H. Lyne.
Sheffield	29.31	744.5	29.59	751.6	48.9	9.4	74	wsw.	.....	.....	4	.....	5	.....	.....	0	0	d. clouds	W. F. Cooper.
Silloth Rectory	29.47	748.5	29.50	749.3	44.5	6.9	88	w.	.....	.....	3	.....	6	.....	.....	0.080	2.0	showery	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	29.58	751.3	47.5	8.6	60	wnw.	18	8.0	.....	.....	6	.....	.....	.....	.....	d. clouds	R. S. J. Perry.
Stratfield Turgiss	29.37	746.0	29.59	751.6	51.5	10.8	58	s.	.....	.....	2	.....	8	.....	.....	.....	.....	d. clouds	Rev. O. H. Griffiths, F.M.S.
Truro, Royal Institution	29.60	751.8	29.64	752.8	52	11.1	72	nw.	.....	.....	6	.....	10	.....	.....	.....	.....	raining	W. Newcombe.
Valencia, Observatory	29.71	754.6	29.74	755.4	48.5	9.2	77	nnw.	10	4.5	.....	.....	6	.....	.....	blank	blank	d. clouds	The Met'g'l Office.
Canadian.																			
Bathurst, N. B	.....	.....	.....	.....	23.0	— 5.0	.....	s.	7	3.1	.....	.....	10 n	.....	.....	0	0	cloudy	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.06	763.5	30.10	764.5	25	— 3.9	86	s.	11	4.9	.....	0	2 s	.....	.....	0	0	fair	H. J. Cundall, C. E.
Chatham, N. B*	29.89	759.2	29.96	761.0	27	— 2.8	88	se.	13	5.8	.....	.....	10 s	.....	se.	0	0	cloudy	G. A. Blair.
Cornwall, Ontario	29.48	748.8	29.68	753.9	42.8	6.0	81	sw.	.....	.....	3	.....	10 s	.....	.....	0.039	1.0	cloudy	James Smith, M. A.
Dalhousie, N. B	29.68	753.9	29.86	758.4	22.0	— 5.6	.....	e.	.....	.....	2	0	7 ks	.....	.....	0	0	fair	H. A. Johnson.
Father Point, Quebec*	29.63	752.6	29.65	753.1	31	— 0.6	92	sw.	26	11.6	.....	.....	10 s	.....	sw.	0.01	0.3	threatening	J. McWilliams.
Fort Garry, Manitoba*	29.59	751.6	30.48	774.2	—19	—28.3	100	calm	0	0	.....	0	0	.....	.....	0	0	clear	James Stewart.
Fredericton, N. B	29.91	759.7	29.98	761.5	33.0	0.6	70	w.	12	5.4	.....	.....	10 s	.....	.....	0	0	cloudy	Prof. Harrison.
Granton, Ontario	28.99	736.3	30.14	765.5	29.0	— 1.7	100	nw.	3	1.3	.....	7 ck	0	nw.	.....	inap.	inap.	fair	James Grant.
Halifax, N. S*	30.02	762.5	30.16	766.1	29	— 1.7	80	s.	2	0.9	.....	10 k	0	sw.	.....	0	0	cloudy	A. Allison.
Hamilton, Ontario	29.64	752.8	30.05	763.3	31.9	— 0.1	74	sw.	.....	.....	5	10 ok	0	sw.	.....	0.10	2.5	cloudy	Geo. Dickson, B. A.
Kingston, Ontario*	29.50	749.3	29.85	758.2	34	1.1	78	sw.	11	4.9	.....	.....	10 k	.....	w.	0.13	3.3	cloudy	A. P. Knight, M. A.
Little Glace Bay, N. S	30.10	764.5	30.14	765.5	27.0	— 2.8	93	se.	.....	.....	2	.....	10 n	.....	.....	0	0	cloudy	C. H. Rigby.
Montreal, Quebec*	29.47	748.5	29.68	753.9	37	2.8	85	w.	16	7.2	.....	.....	10 s	.....	w.	inap.	inap.	cloudy	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.30	744.2	30.04	763.0	24	— 4.4	84	nw.	17	7.6	.....	2 k	2 k	w.	w.	0.35	8.9	fair	Rev. R. Mosley.
Peterboro, Ontario	29.13	739.9	29.91	759.7	32.7	0.4	79	nw.	.....	.....	4	0	8 ks	.....	.....	0	0	fair	J. Dixon, B. A.
Port Dover, Ontario	29.37	746.0	30.09	764.3	32	0.0	90	nw.	13	5.8	.....	10 k	0	nw.	.....	0.17	4.3	fair	H. Morgan.
Port Stanley, Ontario	29.44	747.8	30.12	765.0	32	0.0	81	w.	16	7.2	.....	0	5 k	.....	nw.	0.08	2.0	cloudy	M. Payne.
Quebec, Quebec*	29.36	745.7	29.69	754.1	31	— 0.6	96	e.	.....	.....	1	.....	10 n	.....	e.	0.01	0.3	light snow	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.39	746.5	29.88	758.9	23	— 5.0	73	nw.	20	8.9	.....	.....	10 s	.....	nw.	inap.	inap.	light snow	W. H. McIntyre.
Saugeen, Ontario*	29.38	746.2	30.13	765.3	27	— 2.8	92	nw.	38	17.0	.....	.....	10 ks	.....	.....	0.23	5.8	cloudy	
St. Andrews, N. B	29.94	760.5	29.99	761.7	33	0.6	89	sw.	16	7.2	.....	.....	10 n	.....	.....	0	0	cloudy	
St. John, N. B	29.85	758.2	30.02	762.5	31.0	0.6	89	sw.	18	8.0	.....	.....	10 ks	.....	.....	0	0	cloudy	G. Murdock, C. E.
St. Pierre, N. F	.....	.....	30.20	767.1	19.4	— 7.0	.....	ne.	.....	.....	2	.....	.....	.....	.....	0	0	.....	N. F. Land, Com't.
Stratford, Ontario	28.79	731.3	30.14	765.5	27.0	— 2.8	88	nw.	21	9.4	.....	.....	10 n	.....	.....	0.172	4.4	cloudy	O. I. Macgregor, M. A.
Sydney, C. B*	30.13	765.3	30.20	767.1	26	— 3.3	84	se.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	T. C. Hill, C. E.
Toronto, Ontario*	29.65	753.1	30.05	763.3	32	0.0	71	nw.	30	13.4	.....	.....	10 ks	.....	nw.	0.06	1.5	cloudy	Magnetic Observatory.
Windsor, N. S	30.01	762.2	30.10	764.5	30.0	— 1.1	95	s.	16	7.2	.....	.....	10 n	.....	.....	0	0	cloudy	Prof. W. R. Butler.
Woodstock, Ontario	28.98	736.1	30.09	764.3	29.9	—1.2	84	w.	26	11.6	.....	2 c	7 ks	nw.	.....	0	0	cloudy	Prof. Wolverton
Yarmouth, N. S*	30.04	763.0	30.11	764.8	32	0.0	88	s.	6	2.7	.....	.....	10 k	.....	sw.	0	0	cloudy	Lt. F. E. Wilmot, R. N.
Sub-series.																			
St. Johns, Newfoundland	30.13	765.3	30.40	772.1	23	— 5.0	.....	e.	2	0.9	.....	.....	10	.....	.....	0	0	.....	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	29.93	760.2	29.96	761.0	68.0	20.0	88	wsw.	10.3	4.6	.....	8 c	0	.....	.....	0	0	hazy	John Duthie.
Cape Town, C. G. H. Obs'y	29.95	760.7	29.99	761.7	69.0	20.6	88	wnw.	8	3.6	.....	10	10	.....	.....	1,668	42.4	.....	The Staff, for D. Gill.

STATIONS.	BAROMETER. Corrected for instrumental error and for temperature.		BAROMETER. Reduced to sea-level.		Temperature of the air.		Relative humidity.	WIND. Direction.	WIND. Velocity.		WIND. Force.	CLOUDS. Amount and kind.		CLOUDS. Direction.		Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
												Upper.	Lower.	Upper.	Lower.				
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
CHINESE (*Sub-series*).																			
Hankow	29.95	760.7	30.23	767.8	56.7	13.7	93	ne.			3		10			0.09	2.3	raining	N. Titoushkin.
Zi-Ka-Wei, near Shanghai	30.01	762.2	30.03	762.8	55.9	13.3	98	ene.	1.0	0.4			10 n			0.094	2.4	raining	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	29.54	750.3	29.59	751.5	50.5	10.3	63	w.	18	8			9						Oversergent Fischer.
Fanöe	29.50	749.3	29.52	749.8	45.9	7.7	89	sw.			4		5						Overloerer Lauridsen.
Godthaab, Greenland	29.84	757.8	29.88	758.9	12.0	—11.1	89	ene.			2		8						S. Kleinschmidt.
Stykkisholm, Iceland	29.50	749.4	29.55	750.5	37.8	3.2	80	s.			8		10					raining	A. O. Thorlacius.
Thorshavn	29.82	757.3	29.85	758.2	38.5	3.6	58	ne.	16	7			10						Overloerer Bergh.
Vestervig	29.32	744.6	29.41	746.9	45.1	7.3	89	wsw.			4		6						Loerer Oesterbol.
FRENCH.																			
Agen, Normal School	29.32	744.6	29.97	761.3	51.1	10.6	76	calm			0		kn			0	0		M. Labroue, Director.
Alençon, Normal School	29.30	744.3	29.85	758.3	50.0	10	86	sw.			2		n		ne.	0.008	0.2		M. Nicot, Director.
Arras, Engineer School	29.41	747.0	29.67	753.6	52.2	11.2	79	sw.			3		10			0.028	0.7	covered	M. Klein, Commandant.
Avignon, Normal School	29.76	755.8	29.84	757.8	65.3	18.5	44	n.			1		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.28	743.6	29.83	757.7	51.8	10.9	64	s.			1		10			0	0	covered	M. Saillard, Director.
Beauvais, Normal School	29.50	749.3	29.76	756.0	53.6	12	76	wsw.			2		10		wsw.			raining	M. Frère Eugène Marl.
Besançon, Normal School	28.95	735.2	29.88	758.9	49.8	9.9	69	ne.			1		n		nw.	0	0		M. Gobin, Director.
Bordeaux, Observatory	29.61	752.2	29.88	758.9	52.0	11.1	60	sw.			1		10			0	0	covered	M. Rayet, Director.
Bourges, Normal School	29.32	744.6	29.87	758.8	50.0	10	62	ssw.			1		sn		ssw.	0	0		M. Postel, Director.
Brest, Naval Observatory	29.52	749.9	29.77	756.1	56.1	13.4	73	sw.			2		6		sw.	0.087	2.2		M. de Kermaree, Dir.
Caen, Normal School	29.62	752.3	29.69	754.2	52.0	11.1	77	ssw.			2		8		ssw.	0	0	very cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.47	748.4	29.79	756.6	50.0	10.0	74	sw.			3		10		sw.	0	0	covered	M. Jadot, Director.
Charleville, Normal School	29.26	743.1	29.77	756.1	49.6	9.8	76	nw.			1		10			0.004	0.1	raining	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.51	724.1	29.87	758.8	48.6	9.2	61	w.			1		10			0	0	covered	M. Alluard, Director.
Cluny, Normal School	29.03	737.4	29.88	758.9	49.1	9.5	54	n.			3		4		n.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	28 97	735.7	29.83	757.7	51.8	11	61	w.			1	0	8 n	w.	w.	0	0	very cloudy	Dr. Coulet, Director.
Gap, Normal School	27.31	693.6	29.79	756.6	64.0	17.8	36	ne.			3					0	0		M. Jeangirard, Director.
Gréasque, du. Rhone	28.69	728.6	29.78	756.5	64.6	18.1	23	s.			2		0			0	0	clear	M. Kina, Director.
Grenoble, Normal School	29.05	737.8	29.81	757.1	55.4	13	53	nnw.			1		0			0	0	clear	M. Ablard, Director.
Guéret, Normal School	28.28	718.4	29.88	759.0	44.8	7.1	63	sw.			1		n		ne.	0.008	0.2		M. Rivoire, Director.
Lamballe, Normal School	29.36	745.8	29.63	752.7	52.9	11.6	62	w.			1		5		w.	0.08	2.	cloudy	M. Olintrault, Director.
Lescar, Normal School	29.45	748.0	30.02	762.4	55.4	13	55	n.			1		0			0	0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	29.66	753.4	29.76	756.0	55.4	13.0	77	sw.			2		10		sw.	0.232	5.9	covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.82	731.9	29.87	758.8	51.1	10.6	59	nw.			1		5 n	sw.	s.	0	0	½ covered	M. André, Director.
Mans, Normal School	29.52	749.7	29.83	757.6	48.7	9.3	90	sw.			1		10			0	0	covered	M. Piboen, Director.
Marseille, Observatory	29.58	751.3	29.85	758.1	59.9	15.5	56	wsw.			0.1		0			0	0		M. Stephan, Director.
Montlouis l'Instituteur	24.61	625.0	29.45	748.0	45.5	7.5	55	ne.	7.4	3.3			0			0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.70	754.3	29.83	757.6	61.9	16.6	53	nw.			2		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.05	737.8	29.84	757.8	51.4	10.8	61	ssw.			1	0	8 kn			0	0	very cloudy	M. Hasse, Director
Nantes, Observatory	29.65	753.1	29.81	757.2	51.8	11	83	wsw.			1-2		10 n		sw.	0.012	0.3		M. Larocque, Director.
Perpignan, Observatory	29.75	755.7	29.86	758.5	63.0	17.2	38	sw.	3.8	1.7			0			0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.05	534.6			31.5	— 0.3		w.			2		1		w.	0	0	clear	Gen'l de Nansouty, Dir.
Privas, Normal School	28.84	732.6	29.90	759.4	59.5	15.3	44	n.			1		0			0	0	clear	M. Tallieu.
Puy de Dôme Obs'y, Summit	24.93	633.2			29.3	— 1.5	100	wsw.			2		10			0	0	foggy	M. Alluard, Director.
Rochefort, Naval Obs'y	29.83	757.7	29.86	758.5	53.2	11.8	90	sw.			2		10		w.	0.063	1.6	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.63	752.6	29.85	758.2	48.9	9.4	95	sw.			1		10			0.024	0.6	foggy	M. Mouillot, Director.
Rodez, Normal School	27.73	704.4	29.92	759.9	44.6	7	83	nw.			1		10			0	0	covered	M. Serger, Director.
Rouen, Normal School	29.69	754.0	29.73	755.2	52.5	11.4	80	sw.			1		8			0	0	very cloudy	M. Platrier, Director.
Saint Maur, Observatory	29.63	752.7	29.80	756.9	49.8	9.9	75	sw.			2		10		sw.	0.071	1.8		M. Renou, Director.
Toulouse, Observatory	29.24	742.7	29.97	761.1	53.2	11.8	66	n.			1		8		nw.	0	0	very cloudy	M. Baillaud, Director.
Versailles, Observatory	29.29	743.9	29.78	756.4	49.6	9.8	86	sw.			2					0.063	1.6		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.51	749.6	29.80	757.0	50.2	10.1	83	sw.			3		10		sw.	0.024	0.6	sprinkling	M. Marié Davy, Director
GERMAN.																			
Bamberg	28.95	735.3	29.80	756.9	51.8	11.0	55	w.			3	0	8 k		w.	0	0		Prof. Dr. Hoh.
Berlin	29.52	749.8	29.69	754.2	53.1	11.7	66	sw.			2		10			0.031	0.8		Prof. Dr. Arndt.
Breslau	29.27	743.4	29.80	756.8	52.9	11.6	64	w.			2		10			0.063	1.6	rainy	Royal University Obs'y.
Carlsruhe	29.39	746.6	29.83	757.7	50.7	10.4	65	sw.			5		10	sw.		0	0		Albert Senz.
Cassel	29.00	736.5	29.71	754.0	50.4	10.2	76	s.			4		9	s.		0.071	1.8		Dr. H. Möhl.
Frankfort on the Main	29.41	747.0	29.77	756.2	55.6	13.1	60	sw.			1		9			0.012	0.3		Physical Society.
Friedrichshafen	28.41	721.5	29.89	759.1	48.2	9.0	64	sw.			1		2	sw.		0	0		Wilhelm, Chief Tel.
Hamburg	29.54	750.2	29.63	752.6	51.8	11.0	57	w.			4		7	wsw.		0.161	4.1		E. Preller.
Kiel	29.56	750.8	29.57	751.2	50.7	10.4	65	wsw.			3		6			0.157	4.0		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.34	745.1	29.75	755.7	54.0	12.2	61	sw.			3		9	wsw.		0.063	1.6		H. Leppig, Asst.
Magdeburg	29.53	750.0	29.72	754.8	51.1	10.6	73	wsw.			2		10 ks		w.			raining	Dr. Assmann.
Memel	29.65	753.2	29.70	754.4	47.9	5.5	83	ssw.			1		10 s						Issermann.
Munich	27.99	711.0	29.84	758.0	51.1	10.6	47	calm			0		2	sw.		0	0		Central Station.
Neufahrwasser	29.63	752.7	29.65	753.1	51.1	10.6	90	sw.			2		10			0.232	5.9		A. Lothes.
Neustadt, Paintinate	29.25	743.0	29.93	760.3	54.1	12.3	55	w.			2		6			0	0		Dickmether.
Stuttgart	28.87	733.3	29.76	756.0	50.9	10.5	65	n.			1		10			0	0		Prof. Dr. Schoder.
Wustrow	29.61	752.0	29.63	752.6	44.1	6.7	93	sw.			4		10			0	0		Profs. Brandes & Reimer.
GREEK.																			
Athens	29.41	747.0	29.80	757.0	59.2	15.1		ne.			2.0		10			0.866	22.0	sprinkling	Schmidt & Wourlisch.
INDIAN.																			
Bellary	28.29	718.6			99.0	37.2	21	e.	5.2	2.3		3 c	1			0	0	d. clouds	
Kurrachee	29.88	758.9	29.93	760.2	82.2	27.9	51	wsw.	23	10.3			4			0	0	d. clouds	
Deesa	29.35	745.5	29.81	757.2	95.1	35.1	19	w.	8.1	3.6			2	nw.		0	0	misty	
Bombay	29.76	755.9	29.80	756.8	87.2	30.7	49	nnw.	29	13.0			0			0	0	blue sky	
Poona, Yarrowda	27.93	709.5	29.72	754.8	98.0	36.7	8	nw.	23	10.3			0			0	0	blue sky	
Belgaum	27.27	692.6	29.76	755.8	85.1	29.5	49	ssw.	11	4.9			0			0	0	misty	
Lahore	29.07	738.3	29.80	756.9	86.5	30.3	33	ne.	1.0	0.4			8			0	0	misty	
Roorkee	28.88	733.5	29.76	755.9	88.2	31.2	17	w.	3.5	1.6			7			0	0		
Agra	29.23	742.4	29.77	756.2	97.1	36.2	18	nw.	4.2	1.9			0			0	0		
Nagpur	28.72	729.4	29.71	754.7	102.5	39.2	9	se.	3.7	1.6			0			0	0	blue sky	
Jubbulpore	28.46	722.8	29.77	756.1	96.9	36.1	7	nne.	2.0	0.9			0			0	0	blue sky	
Lucknow	29.38	746.2	29.74	755.4	98.0	36.7	10	wnw.	8.8	3.9			0			0	0	misty	
Allahabad	29.45	747.9	29.75	755.6	96.4	35.8	17	nw.	6.1	2.7			0			0	0	blue sky	
Patna	29.57	751.1	29.75	755.7	94.3	34.6	23	wnw.	4.2	1.9			0			0	0	blue sky	
Hazaribagh	27.77	705.3	29.71	754.6	94.8	34.9	8	w.	11.3	5.0			0			0	0	blue sky	
Cuttack	29.72	754.8	29.80	756.9	80.3	26.8	92	ssw.	5.2	2.3			1			0.03	0.8	blue sky	
Calcutta, Alipore	29.76	755.9	29.78	756.5	84.6	29.2	72	s.	13.0	5.8			0			0	0	blue sky	
Dhubri	29.71	754.7	29.84	757.8	72.2	22.3	85	ne.	13.6	6.1			10			0	0	gloomy	
Chittagong	29.80	756.8	29.89	759.1	80.3	26.8	87	sw.	7.7	3.4			2			0	0	blue sky	
Sibsagar	29.56	750.7	29.90	759.4	71.1	21.7	91	sw.	2.3	1.0			10	w.	w.	0.60	15.2	gloomy	
Jeypore	28.38	720.9	29.78	756.5	95.7	35.4	8	nw.	4.5	2.0			3	nw.		0	0	d. clouds	
Zanzibar, Africa	29.80	756.9			83.2	28.4	72	sw.	7.5	3.4			7		sw.	1.63	41.4	gloomy	
Trichinopoly	29.53	750.0			96.0	35.6	36	se.	1	0.4			3			0	0	d. clouds	
ITALIAN.																			
Udine	29.46	748.3	29.87	758.7	61.5	16.4	36						2			0	0		Prof. Giovanni Clodig.
Milan	29.36	745.7	29.87	758.8	60.3	15.7	38	se.	3.1	1.4			0			0	0		Prof. Schiaparelli.
Padua	29.76	755.8	29.87	758.6	59.4	15.2	42	ene.	4.9	2.2			0			0	0		Prof. Dott. Lorenzoni.
Moncalieri	28.95	735.3	29.86	758.5	58.8	14.9	42	s.	3.1	1.4			1	ne.		0	0		Prof. P. F. Denza.
Genoa	29.65	753.0	29.84	757.9	60.8	16.0	53	s.	3.8	1.7			0			0	0		Prof. G. M. Garibaldi.
Mondovi	27.93	709.5	29.85	758.2	54.9	12.7	43	w.			4		0			0	0		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper.	Lower.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	OBSERVERS.
ITALIAN.—Continued.																			
Pesaro	29.81	757.2	29.86	758.4	53.2	11.8	76	n.	9.8	4.4			0			0	0		Prof. Luigi Guidi.
Florence	29.55	750.5	29.80	757.0	63.1	17.3	31	ne.			2		0			0	0		Prof. Costantino Pitter.
Leghorn	29.72	755.0	29.81	757.2	58.6	14.8	60	w.	1.3	0.6			0			0	0		Prof. P. Monte.
Rome	29.60	751.7	29.77	756.1	65.1	18.4	25	wsw.	1.8	0.8			0			0	0		Prof. P. S. Ferrari.
Lecce	29.55	750.6	29.80	757.0	58.6	14.8	72	ese.	9.4	4.2			6	se.		0.323	8.2		Prof. C. de Giorgi.
Cosenza	28.82	732.1	29.71	754.6	52.2	11.2	73	wnw.	6.9	3.1			9	n.		0	0		Prof. D. Conti.
Cagliari	29.59	751.5	29.78	756.4	60.4	15.8	37	se.			2		1	n.		0.012	0.3		Prof. A. Pacinotti.
Palermo	29.49	749.1	29.74	755.5	61.3	16.3	61	ne.	6.3	2.8			10			1.378	35.0		Prof. G. Ciacciatore.
Syracuse	29.58	751.3	29.63	752.5	56.8	13.8	78	ene.	13.0	5.8			8	ene.		1.535	39.0		Prof. Vincenzo Guiliano.
Sub-series.																			
Naples, S. R	29.22	742.3	29.74	755.4	61.5	16.4	51	ne.	11.2	5.0			1	ne.		0	0		Prof. T. Brioschi.
Stelvio	22.01	559.0			30.0	— 1.1	59	sw.			4		0			0	0	clear	Prof. P. F. Denza.
Valdobbia	22.02	559.2			35.6	2.0	64	n.			2		3			0	0	clear	Prof. P. F. Denza.
JAPANESE.																			
Aomori	30.32	770.1	30.35	770.9	37.5	3.1	72	wsw.	12.6	5.6		3 ck	0			0	0	fair	K. Ogawa.
Hakodate	30.30	769.6	30.31	769.9	38.8	3.8	65	nw.	13.8	6.2			0			0	0	clear	
Hiroshima, I. M. Obs'y. †	30.32	770.1	30.33	770.4	48.5	9.2	89	w.	2.0	0.9		8ck;cs	0			0.010	0.3	cloudy	K. Sasaki.
Kanazawa	30.33	770.4	30.43	772.9	43.1	6.2	65	se.	4.8	2.1		1 c;cs	0			0	0	clear	S. Endo.
Kioto	30.21	767.3	30.39	771.9	41.2	5.1	64	nnw.	2.0	0.9		cs	2 s			0	0	clear	M. Tojima.
Kochi	30.36	771.1	30.39	771.9	54.1	12.3	74	ne.	3.5	1.6		ck	10 s		w.	0	0	cloudy	
Nagasaki, I. M. Obs'y	30.08	764.0	30.28	769.1	56.2	13.4	60	se.	1.9	0.8			10 s			0.030	0.8	overcast	S. Takehayashi.
Niigata	30.42	772.6	30.46	773.7	40.3	4.6	81	w.	0.5	0.2		3 ck	0	w.		0	0	fair	
Nobiru	30.35	770.9	30.36	771.1	41.5	5.3	67	nnw.	13.4	6.0		0	0			0	0	clear	H. Midzushina.
Sapporo					29.0	— 1.7	74	calm	0	0			0			0.030	0.8	clear	
Tokei Obs'y, Yeddo	30.32	770.1	30.39	771.9	47.2	8.4	77	nnw.	4.4	2.0		10 ck	0	w.		0	0	cloudy	The Staff.
Wakayama	30.32	770.1	30.37	771.4	51.3	10.7	57	ne.	5.2	2.3		4 ck	0			0	0	fair	Y. Kuwamura.
MAURITIUS.																			
Mauritius Observatory	29.79	756.7	29.98	761.5	79.9	26.6	78	e.	19.0	8.5		0	6 k;n		e.	0.13	3.3	fair	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.78	603.9	30.00	761.9	57.6	14.0	64	se.				0	0			0	0	clear	Vicente Fernandez.
Leon	24.48	621.9	30.19	766.7	58.1	14.5	75	calm			0	4	0	w.		0	0	foggy	Prof. M. Leal.
Mazatlan	29.82	757.4	30.08	764.0	65.5	18.6	83	ne.				2 cs	0			0	0	misty	F. Quijano, C. E.
Mexico, Central Obs'y	23.19	589.0	30.27	768.9	55.6	13.1	62	calm	0	0		0	0			0	0	fine	M. Tena, M. D.
Morelia	24.25	616.0	30.39	771.8	57.4	14.1	77	w.			3	3	3	s.	s.	0	0	foggy	The Staff.
Pabellon, Aguascallentes	24.03	610.4	30.02	762.5	59.5	15.3	54					0	6		sw.	0	0	½ clouded	M. V. de Leon, M. E.
Puebla, Catholic Institute	23.48	596.4	30.26	768.5	51.8	11.0	89	calm	0	0		0	0			0	0	clear	Prof. P. Spina.
San Luis Potosi	24.31	617.4	30.27	768.9	56.3	13.5	73	wsw.			1	3	0	w.		0	0	clear	G. Barroeta, M. D.
Vera Cruz																			
Zacatecas	22.66	575.3	30.29	769.1	50.9	10.5		n.	8.3	3.7		5	0			0	0	½ clouded	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.70	754.4	29.70	754.4	52.7	11.5		w.			4					0.012	0.3		
Groningen	29.58	751.4	29.64	752.8	50.0	10.0		wsw.			4					0.016	0.4		
Helder	29.64	752.8	29.64	752.8	48.9	9.4		sw.			4					0.114	2.9		
Hellevoetsluis	29.70	754.3	29.70	754.3	52.1	11.0	97	wsw.			3					0.020	0.5		
Utrecht	29.64	752.9	29.69	754.1	51.8	11.0	66	sw.			3		8			0.016	0.4	very cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.30	744.3	29.37	745.9	39.2	4.0	84	nnw.	2	1			9			0.094	2.4		
Brono	29.03	752.5	29.67	753.5	34.2	1.2	44	ne.	4	2			8			0	0		
Christiania	29.32	744.8	29.47	748.6	34.7	1.5	91	ne.	13	6			10					raining	
Gjæsvær	29.52	749.8	29.54	750.4	40.5	4.7		s.			2		1						
Lodingen	29.64	752.9	29.69	754.1	28.9	— 1.7	68	wsw.			4–6		10			0.004	0.1	snowing	
PORTUGUESE.																			
Angra, Azores					60.1	15.6	69	e.	3.1	1.4			4			0	0		Dr. J. A. Sampaio.
Campo Major	28.95	735.4	29.94	760.5	64.4	18.0	43	sw.	7.4	3.3			1			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.13	765.3	30.22	767.5	64.2	17.9	51	sw.					1			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.71	754.5	30.07	763.7	60.4	15.8	58	nnw.	20.6	9.2			7			0	0		The Staff.
Ponta Delgada, Azores	30.34	770.7	30.41	772.5	64.8	18.2	49	calm	0	0			4			0	0		
Saint Paul de Loando	29.67	753.5	29.86	758.5	84.6	29.2	82	ne.	0.7	0.3			8			0	0		
Serra da Estrella	25.19	639.6	29.98	761.5	41.0	5.0	69	nw.	20.6	9.2			3			0	0		
RUSSIAN.																			
Akmolinski	29.19	741.4	30.34	770.5	24.3	— 4.3	75	ene.	2	1		5 ck	0			0	0		Major K. Lasarew.
Archangel	29.70	754.4	29.72	754.9	44.8	7.1	62	se.	9	4			9 ks			0	0		Capt. Sselliwerstow.
Astrakhan	30.15	765.7	30.06	763.6	48.6	9.2	53	se.	11	5		0	0			0	0		Capt. Wisganow.
Barnaul	29.69	754.1	30.23	767.8	16.9	— 8.4	69	w.	18	8			3			0	0		Meteorological Obs'y.
Dorpat	29.36	745.8	29.61	752.1	41.0	5.0	83	ene	4	2			10 s			0	0	light clouds	Observatory.
Ekaterinburg	29.30	744.2	30.29	769.4	41.7	5.4	52	ssw.	2	1		1 cs	0			0	0		Meteorological Obs'y.
Kasan	29.95	760.8	30.24	768.0	32.2	0.1	83	s.	16	7			10			0	0		Observatory.
Kertch	29.86	758.5	29.88	759.0	49.5	9.7	71	nne.	4	2		0	4 k			0.079	2.0		Lagorio & Sastyres.
Kieff	29.06	738.1	29.69	754.2	49.3	9.6	76	sw.	4	2		c	10 ks			0.016	0.4		Observatory.
Lugan	29.61	752.0	29.81	757.2	48.6	9.2	60	ssw.	9	4			10			0.055	1.4		Meteorological Obs'y
Moscow	29.23	742.5	29.72	754.8	39.9	4.4	80	s.	7.8	3.5			10 s			0.016	0.4		Meteorological Obs'y.
Nikolaiev	29.84	757.9	29.91	759.7	52.5	11.4	57	wsw.	4	2		cs	9 n			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor	30.00	762.0	30.09	764.2	23.0	— 5.0	79	calm	0	0			4			0	0		Lieut. Iwanow.
Pekin, China	29.98	761.4	30.12	765.0	48.4	9.1	68	se.	7	3		0	5 k			0	0		Physical Observatory
St. Petersburg	29.59	751.5	29.60	751.9	45.3	7.4	70	wnw.	4	2		ck	9 kn			0	0	light clouds	Central Physical Obs
Tashkend, Laboratory	28.46	722.6	30.02	762.6	58.3	14.7	42	calm	0	0			10			0	0		Teich, A. M.
Tiflis	28.56	725.3	29.96	760.9	61.3	16.3	39	calm	0	0		6 cs	0			0	0		Physical Observatory
Vladivostok	30.21	767.4	30.28	769.1	32.0	0.0	60	e.	2	1		0	0			0	0		
Warsaw	29.31	744.4	29.73	755.1	52.2	11.2	77	wsw.	18	8			10 ks			0	0		Astronomical Obs'y
Wilna	29.27	743.5	29.70	754.3	41.4	5.2	71	wsw.	2	1			10			0.047	1.2	heavy cl'ds	Berg, Assistant.
Yeniseisk	29.82	757.5	30.13	765.3	23.2	— 4.9	76	nw.	2	1			6			0.028	0.7		M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	29.75	755.6	29.85	758.2	58.5	14.7	65	s.	3.8	1.7			0			0	0	clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	29.87	758.6	29.93	760.1	60.8	16.0	50	nw.	2.0	0.9		2	0	se.		0	0	almost clear	Prof. Manuel de Naveran:
Burgos, Met. Obs'y	26.93	683.9	29.86	758.4	56.3	13.5	31	w.	5.4	2.4		0	0			0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	27.26	702.6	29.84	757.9	64.8	18.2	32	s.	7.4	3.3		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y	29.76	755.9	29.91	759.7	69.8	21.0	50	s.	4.9	2.2		0	0			0	0	clear	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.10	739.0	30.00	762.1	52.0	11.1	70	nw.	13.0	5.8			8			0.039	1.0	almost cov'd	R. Gil Vallanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I	30.09	764.2	30.15	765.9	76.5	24.7	81	ese.	5.8	2.6		3 c	3 s	w.	ese.	0	0	fair	Benito Vines, S. J.
Manilla, Philippine Islands	29.96	761.0	30.02	762.4	82.4	28.0	60	e.	0.8	0.4		1 c	3 ck		e.	0	0		P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.95	760.7	30.05	763.2	64.6	18.1	44	sw.	4.7	2.1		0	0			0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	30.06	763.6	30.15	765.9	72.7	22.6	97	calm	0	0		2 cs	4 kn	s.	s.	0.080	2.2	d. clouds	Manuel Maeu.
Tuguegarao, Philippine Id's	29.94	760.5	30.08	764.0	76.8	24.9	84	s.	4.9	2.2			10 n		ssw.	0.02	0.5	covered	José L. Yrastorza.
SWEDISH																			
Haparanda	29.65	753.1	29.69	754.1	32.7	0.4	61	nw.			2		0			0	0		
Umea	29.65	753.1	29.70	754.4	38.1	3.4	83	n.			2		6			0	0		
Hernosand	29.65	753.1	29.70	754.4	33.6	0.9	84	calm			0		8			0.004	0.1		
Stockholm	29.48	748.7	29.65	753.2	33.8	1.0	81	ne.			2		10			0	0		
Wisby	29.56	750.7	29.61	752.2	40.3	4.6	74	se.			2		10			0	0		
Sub-series.																			
Upsala	29.55	750.6	29.64	752.8	34.2	1.2	70	ese.	6.9	3.1			10		ese.	0.098	2.5		S. G. Fineman.
SWISS.																			
Geneva	28.42	721.9	29.86	758.4	50.0	10.0	53	n.			2					0	0	clear	The Observatory

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
TURKISH.																			
Constantinople	.....	.....	29.95	760.8	52.7	11.5	61	ne.	13	6.0	.....	.....	10	.....	n.	0	0	.....	The Observatory.
Valona	.....	.....	29.87	758.8	57.6	14.2	.....	s.	.....	.....	1	.....	10	.....	.....	0.59	15.	covered	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	29.85	758.3	66.9	19.4	67	n.	.....	.....	1	0	0	.....	.....	0	0	.....	Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	29.82	757.4	29.91	759.7	45	7.2	63	s.	16	7.2	.....	.....	10 s	.....	w.	inap.	inap.	cloudy	J. O. Barnes.
Alpena, Michigan	29.52	749.8	30.22	767.6	23	— 5.0	73	w.	21	9.4	.....	.....	10 n	.....	nw.	0.27	6.9	light snow	Jas. J. Fitzgerald.
Atlanta, Georgia	29.04	737.6	30.25	768.3	53.0	11.7	64	w.	7	3.1	.....	0	0	.....	.....	0	0	clear	H. Hall.
Atlantic City, New Jersey	30.02	762.5	30.03	762.7	44	6.7	91	s.	12	5.4	.....	7 ck	0	w.	.....	0	0	fair	Jas. M. Watson.
Augusta, Georgia	30.06	763.5	30.26	768.6	48.0	8.9	93	calm	0	0	.....	.....	fg.	.....	.....	0	0	dense fog	John Healy.
Baltimore, Maryland	29.98	761.5	30.03	762.7	45	7.2	76	s.	2	0.9	.....	.....	10 s	.....	.....	0	0	cloudy	Robert Seyboth.
Barnegat, New Jersey	29.99	761.7	30.01	762.2	46.3	7.9	76	s.	14	6.3	.....	7 cs	0	sw.	.....	0	0	fair	Chas. F. Merritt.
Bismarck, Dakota	28.52	724.4	30.44	773.2	16	— 8.9	83	ne.	6	2.7	.....	10 k	0	w.	.....	inap.	inap.	cloudy	Cyrus Cramer.
Boise City, Idaho	27.50	698.5	30.42	772.7	43	6.1	76	nw.	4	1.8	.....	0	0	.....	.....	0	0	clear	B. E. Light.
Boston, Massachusetts	29.82	757.4	29.98	761.5	38.0	3.3	72	s.	12	5.4	.....	.....	10 s	.....	.....	0	0	cloudy	O. B. Cole.
Brownsville, Texas	30.05	763.3	30.10	764.5	70	21.1	94	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	J. C. Galloway.
Buffalo, New York	29.28	743.7	30.07	763.8	33.8	1.0	72	w	13	5.8	.....	.....	10 ks	.....	w.	0.04	1.0	cloudy	Wm. Finn.
Burlington, Vermont	29.47	748.5	29.78	756.4	41.0	5.0	67	s.	25	11.2	.....	2 cs	8 s	sw.	sw.	0	0	cloudy	G. C. Schaeffer.
Cairo, Illinois	29.95	760.7	30.37	771.4	50.7	10.4	62	n.	12	5.4	.....	0	0	.....	.....	0	0	clear	W. H. Ray.
Campo, California	27.57	700.3	30.18	766.6	37.8	3.2	82	se.	3	1.3	.....	0	0	.....	.....	0	0	clear	W. H. Clendenon.
Camp Thomas, Arizona	27.37	695.2	30.15	765.8	46	7.8	76	se.	.....	.....	1	0	0	.....	.....	0	0	clear	J. T. Fitzgerald.
Cape Henry, Virginia	30.10	764.5	30.12	765.0	48	8.9	77	sw.	12	5.4	.....	0	0	.....	.....	0	0	clear	J. E. Lanouette.
Cape May, New Jersey	30.02	762.5	30.05	763.3	52	11.1	72	s.	13	5.8	.....	8 cs	0	s.	.....	0	0	cloudy	W. Bolten.
Castroville, Texas	29.28	743.7	30.12	765.0	68	20.0	84	s.	3	1.3	.....	.....	10 s	.....	.....	0	0	cloudy	T. Jones.
Cedar Keys, Florida	30.24	768.1	30.26	768.6	62	16.7	87	n.	4	1.8	.....	0	4 ks	.....	.....	0	0	fair	F. W. Mixer.
Champaign, Illinois	29.49	749.0	30.35	770.9	32.0	0.0	78	nw.	11	4.9	.....	9 ck	0	nw.	.....	0	0	cloudy	L. A. Welsh.
Charleston, S. Carolina	30.16	766.1	30.22	767.6	56	13.3	93	sw.	5	2.2	.....	0	fg.	.....	.....	0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.30	744.2	30.18	766.6	47.0	8.3	100	s.	2	0.9	.....	.....	fg.	.....	.....	0	0	dense fog	D. O. Donoghue.
Chattanooga, Tennessee	29.42	747.3	30.27	768.8	50.0	10.0	80	w.	2	0.9	.....	0	fg.	.....	.....	0	0	clear	B. L. Goulding.
Cheyenne, Wyoming	24.17	613.9	30.35	770.9	38.3	3.5	27	w.	5	2.2	.....	0	0	.....	.....	0	0	clear	E. McGovern.
Chicago, Illinois	29.60	751.8	30.34	770.6	33.6	0.9	83	nw.	7	3.1	.....	0	0	.....	.....	inap.	inap.	clear	J. Mitchell.
Chincoteague, Virginia	30.05	763.3	30.07	763.8	47	8.3	86	sw.	7	3.1	.....	2 c	0	.....	.....	0	0	clear	F. C. Pratz.
Cincinnati, Ohio	29.60	751.8	30.29	769.4	46	7.8	60	nw.	9	4.0	.....	3 c	0	w.	.....	inap.	inap.	clear	R. B. Watkins.
Cleveland, Ohio	29.43	747.5	30.21	767.3	36	2.2	89	n.	12	5.4	.....	.....	9 s	.....	n.	0.09	2.3	cloudy	J. B. Newlin.
Coleman City, Texas	28.29	718.6	30.14	765.5	50	10.0	74	w.	5	2.2	.....	0	0	.....	.....	0	0	clear	L. Dorman.
Columbus, Ohio	29.33	745.0	30.22	767.6	44	6.7	68	nw.	16	7.2	.....	0	0	.....	.....	0.04	1.0	clear	D. Cuthbertson.
Concho, Texas	28.16	715.3	30.13	765.3	46	7.8	86	nw.	2	0.9	.....	0	0	.....	.....	0	0	clear	W. W. McConihe.
Davenport, Iowa	29.74	755.4	30.43	772.9	31	— 0.6	68	nw.	7	3.1	.....	9 k	0	nw.	.....	0	0	cloudy	R. R. Martin.
Dayton, Washington T'y	28.48	723.4	30.29	769.4	47.3	8.5	62	s.	3	1.3	.....	0	4 s	.....	.....	0	0	fair	H. Clifford.
Deadwood, Dakota	25.46	646.7	30.30	769.6	26	— 3.3	80	calm	0	0	.....	0	0	.....	.....	0.02	0.5	clear	G. W. Scott.
Decatur, Texas	.....	.....	.....	.....	55	12.8	62	nw.	12	5.4	.....	0	0	.....	.....	0	0	clear	D. J. Carr.
Delaware Breakwater, Del.	30.02	762.5	30.04	763.0	45	7.2	83	s.	20	8.9	.....	6 cs	0	w.	.....	0	0	fair	A. Schneider.
Denison, Texas	29.30	744.2	30.13	765.3	61.0	16.1	84	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. McGlone.
Denver, Colorado	24.92	633.0	30.36	771.1	36.4	2.4	63	n.	4	1.8	.....	0	4 s	.....	calm	0	0	fair	F. M. Neal.
Des Moines, Iowa	29.54	750.3	30.50	774.7	28	— 2.2	64	n.	6	2.7	.....	.....	10 s	.....	n.	0	0	cloudy	F. W. Conrad.
Detroit, Michigan	29.48	748.8	30.23	767.8	37.2	2.9	72	nw.	9	4.0	.....	.....	10 s	.....	w.	0.02	0.5	cloudy	C. F. R. Wappenhans.
Dodge City, Kansas	27.67	702.8	30.40	772.1	33.7	0.9	80	ne.	13	5.8	.....	0	0	.....	.....	0	0	clear	E. A. Thomas.
Dubuque, Iowa	29.66	753.4	30.41	772.4	29.3	— 1.5	67	nw.	4	1.8	.....	2 cs	5 s	n.	w.	inap.	inap.	fair	J. Harvey Smith.
Duluth, Minnesota	29.73	755.1	30.47	773.9	12	—11.1	80	sw.	4	1.8	.....	0	0	.....	.....	0	0	clear	N. B. Conger.
Eagle Pass, Texas	29.28	743.7	30.10	764.5	59.2	15.1	93	se.	7	3.1	.....	0	0	.....	.....	0	0	clear	F. Belford.
Eagle Rock, Idaho	25.53	648.5	30.40	772.1	32	0.0	74	w.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. M. Clifford.
Eastport, Maine	29.95	760.7	30.02	762.5	35	1.7	66	s.	18	8.0	.....	.....	10 s	.....	s.	0	0	cloudy	J. H. Melton.
El Paso, Texas	26.38	670.0	30.19	766.8	51	10.6	38	nw.	7	3.1	.....	0	0	.....	.....	0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.40	746.7	30.16	766.1	35	1.7	79	nw.	19	8.5	.....	.....	10 n	.....	nw.	0.06	1.5	light snow	R. H. Paxton.
Escanaba, Michigan	29.57	751.1	30.28	769.1	24	— 4.4	80	n.	6	2.7	.....	5 k	0	nw.	.....	0.11	2.8	fair	C. Dill.
Florence, Arizona	28.61	726.7	30.18	766.6	47.9	8.8	56	w.	4	1.8	.....	0	0	.....	.....	0	0	clear	R. R. Herman.
Fort Apache, Arizona	25.13	638.3	30.15	765.8	30	— 1.1	61	ne.	3	1.3	.....	0	0	.....	.....	0	0	clear	W. C. Barnes.
Fort Assinnaboine, Montana	27.18	690.4	30.19	766.8	23	— 5.0	64	se.	1	0.4	.....	.....	10 s	.....	.....	0.08	2.0	cloudy	B. O. Lenoir.
Fort Bennett, Dakota	28.73	729.7	30.43	772.9	25	— 3.9	76	e.	1	0.4	.....	0	5 s	.....	.....	0.01	0.3	fair	T. Gibson.
Fort Benton, Montana	27.21	691.1	30.19	766.8	27	— 2.8	67	calm	0	0	.....	6 k	0	calm	.....	0	0	fair	S. Wheaton.
Fort Buford, Dakota	28.23	717.0	30.37	771.4	19	— 7.2	70	w.	14	6.3	.....	0	7 s	.....	calm	0	0	fair	A. H. Bell.
Fort Custer, Montana	26.93	684.0	30.26	768.6	28	— 2.2	67	sw.	2	0.9	.....	0	4 s	.....	calm	0	0	fair	V. Verge.
Fort Davis, Texas	25.27	641.8	30.15	765.8	45	7.2	65	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. Williams.
Fort Elliott, Texas	27.38	695.4	30.21	767.3	42	5.6	46	ne.	4	1.8	.....	0	0	.....	.....	0	0	clear	W. J. Cundall.
Fort Gibson, Indian T'y	29.64	752.8	30.23	767.8	53.5	11.9	73	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. B. Campbell.
Fort Grant, Arizona	25.41	645.4	30.24	768.1	42	5.6	21	e.	2	0.9	.....	0	0	.....	.....	0	0	clear	T. J. Macgowan.
Fort Griffin, Texas	28.82	732.0	30.17	766.3	52	11.1	72	calm	0	0	.....	0	0	.....	.....	0	0	clear	G. H. Hayne.
Fort Keogh, Montana	27.65	702.3	30.30	769.6	26	— 3.3	56	e.	4	1.8	.....	4 cs	0	.....	.....	0	0	fair	W. B. Stockman.
Fort Macon, North Carolina	30.19	766.8	30.20	767.1	51	10.6	86	nw.	2	0.9	.....	hz.	0	calm	.....	0	0	clear	L. Leonardy.
Fort McKavett, Texas	27.88	708.1	30.20	767.1	50	10.0	55	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. E. Thatcher.
Fort Missoula, Montana	26.87	682.5	30.25	768.3	38	3.3	73	sw.	4	1.8	.....	0	5 s	.....	.....	0	0	fair	J. H. Jones.
Fort St. Michaels, Alaska	30.33	770.4	30.37	771.4	1	—17.2	100	s.	6	2.7	.....	.....	10 s	.....	.....	0	0	cloudy	A. P. Leavitt.
Fort Shaw, Montana	26.37	669.8	30.17	766.3	44	6.7	35	sw.	26	11.6	.....	10 cs	0	w.	.....	0	0	cloudy	A. L. Mathews.
Fort Sill, Indian Territory	28.88	733.5	30.17	766.3	52.5	11.4	66	ne.	12	5.4	.....	0	0	.....	.....	0	0	clear	T. Cleary.
Fort Stevenson, Dakota	28.45	722.6	30.43	772.9	10	—12.2	80	n.	9	4.0	.....	.....	10 s	.....	calm	0	0	cloudy	W. Burrows
Fort Verde, Arizona	.....	.....	.....	.....	42.9	6.1	47	w.	.....	.....	1	0	0	.....	.....	0	0	clear	D. Brooks.
Fort Washakie, Wyoming	24.62	625.3	.....	.....	30.3	— 0.9	65	sw.	5	2.2	.....	0	0	.....	.....	0	0	clear	T. M. Ambler.
Fredericksburg, Texas	28.35	720.1	30.11	764.8	63	17.2	93	calm	0	0	.....	.....	10 ks	.....	sw.	0	0	cloudy	H. S. Miles.
Galveston, Texas	30.10	764.5	30.14	765.5	68	20.0	95	s.	6	2.7	.....	5 cs	hz.	w.	.....	0	0	fair	E. O'C. MacInernev.
Grand Haven, Michigan	29.57	751.1	30.27	768.8	34.0	1.1	56	nw.	16	7.2	.....	2 k	5 s	nw.	nw.	0.03	0.8	fair	W. A. Reid.
Hatteras, North Carolina	30.14	765.5	30.16	766.1	50	10.0	86	nw.	4	1.8	.....	hz.	0	.....	.....	0	0	clear	R. M. Crawford.
Helena, Montana	25.86	656.8	30.23	767.8	43	6.1	53	w.	2	0.9	.....	10 k	0	.....	.....	0	0	cloudy	N. C. Smith.
Henrietta, Texas	29.12	739.6	30.16	766.1	54	12.2	80	n.	6	2.7	.....	0	0	.....	.....	0	0	clear	J. W. Byram.
Huron, Dakota	29.06	738.1	30.54	775.7	24	— 4.4	73	n.	4	1.8	.....	.....	10 s	.....	nw.	inap.	inap.	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.45	748.0	30.29	769.4	37	2.8	82	nw.	8	3.6	.....	0	hz.	.....	calm	0	0	clear	O. Schutze
Indianola, Texas	30.09	764.3	30.12	765.0	67.8	19.9	100	s.	5	2.2	.....	0	6 k	.....	s.	0	0	fair	I. A. Reed.
Jacksboro, Texas	28.92	734.6	30.13	765.3	51	10.6	80	n.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. P. Sherry.
Jacksonville, Florida	30.18	766.6	30.23	767.8	60	15.6	81	sw.	6	2.7	.....	0	0	.....	.....	0	0	clear	J. W. Smith.
Keokuk, Iowa	29.72	754.9	30.41	772.4	30.0	— 1.1	78	n.	8	3.6	.....	.....	10 s	.....	w.	0	0	cloudy	F. Z. Gosewisch
Key West, Florida	30.17	766.3	30.19	766.8	77.0	25.0	79	e.	5	2.2	.....	5 cs	4 k	.....	e.	0	0	cloudy	L. M. Melbourne.
Kittyhawk, North Carolina	30.14	765.5	30.16	766.1	47.5	8.6	89	w.	6	2.7	.....	hz.	0	.....	.....	0	0	clear	E. A. Beals.
Knoxville, Tennessee	29.20	741.7	30.26	768.6	50.3	10.2	60	sw.	2	0.9	.....	1 ck	1 s	w.	.....	0	0	clear	J. A. Cody.
La Crosse, Wisconsin	29.58	751.3	30.40	772.1	27	— 2.8	77	w.	8	3.6	.....	4 c	0	w.	.....	0	0	fair	S. C. Emery.
La Mesilla, New Mexico	26.21	665.7	30.16	766.1	45.2	7.3	49	n.	1	0.4	.....	0	0	.....	.....	0	0	clear	N. D. Lane.
Leavenworth, Kansas	29.53	750.0	30.47	773.9	35	1.7	64	n.	8	3.6	.....	6 k	0	nw.	.....	0	0	fair	A. W. Browne.
Lewiston, Idaho	29.43	747.5	30.29	769.4	39.2	4.0	61	ne.	1	0.4	.....	0	1 s	.....	.....	0	0	clear	W. Blake.
Little Rock, Arkansas	29.90	759.4	30.23	767.8	62	16.7	56	n.	6	2.7	.....	0	0	.....	.....	0	0	clear	M. F. Burrows.
Los Angeles, California	29.81	757.2	30.21	767.3	54.2	12.3	86	calm	0	0	.....	.....	10 s	.....	calm	inap	inap.	cloudy	E. F. Kubel.
Louisville, Kentucky	29.67	753.6	30.26	768.6	47	8.3	56	w.	14	6.3	.....	0	0	.....	.....	0	0	clear	H. C. Smith.
Lynchburg, Virginia	29.38	746.2	30.10	764.5	50.0	10.0	82	sw.	1	0.4	.....	6 cs	fg.	.....	.....	0	0	fair	T. H. Breen.
Madison, Wisconsin	29.32	744.7	30.39	771.9	27	— 2.8	77	nw.	10	4.5	.....	5 cs	0	nw.	.....	0	0	fair	C. A. Shaw.
Marquette, Michigan	29.52	749.8	30.29	769.4	19	— 7.2	84	nw.	10	4.5	.....	.....	10 s	.....	nw.	0.10	2.5	cloudy	I. Gilligan.
Mason, Texas	28.44	722.4	30.13	765.3	50.5	10.3	85	nw.	2	0.9	.....	0	0	.....	.....	0	0	clear	A. M. Wilson.
Memphis, Tennessee	29.92	760.0	30.28	769.1	60	15.6	50	ne.	4	1.8	.....	2 cs	0	sw.	.....	0	0	clear	D. T. Flannery.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind.		Clouds. Direction.		Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–01	0–10	0–10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Milwaukee, Wisconsin	29.55	750.6	30.34	770.6	31	— 0.6	78	nw.	11	4.9	.....	5 c	0	nw.	.....	0	0	fair	W. Line.
Mobile, Alabama	30.20	767.1	30.24	768.1	55	12.8	93	calm	0	0	.....	.....	fg.	.....	.....	0	0	dense fog	J. D. Paxton.
Montgomery, Alabama	30.02	762.5	30.26	768.6	52	11.1	90	calm	0	0	.....	0	hz.	.....	.....	0	0	clear	J. B. McLaughlin.
Moorhead, Minnesota	29.47	748.5	30.55	776.0	2	—16.7	72	sw.	0	0	.....	0	0	.....	.....	0	0	clear	H. Bessant.
Morgantown, W. Virginia	29.07	738.4	30.13	765.3	54.5	12.5	74	sw.	4	1.8	.....	0	5 s	.....	sw.	inap.	inap.	fair	J. Sprigg, jr.
Mt. Washington, N. H.	29.07	738.4	30.13	765.3	54.5	12.5	74	w.	64	28.6	.....	.....	con; fg	.....	w.	0.17	4.3	light snow	J. G. Linsley.
Nashville, Tennessee	23.47	596.1	29.99	761.7	25.0	— 3.9	90	n.	4	1.8	.....	0	5 ks	.....	nw.	0	0	fair	L. A. Jesunofsky.
New Haven, Connecticut	29.71	754.6	30.27	768.8	56.5	13.6	48	s.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	J. H. Sherman.
New London, Connecticut	29.89	759.2	30.01	762.2	40	4.4	86	se.	11	4.9	.....	5 c	3 s	s.	se.	0	0	cloudy	J. G. Lynch.
New Orleans, Louisiana	30.00	762.0	30.05	763.3	41	5.0	82	se.	3	1.3	.....	1 c	hz.	w.	.....	0	0	clear	A. J. Armstrong.
Newport, Rhode Island	30.13	765.3	30.19	766.8	61.3	16.3	86	s.	15	6.7	.....	6 ck	3 s	sw.	s.	0	0	cloudy	W. McGillivray.
New River, N. Carolina	29.98	761.5	30.04	763.0	41.0	5.0	70	nw.	.....	.....	1	2 c	2 s	w.	.....	0	0	fair	C. C. Corbin.
New Shoreham, Rhode I'd	.....	.....	.....	.....	51	10.6	86	s.	22	9.8	.....	3 c	0	sw.	.....	0	0	clear	W. Davis.
New York, New York	30.01	762.2	30.04	763.0	42.0	5.6	65	s.	12	5.4	.....	.....	10 s	.....	sw.	0.03	0.8	cloudy	E. B. Garriott.
Norfolk, Virginia	29.83	757.7	30.01	762.2	40	4.4	89	sw.	4	1.8	.....	0	hz.	.....	.....	0	0	clear	J. T. Elker.
North Platte, Nebraska	30.09	764.3	30.12	765.0	49	9.4	77	calm	0	0	.....	0	0	.....	.....	0	0	clear	E. F. Brady.
Olympia, Washington T'y	27.41	696.2	30.47	773.9	30.6	— 0.8	77	s.	5	2.2	.....	.....	10 s	.....	calm	inap.	inap.	cloudy	J. Dascomb.
Omaha, Nebraska	30.23	767.8	30.27	768.8	47.0	8.3	86	n.	10	4.5	.....	2 c	3 s	.....	.....	0	0	fair	A. Pollak.
Ooglaamie, Pt. Barrow, Alas.	29.26	743.2	30.51	774.9	29.3	— 1.5	74	nnw	18	8.0	.....	.....	10 s	.....	.....	0	0	cloudy	P. H. Ray.
Oswego, New York	30.01	762.2	30.03	762.7	—10.2	—23.4	91	nw.	16	7.2	.....	0	8 s	.....	w.	0.06	1.5	cloudy	S. W. Beall.
Palestine, Texas	29.57	751.1	29.91	759.7	37.8	3.2	74	s.	9	4.0	.....	0	8 ks	.....	s.	0	0	fair	L. M. Pindell.
Pensacola, Florida	29.61	752.1	30.18	766.6	63.0	17.2	90	s.	4	1.8	.....	0	0	.....	.....	0	0	clear	M. McGauran.
Philadelphia, Pa.	30.22	767.6	30.25	768.3	52.1	11.2	100	sw.	6	2.7	.....	.....	10 s	.....	sw.	0	0	cloudy	T. F. Townsend.
Pike's Peak, Colorado	29.91	759.7	30.01	762.2	46	7.8	76	nw.	20	8.9	.....	0	0	.....	.....	0	0	clear	L. M. Dey.
Ploche, Nevada	17.86	453.6	30.45	773.4	16.5	— 8.6	67	nw.	7	3.1	.....	0	0	.....	.....	0	0	clear	C. K. Kitchel.
Pittsburg, Pennsylvania	24.32	617.7	30.46	773.7	41	5.0	54	nw.	13	5.8	.....	5 ck	0	nw.	.....	0	0	fair	J. H. Bryce.
Port Eads, Louisiana	29.27	743.4	30.12	765.0	49.7	9.8	59	e.	3	1.3	.....	2 c	0	w.	.....	0	0	clear	H. G. Christian.
Port Huron, Michigan	30.19	766.8	30.20	767.1	64.0	17.8	93	nw.	11	4.9	.....	.....	10 ks	.....	nw.	0.13	3.3	cloudy	W. O. Bailey.
Portland, Maine	29.52	749.8	30.24	768.1	31.4	— 0.3	71	s.	14	6.3	.....	.....	10 n	.....	s.	0.01	0.3	light rain	D. C. Murphy.
Portland, Oregon	29.90	759.4	29.95	760.7	41.0	5.0	82	calm	0	0	.....	0	1 s	.....	.....	0	0	clear	M. L. Hearne.
Portsmouth, N. Carolina	30.21	767.3	30.29	769.4	43.0	6.1	92	w.	5	2.2	.....	hz.	hz.	calm	calm	0	0	light haze	F. P. Chaffee.
Prescott, Arizona	.....	.....	.....	.....	49	9.4	71	s.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. McN. Wright.
Provincetown, Mass	24.95	633.7	30.29	769.4	38	3.3	34	s.	16	7.2	.....	3 cs	2 s	sw.	.....	0	0	fair	P. T. Jenkins.
Punta Rassa, Florida	30.01	762.2	30.04	763.0	40	4.4	82	nw.	4	1.8	.....	.....	10 n	.....	calm	inap.	inap.	light rain	W. J. Evans.
Red Bluff, California	30.19	766.8	30.20	767.1	71.5	21.9	76	n.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.77	756.1	30.15	765.8	55.2	12.9	62	se.	4	1.8	.....	.....	fg.	.....	se.	0	0	foggy	W. H. Taylor.
Rochester, New York	29.88	758.9	30.12	765.0	70	21.1	76	w.	25	11.2	.....	.....	10 ks	.....	w.	0.01	0.3	cloudy	A. T. Sherwood.
Roseburg, Oregon	29.28	743 7	29.98	761.5	35	1.7	79	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. J. Nanry.
Sacramento, California	29.74	755.4	30.30	769.6	41	5.0	88	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. A. Barwick.
St. Louis, Missouri	30.05	763.3	30.13	765.3	56.8	13.8	80	n.	10	4.5	.....	3 c	2 k	n.	nw.	0	0	fair	J. H. Webber.
St. Paul, Minnesota	29.78	756.4	30.41	772.4	39.1	3.9	65	nw.	10	4.5	.....	0	0	.....	.....	0	0	clear	O. S. M. Cone.
St. Vincent, Minnesota	29.56	750.8	30.48	774.2	17.0	— 8.3	76	w.	6	2.7	.....	0	0	.....	.....	0	0	clear	G. Kingsbury.
Salt Lake City, Utah	29.58	751.3	30.52	775.2	—13	—25.0	100	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. Craig.
San Antonio, Texas	25.94	658.9	30.46	773.7	41	5.0	52	s.	3	1.3	.....	.....	10 s	.....	.....	0	0	cloudy	E. Lane.
San Diego, California	29.40	746.7	30.10	764.5	65.6	18.7	93	calm	0	0	.....	.....	fg.	.....	.....	0	0	dense fog	A. C. Dobbins.
Sandusky, Ohio	30.12	765.0	30.19	766.8	55.0	12.8	86	n.	23	10.3	.....	0	0	.....	.....	0.08	2.0	clear	M. H. Perry.
Sandy Hook, New Jersey	29.59	749.3	30.22	767.6	38.8	3.8	82	s.	14	6.3	.....	10 ck	0	s.	.....	0	0	cloudy	B. A. Blundon.
San Francisco, California	29.96	761.0	30.00	762.0	43.0	6.1	83	nw.	1	0.4	.....	0	0	.....	.....	0	0	clear	N. Gorom.
Santa Fé, New Mexico	30.07	763.8	30.14	765.5	55	12.8	80	n.	10	4.5	.....	0	0	.....	.....	0	0	clear	H. N. Jones.
Savannah, Georgia	23.35	593.1	30.33	770.4	39	3.9	52	s.	2	0.9	.....	0	0	.....	.....	0	0	clear	H. M. Ford.
Shreveport, Louisiana	30.14	765.5	30.23	767.8	57	13.9	74	s.	2	0.9	.....	0	0	.....	.....	0	0	clear	E. N. Meekins.
Silver City, New Mexico	29.95	760.7	30.20	767.1	61	16.1	93	s.	2	0.9	.....	3 ck	0	.....	.....	0	0	clear	J. B. Wallace.
Sitka, Alaska	24.39	619.5	30.17	766.3	40	4.4	40	w.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. J. McLean.
Smithville, North Carolina	29.69	754.1	29.96	755.9	22.5	— 5.3	73	ne.	8	3.6	.....	0	0	.....	.....	0.05	1.3	clear	J. C. Rickli.
Spokane Falls, Wash. Ter.	30.16	766.1	30.20	767.1	54	12.2	100	nw.	3	1.3	.....	.....	10 s	.....	nw.	0.02	0.5	cloudy	D. Moore.
Springfield, Illinois	28.16	715.3	30.29	769.4	40	4.4	73	sw.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	T. B. Jennings.
Springfield, Massachusetts	29.69	754.1	30.41	772.4	33.5	0.8	64	n.	9	4.0	.....	1 c	6 s	w.	w.	0	0	fair	T. S. Outram.
Springfield, Mo	29.84	757.9	29.98	761.5	39.2	4.0	89	s.	8	3.6	.....	.....	10 s	.....	s.	0	0	cloudy	J. B. Marbury.
Stockton, Texas	28.86	733.0	30.42	772.7	43	6.1	71	ne.	10	4.5	.....	0	0	.....	.....	0	0	clear	J. O'Dowd.
Thatcher's Island, Mass	27.08	687.8	30.16	766.1	45.0	7.2	100	s.	4	1.8	.....	0	0	.....	.....	0	0	clear	G. Liebmann.
Toledo, Ohio	29.98	761.5	30.04	763.0	36.5	2.5	80	s.	28	12.5	.....	.....	10 s	.....	sw.	0	0	cloudy	A. Buell.
Tucson, Arizona	29.47	748.5	30.20	767.1	42	5.6	65	nw.	5	2.2	.....	0	3 k	.....	nw.	0.01	0.3	clear	J. L. Whiteside.
Umatilla, Oregon	27.72	704.1	30.18	766.6	50	10.0	59	se.	2	0.9	.....	0	0	.....	.....	0	0	clear	R. P. Sibley.
Uvalde, Texas	29.91	759.7	30.29	769.4	48.0	8.9	63	w.	3	1.3	.....	7 cs	0	.....	.....	0	0	cloudy	E. C. Imlay.
Vicksburg, Mississippi	29.11	739.4	30.09	764.3	65	18.3	93	se.	2	0.9	.....	.....	10 s	.....	calm	0	0	clear	T. J. Kenan.
Visalia, California	29.96	761.0	30.22	767.6	56	13.3	80	s.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. T. Cochran.
Washington, D. C.	29.74	755 4	30.12	765.0	55.7	13.2	85	sw.	1	0.4	.....	0	0	.....	.....	0	0	cloudy	B. M. Purssell.
West Las Animas, Colorado	29.92	760.0	30.04	763.0	47.5	8.6	93	s.	6	2.7	.....	.....	10 s	.....	sw.	0	0	clear	J. Grover.
Wickenburg, Arizona	26.22	666.0	30.30	769.6	35	1.7	66	e.	4	1.8	.....	0	0	.....	.....	0	0	clear	H. A. Kremp.
Williamsport, Pa	.....	.....	.....	.....	49.5	9.7	58	calm	.....	.....	0	0	0	.....	.....	0	0	cloudy	B. F. Hough.
Wilmington, N. Carolina	29.33	745.0	29.96	761.0	45.5	7.5	73	ne.	4	1.8	.....	.....	10 ks	.....	w.	0	0	cloudy	S. A. Haney.
Winnemucca, Nevada	30.13	765.3	30.19	766.8	55	12.8	86	w.	1	0.4	.....	.....	fog; fg	.....	calm	0.03	0.8	clear	J. R. Williams.
Yankton, Dakota	25.88	657.3	30.38	771.6	36	2.2	72	ne.	11	4.9	.....	0	0	.....	.....	0	0	cloudy	J. H. Attfield.
Yuma, Arizona	29.13	739.9	30.52	775.2	28	— 2.2	77	se.	2	0.9	.....	.....	10 ks	.....	.....	0	0	clear	O. D. Stewart.
Sub-series.	29.93	760.2	30.09	764.3	57.2	14.0	53	s.	2	0.9	.....	0	0	.....	.....	0	0	clear	
Bogota, U. S. Columbia	22.08	560.8	.....	.....	51.0	10.6	76	calm	0	0	.....	1 k	1 ks; s	.....	.....	0.04	1.0	fair	Joaquin Gomez.
Bridgetown, Barbados, W. I.	30.07	763.8	30.08	764.0	80	26.7	86	e.	.....	.....	.....	2 ck	5 ks	n.	n.	0	0	fair	J. A. Racker.
Buenaventura, U. S. C.	30.04	763.0	30.06	763.5	76	24.4	90	s.	4	1.8	.....	.....	10 ks	.....	s.	0.03	0.8	cloudy	J. I. Plume.
Guadeloupe, W. I.	29.99	761.7	30.01	762.2	77	25.0	87	se.	.....	.....	.....	2 k	5 ks	.....	.....	1.200	32.0	.....	B. Bigar.
Havana, Cuba, W. I.	30.14	765 5	30.20	767.1	78	25.6	82	n.	1.2	0.5	.....	8 cs	5 ks	calm	calm	0	0	cloudy	A. Van Caneghem.
Kingston, Jamaica, W. I.	30.14	765.5	30.15	765.8	74.8	23.8	81	n.	1	0.4	.....	0	8 s; n	.....	e.	0	0	fair	Robert Johnston.
Navassa	30.16	766.1	30.24	768.1	75.5	24.2	71	ne.	3	1.3	.....	2 ck	5 s	e.	ne.	0	0	.....	F. M. Everett.
Paramaribo, S. A.	30.05	763.3	30.05	763.3	77	25.0	86	e.	.....	.....	3	4 c	5 ps	e.	.....	0	0	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.47	748.5	29.93	760.2	83	28.3	67	calm	.....	.....	0	.....	10 s	.....	calm	0	0	foggy	Miss Flora A. Nichols.
Rivas	.....	.....	.....	.....	.....	.....	40	ne.	.....	.....	2	0	0	.....	.....	0	0	clear	Robert Mason.
Santiago de Cuba, W. I.	30.11	764.8	30.14	765.5	74	23.3	67	nw.	3.6	1.6	.....	7 c	0	.....	.....	0	0	cloudy	
York Factory, B. A.	30.19	766.8	30.24	768.1	—22.0	—30.0	.....	se.	10	4.5	.....	3 k	2 s	s.	se.	0	0	fair	W. Wood.

STATIONS AND VESSELS.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
BRITISH NAVAL.																		
H. M. S. Agincourt, N. 38° 20′, E. 5° 40′	29.98	761.5	57.5	14.2	87	nnw.			3		3	wsw.				2	w.	d. clouds.
H. M. S. Alert, S. 5° 39′ E. 53° 36′	29.83	757.7	86	30.0	75	s.			2		5							d. clouds.
H. M. S. Alexandra, Naples, Italy	29.76	755.9	62.5	16.9	58	ne.			3–5		6	ene.						squally.
H. M. S. Bacchante, Jaffa Roads, Egypt	29.85	758.2	68	20.0	74	nnw.			1		3	nnw.						d. clouds.
H. M. S. Boadicea, S. 34° 11′, E. 18° 26′	29.91	759.7	72	22.2	73	wnw.			3–4		2	w.						d. clouds.
H. M. S. Cleopatra, N. 12° 33′ E. 47° 13′	29.80	756.9	81	27.2	95	e.			3		2	ene.						d. clouds.
H. M. S. Comus, N. 4° 50′, E. 125° 30′	29.90	759.4	81	27.2	95	ne.			2–4		10					3	ne.	showery.
H. M. S. Daring, N. 15° 25′ E. 119° 25′	29.99	761.7	82	27.8		ne.			2		2	e.						d. clouds.
H. M. S. Diamond, S 35° 02′, E. 117° 50′	30.20	767.1	63	17.2	88	calm			0		1	sse						blue sky.
H. M. S. Dido, N. 17° 00′, W. 61° 45′	30.15	765.8	77	25.0		e.			1–3		3	ne.						squally.
H. M. S. Druid, N. 18° 11′, W. 76° 27′	30.13	765.3	73	22.8	95	s.			1		4	se.						d. clouds.
H. M. S. Eclipse, S. 15° 43′, E. 46° 20′	29.85	758.2	82	27.8		ssw.			2		3							d. clouds.
H. M. S. Euryalus, N. 12° 45′, E. 50° 12′	29.78	756.4	82	27.8	78	e.			2–3		0							blue sky.
H. M. S. Fawn, N. 15° 04′, E. 42° 14′	29.72	754.9	81	27.2	80	nnw.			1		6					1	n.	d. clouds.
H. M. S. Flying Fish, N. 34° 41′, E. 135° 12′	30.37	771.4	52	11.1	66	calm			0		3							d. clouds.
H. M. S. Gannet, S. 33° 01′, W. 71° 37′	30.08	764.0	61	16.1	77	calm			0		1	s.						blue sky.
H. M. S. Garnet, Montevideo, Uruguay	29.94	760.5	68	20.0	79	n.			3		6							d. clouds.
H. M. S. Griffon, N. 23° 44′ W. 74° 50′	30.19	766.8	75	23.9	81	e.			1		3					3	ene.	d. clouds.
H. M. S. Inconstant, S. 24° 20′ E. 61° 30′	30.08	764.0	77	25.0	95	e.			3–4		3	e.				2	e.	d. clouds.
H. M. S. Iris, N. 32° 10′, E. 28° 23′	29.79	756.7	68	20.0	69	nw.			1		2					1	nw.	misty.
H. M. S. Iron Duke, N. 22° 16′, E. 114° 10′	30.07	763.8	70	21.1	95	ene.			1		5	ne.						d. clouds.
H. M. S. Lark, S. 13° 50′, E. 161° 54′	29.83	757.7	83.3	28.5		e.			3		10					4	e.	squally.
H. M. S. Liffey, Coquimbo, Chili	30.09	764.3	61	16.1		calm			0		3							d. clouds.
H. M. S. Magpie, N. 32° 44′, E. 129° 51′	30.26	768.6	58.5	14.7	76	calm			0		10							misty.
H. M. S. Orontes, N. 33° 21′, E. 27° 11′	29.82	757.4	66.5	19.2	96	w.			2		10					1	wsw.	overcast.
H. M. S. Rambler, St. Paul de Loando, Benguela	29.85	758.2	81	27.2		nnw.			1		7	calm						d. clouds.
H. M. S. Ready, Muscat, Arabia	29.88	758.9	74.1	23.4		calm			0		10							showery.
H. M. S. Rocket, Vancouver Island, British Columbia	30.18	766.6	44	6.7	92	calm			0		8	ese.						d. clouds.
H. M. S. Sea Gull, S. 4° 37′, E. 55° 27′	30.23	767.8	85	29.4	87	nne.			1									
H. M. S. Thalia, S. 34° 50′, W. 7° 46′	30.10	764.5	67	19.4		sse.			2		1					3	nw.	blue sky.
H. M. S. Triumph, Valparaiso, Chili	30.07	763.8	63	17.2	78	calm			0		1	calm						blue sky.
H. M. S. Tyne, N. 3° 40′, E. 105° 27′	29.90	759.4	80.5	26.9	95	se.			1		1					1	nnw.	blue sky.
PORTUGUESE NAVAL.																		
Quanza, St. Vincent, Cape Verd Islands	30.10	764.4	74.5	23.6	78	ne.			4		5		sw.			3	ne.	d. clouds.
Rio Lima, Porto Praya, Cape Verd Islands	30.10	764.5	76.3	24.6	69	ne.			2		5		ne.			1		d. clouds.
Tamega, Macao, China	30.05	763.3	69.8	21.0	82	calm			0		8							
SWEDISH NAVAL.																		
Baldér, N. 34° 38′ W. 74° 31′	30.11	764.9	63.7	17.6	90	nw.			3		2							d. clouds.
UNITED STATES NAVAL.																		
Navy Yard, Pensacola, Fla	30.21	767.3	57	13.9	94	nnw.	4	1.8			0			0	0			clear.
Naval Hospital, Portsmouth, N. H	29.96	761.0	36	2.2	61	sw.	17	7.6			10		sw.	0	0			cloudy.
Naval Hospital, Yokohama, Japan	30.22	767.6	49.5	9.7	64	calm			0		5		w.	0	0			hazy.
Adams, S. 3° 26′, W. 81° 26′	29.97	761.2	75	23.9	86	sw.			2		2					long	sw.	fair.
Alaska, Mollendo, Peru	30.04	763.0	65	18.3	78	e.			1		2			0	0	long		clear.
Alert, N. 24° 58′, E. 119° 39′*	29.88	758.9	67	19.4	95	e.			3		2		calm	0	0	sm'h		clear.
Alliance, Aspinwall, Panama	30.00	762.0	79	26.1	82	n.			3		5			0	0	sm'h		fair.
Ashuelot, Nagasaki, Japan	30.29	769.4	56	13.3	81	w.			1		8		calm					cloudy.
Brooklyn, Montevideo, Uruguay	29.92	760.0	68	20.0	84	n.					5		n.	0	0	light	w.	fair.
Colorado, New York, N. Y.	30.01	762.2	41	5.0	82	ssw.	3	1.3			10		sw.	0	0			cloudy.
Enterprise, N. 14° 28′, W. 68° 27′*	30.12	765.0	77	25.0	86	e.	10	4.5			2							clear.
Essex, N. 5° 52′, W. 9° 59′	29.92	760.0	79	26.1	82	ne.			4		2					mod.		cloudy.
Franklin, Norfolk, Va	30.14	765.5	46	7.8	84	sw.			1		8		ne.			sm'h	nw.	clear.
Galena, Palermo, Sicily	29.75	755.6	63	17.2	83	ne.	7	3.1			0			0	0			fair.
Independence, Mare Island, Cal	29.97	761.2	53	11.7	93	calm			1		5		ene.			mod.		clear.
Kearsage, N. 17° 25′, W. 74° 04′	30.11	764.8	79	26.1	70	ene.			0		0			0	0			fair.
Lackawanna, Callao, Peru†	30.17	766.3	66	18.9	94	calm			2		2		e.			long	e.	cloudy.
Lancaster, Messina, Sicily*	29.68	753.9	65	18.3	73	nne.			0		2							fair.
Marion, S. 33° 54′, E. 18° 24′*	29.91	759.7	64	17.8	100	w.			2		8		ne.			sm'h		fair.
Michigan, Erie, Pa	29.99	761.7	35	1.7	100	nw.			2		5		w.	light	light	sm'h		cloudy.
Minnesota, Newport, R. I	30.04	763.0	42	5.6	74	ssw.	10	4.5			8		n.					fair.
Monocacy, Kobe Japan	30.41	772.4	52	11.1	54	ene.			1		8		sw.					fair.
New Hampshire, Newport, R. I	30.00	762.0	41	5.0	82	ssw.			4		2		calm					cloudy.
Nipsic, Barcelona Spain	29.90	759.4	58	14.4	70	sw.			2		10		sw.			sm'h		clear.
Onward, Callao, Peru†	30.14	765.5	64	17.8	100	calm			0		0					sm'h		cloudy.
Palos, Kobe, Japan	30.39	771.9	50	10.0	52	n.			1		10		n			long	v.	clear.
Passaic, Washington, D. C	30.07	763.8	48	8.9	100	s.			3		2							fair.
Pensacola, Callao, Peru	30.07	763.8	67	19.4	84	calm					8		calm					clear.
Portsmouth, Norfolk, Va.	30.11	764.8	44	6.7	100	ssw.	0	0			2			0	0	sm'h		clear.
Powhatan, N. 11° 12′, W. 63° 58′	30.06	763.5	78	25.6	78	nne.			2		0					sm'h		clear.
Quinnebaug, Naples, Italy	29.72	754.9	63	17.2	57	ne.			2		2		nne.			long	nne.	fair.
Ranger, Acapulco, Mexico*	30.01	762.2	78	25.6	82	calm			4		2		ne			sm'h		fair.
Richmond, Kobe, Japan*	30.30	769.6	55	12.8	87	e.			0		0					sm'h		clear.
Shenandoah, Curacoa, W. I*	30.11	764.8	77	25.0	86	ne.			1		0			0	0			clear.
St. Louis, League Island, Pa	30.27	768.8	44	6.7	92	sse.	10	4.5	2		8		ne.			sm'h		cloudy.
Swatara, Kobe, Japan*	30.21	767.3	54	12.2	?	nne.			1		8		s.	0	0			cloudy.
Tennessee, N. 27° 31′, W. 87° 07′	30.19	766.8	73	22.8	100	ene.	4	1.8			2		calm			sm'h		fair.
Vandalia, Key West, Florida†	30.38	771.6	61	16.1	94	e.			1		10			0	0			cloudy.
Wabash, Boston, Mass	30.01	762.2	41	5.0	74	s.	8	3.6			0							clear.
Wachusetts, Sitka, Alaska	29.69	754.1	23	— 5.0		calm			0		8		s.	0	0	sm'h		clear.
Wyoming, Port Royal, S. C	30.21	767.3	57	13.9	100	nnw.	2	0.9			0							clear.
Yantic, N. 23° 15′, W. 91° 00′*	30.09	764.3	75	23.9	100	ese.			3		5		e.	0	0	sm'h		fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.			Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
ALLAN LINE.																	
S.S. Nova Scotian, N. 44° 29′ W. 44° 18′	30.16	766.1	49	9.4	.....	e.	.....	.....	5	.....	10	.....	ssw.	.....	.....	con.	e.	raining.
S. S. Peruvian, Portland, Maine*	29.72	754.9	47	8.3	.....	w.	.....	.....	2	.....	9	.....	sw.	0	0	.....	.....	cloudy.
S. S. Prussian, Moville, Ireland*	29.71	754.6	48	8.9	.....	nw.	.....	.....	4	.....	7	.....	nw.	0	0	.....	.....	cloudy.
S. S. Scandinavian, N. 44° 10′, W. 62° 41′*	30.05	763.3	32	0.0	.....	s.	.....	.....	3	.....	8	.....	s.	0	0	light	s.	d. clouds.
S. S. Waldensian, N. 49° 16′ W. 29° 29′ *	30.23	767.8	49	9.4	.....	w.	.....	.....	5	.....	10	.....	w.	0	0	con.	w.	overcast.
AMERICAN STEAMSHIP COMPANY.																		
S. S. British Crown, Off Mine Head, Ireland†	29.86	758.4	47	8.3	.....	wsw.	.....	.....	2	.....	0	.....	.....	0	0	sm'h	wsw.	clear.
S. S. Illinois, N. 41° 25′, W. 46° 38′	30.14	765.5	64	17.8	94	ssw.	.....	.....	6	.....	10	.....	s.	.....	.....	mod.	s.	overcast.
S. S. Indiana, Liverpool, Eng†	29.72	754.9	56	13.3	75	w.	.....	.....	1	.....	8	.....	w.	light	light	.....	.....	cloudy.
S. S. Ohio, Philadelphia, Penn	.....	.....	41	5.0	100	sw.	.....	.....	2	.....	8	.....	s.	.....	.....	.....	.....	cloudy.
S. S. Pennsylvania, N. 39° 57′. W. 49° 32′†	30.04	763.0	63	17.2	89	sw.	.....	.....	6	.....	10	.....	nne.	.....	.....	h'vy	.....	d. clouds.
ANCHOR LINE.																		
S. S. Assyria, N. 41° 20′, W. 44° 47′*†	30.36	771.1	62	16.7	.....	sw.	.....	.....	6	.....	10	.....	wsw.	0	0	h'vy	sw.	cloudy.
S. S. Devonia, N. 53° 00′ W. 23° 25′†	29.86	758.4	50	10.0	.....	ssw.	.....	.....	3	.....	10	.....	ssw.	.....	.....	mod.	sw.	cloudy.
S. S. Galatia, N. 46° 54′ W. 37° 21′†	30.36	771.1	.....	.....	.....	ne.	.....	.....	3	.....	5?	.....	w.	6 h'r	6 h'r	mod.	nw.	cloudy ?
ATLAS LINE.																		
S. S. Atlas, N. 10° 22′, W. 79° 15′†.	30.08	764.0	78	25.6	77	ne.	.....	.....	2–3	.....	2	.....	nne.	0	0	mod.	nne.	fine.
S. S. Arden, N. 12° 40′, W. 70° 15′	.....	.....	.....	.....	.....	ene.	.....	.....	1	.....	2	.....	ene.	.....	.....	sm'h	ene.	fine.
S. S. Athos, St. John's, Porto Rico, W. I	29.73	755.1	.....	.....	.....	ene.	.....	.....	.....	.....	0	.....	.....	0	0	.....	.....	clear.
BOSTON AND HALIFAX.																		
S. S. Carroll, N. 42° 29′, W. 70° 30′†	29.81	757.2	28	—2.2	.....	nnw.	.....	.....	.....	.....	.....	.....	.....	.....	.....	short	nnw.	fair.
BRITISH METEOROLOGICAL OFFICE.																		
S. S. Auckland, N. 45° 48′, W. 18° 59′	30.32	770.1	51	10.6	.....	nw.	.....	.....	5	.....	10	.....	.....	.....	.....	.....	.....	overcast.
Baroda, S. 9° 56′, E. 82° 17′	29.82	757.4	78.6	25.9	91	var.	.....	.....	1	.....	9	.....	.....	.....	.....	.....	.....	raining.
British Merchant, N 6° 30′ E 89° 25′	29.83	757.7	84	28.9	85	ese.	.....	.....	3	.....	4	.....	.....	.....	.....	.....	.....	d. clouds.
Bk Caldew, N. 37° 45′, W. 36° 54′	30.37	771.4	57	13.9	.....	ne.	.....	.....	6	.....	10	.....	.....	.....	.....	.....	.....	overcast.
S. S. Cipero, N 42° 03′ W. 17° 31′	30.27	768.8	55	12.8	62	nnw.	.....	.....	2	.....	10	.....	.....	.....	.....	3	nw.	overcast.
Bk. Commewyne, N. 38° 59′, W. 43° 34′	30.37	771.4	61.5	16.4	68	sw.	.....	.....	3	.....	10	.....	.....	.....	.....	.....	.....	d. clouds.
Corona, S. 1° 15′, W. 28° 10′	29.97	761.2	87.1	30.6	72	ese.	.....	.....	3	.....	3	.....	.....	.....	.....	.....	.....	d. clouds.
Bg. Hermine, S. 0° 11′, W. 27° 11′	29.98	761.5	79.5	26.4	86	w.	.....	.....	1	.....	5	.....	.....	.....	.....	.....	.....	d. clouds.
Hope, Aracnju, Brazil, S. A	30.01	762.2	80	26.7	84	ene.	.....	.....	2	.....	9	.....	.....	.....	.....	.....	.....	showery.
S. Lochee, Dundee, Scotland	29.50	749.3	44	6.7	80	nne.	.....	.....	5	.....	8	.....	.....	.....	.....	.....	.....	showery.
BRISTOL CITY LINE.																		
S. S. Brooklyn City, N. 47° 30′, W. 28° 50′*†	30.35	770.9	59	15.0	.....	wsw.	.....	.....	6	.....	9	.....	wnw.	0	0	h'vy	wsw.	cloudy.
CROMWELL LINE.																		
S. S. New Orleans, N. 25° 33′, W. 80° 00′*†	30.20	767.1	75	23.9	.....	s.	.....	.....	.....	.....	8	.....	sw.	.....	.....	sm'h	.....	cloudy.
CUNARD LINE.																		
S. S. Gallia, N. 40° 44′, W. 69° 07′	30.11	764.8	39	3.9	?	s.	.....	.....	4	.....	0	.....	.....	0	0	mod.	e.	hazy.
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. France, N. 40° 25′, W. 71° 59′ †	29.99	761.7	39.2	4.0	.....	se.	.....	.....	4	0	0	se.	.....	0	0	sm'h	ne.	clear.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Bohemia, N. 42° 42′, W. 42° 37′.*†	30.25	768.3	.....	.....	.....	sw.	.....	.....	5	.....	10	.....	wsw.	light	light	mod.	ssw.	misty.
S. S. Lessing, N. 46° 39′, W. 29° 29′*	30.24	768.1	54	12.2	.....	sw.	.....	.....	6	.....	10	.....	wsw.	1 h'r	1 h'r	mod.	w.	cloudy.
S. S. Silesia, Hamburg, Germany*†	29.67	753.6	56.8	13.8	.....	sw.	.....	.....	5	.....	8	.....	sw.	14 h'r	14 h'r	.....	.....	raining.
JOHNSTON LINE.																		
S. S. Thanemore, Chesapeake Bay	30.04	763.0	.....	.....	.....	sw.	.....	.....	3	.....	5?	.....	w.	0	0	.....	.....	clear.†
LEYLAND LINE.																		
S. S. Iberian, N. 50° 39′ W 20° 30′	.....	.....	.....	.....	.....	w.	.....	.....	3	.....	7	.....	wnw.	4 h'r	4 h'r	mod.	wnw.	
MALLORY LINE.																		
S. S. Colorado, New York, N. Y†	29.98	761.5	75	23.9	.....	ssw.	.....	.....	3	.....	10	.....	s.	0	0	.....	.....	overcast.
MERCHANTS' EXPRESS LINE.																		
S. S. Freja, Havre Roads, France†	29.72	754.9	50	10.0	100	sw.	.....	.....	3	.....	5	.....	sw.	6 h'r	6 h'r	sm'h	.....	squally.
S. S. Hermod, N. 49° 44′, W. 1° 00′.†*	29.48	748.8	51.8	11.0	.....	w.	.....	.....	3	.....	10	.....	w.	2 h'r	2 h'r	sm'h	.....	showery.
NATIONAL LINE.																		
S S. England, N. 43° 35′, W. 42° 00′*†.	30.25	768.3	.....	.....	.....	s.	.....	.....	1	.....	10	.....	sw.	24 h'r	24 h'r	light	w.	raining.
S. S. Erin, N. 42° 20′, W. 44° 23′	30.18	766.6	60	15.6	.....	sw.	.....	.....	6	.....	10	.....	sw.	10 h'r	10 h'r	r'gh	sw.	hazy.
S. S. Italy, N. 53° 25′ W. 4° 37′	30.00	762.0	.....	.....	.....	s.	.....	.....	5	.....	5	.....	ssw.	o	o	sl't	ssw.	cloudy.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Santiago, N. 33° 53′, W. 73° 58′†	30.12	765.0	69	20.6	.....	ne.	.....	.....	4	.....	0	.....	.....	o	o	small	ne.	fine.
NEW YORK HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, Progreso Roads, G. A.*†	30.20	767.1	75	23.9	.....	ese.	.....	.....	4	.....	4	.....	ese.	o	o	light	ene.	hazy.
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Alvena, Kingston, Jamaica, W. I.*†	29.97	761.2	73	22.8	.....	calm	.....	.....	0	.....	.....	.....	.....	.....	.....	.....	.....	clear.
S. S. Atlas, N. 10° 58′, W. 83° 44′*†	30.17	766.3	80	26.7	.....	calm	.....	.....	0	.....	.....	.....	.....	.....	.....	.....	.....	hazy.
S. S. Lepanto, N. 49° 30′, W. 16° 14′*	30.12	765.0	44	6.7	.....	ssw.	.....	.....	6	.....	.....	.....	.....	.....	.....	.....	wnw.	squally.
S. S. Olbers, S. 22° 19′ W. 40° 00*†	30.18	766.6	78	25.6	.....	se.	.....	.....	4–5	.....	.....	.....	.....	.....	.....	.....	sse.	clear.
NORTH GERMAN LLOYD.																		
S. S. Hermann, N. 50° 32′, E. 3° 00′*†	29.65	753.1	46.4	8.0	.....	wsw.	.....	.....	5	.....	2	.....	wsw.	o	o	mod.	wsw.	clear.
S. S. Hohenzollern, S. 25° 04′, W. 42° 12′*	30.16	766.1	79.2	26.2	.....	ene.	.....	.....	3	.....	1	.....	ene.	o	o	3	ene.	clear.
S. S. Koln, N. 43° 01′, W. 43° 02′*	30.21	767.3	63.0	17.2	94	sw.	.....	.....	6	.....	10	.....	.....	6 h'r	6 h'r	r'gh	sw.	drizzling.
S. S. Kronprinz F. Wilhelm, N. 42° 00′, W. 50° 30′.*	29.90	759.4	48.2	9.0	.....	e.	.....	.....	1	.....	10	.....	.....	24 h'r	24 h'r	4	e.	d. fog.
S. S. Leipzig, N. 40° 11′, W. 64° 52′	30.14	765.5	67.0?	19.4?	69	wsw.	.....	.....	3	.....	0	.....	.....	3 h'r	3 h'r	sm'h	.....	clear.
S. S. Main, N. 49° 56′, W. 14° 18′*	29.90	759.4	46.4	8.0	.....	nw.	.....	.....	6	.....	5	.....	nw.	.....	.....	high	nw.	showery.
S. S. Mosel, N. 45° 34′, W. 41° 18′	30.29	769.4	51.1	10.6	.....	ne.	.....	.....	5	.....	8	.....	ne.	6 h'r	6 h'r	long	w.	cloudy.
S. S. Neckar, N. 41° 09′ W. 53° 55′	29.58?	751.3?	60.8	16.0	.....	nne.	.....	.....	5	.....	10	.....	nne.	rain	rain	r'gh	wsw.	misty.
S. S. Nurnburg N. 32° 50′, W. 14° 34′*	30.18	766.6	64.4	18.0	65	nne.	.....	.....	4	.....	9	.....	nne.	o	o	.....	nne.	cloudy.
S. S. Oder, Bremerhaven, Germany	29.63	752.6	63.5	17.5	.....	wsw.	.....	.....	4	.....	7	.....	w.	rain	rain	.....	.....	rainy.
S. S. Ohio, N. 38° 10′, W. 28° 36′	30.43	772.9	.....	.....	.....	sse.	.....	.....	3	.....	2	.....	w.	o	o	sm'h	nw.	clear.
S. S. Salier, N. 48° 45′, W. 20° 31′	30.13	765.3	50.0	10.0	.....	w.	.....	.....	4	.....	10	.....	wnw.	o	o	mod.	w.	cloudy.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Belgic, N. 44° 07′, W. 17° 45′†	30.08	764.0	47	8.3	77	wnw.	.....	.....	5	.....	5	.....	ne.	o	o	mod.	nw.	fair.
S. S. Gaelic, N. 24° 26′, E. 118° 46′†	29.98	761.5	65	18.3	89	e.	.....	.....	1	.....	0	.....	.....	.....	.....	sm'h	.....	clear.
S. S. Oceanic, N. 35° 22′, E. 179° 46′ *.	30.06	763.5	61	16.1	94	ssw.	.....	.....	4	.....	9	.....	sw.	.....	.....	3	ne.	misty.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, New York, N. Y†	30.03	762.7	.....	.....	.....	sw.	.....	.....	2	.....	8	.....	sw.	o	o	.....	.....	hazy.
S. S. Seminole, Savannah, Ga.†	30.22	767.6	66	18.9	79	nw.	.....	.....	1	.....	1	.....	n.	o	o	.....	.....	clear.
OREGON IMPROVEMENT COMPANY.																		
S. S. Willamette, N. 43° 12′, W. 124° 38′ *†	30.29	769.4	48	8.9	85	n.	.....	.....	3	.....	0	.....	.....	o	o	sm'h	.....	blue sky.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Oregon, San Francisco, Cal.†	30.21	767.3	54	12.2	93	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	fine.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, N. 34° 27′, W. 120° 18′†	30.16	766.1	54	12.2	93	sw.	.....	.....	1	.....	10	.....	sw.	.....	.....	sm'h	w.	foggy.
S. S. G. W. Elder, Esquamault, Vancouver's I'd, B.C.†	30.18	766.6	48	8.9	.....	se.	.....	.....	2	.....	0	.....	se.	light	light	.....	.....	cloudy.
S. S. Idaho, San Francisco, Cal.†	30.13	765.3	55	12.8	80	sw.	.....	.....	1	.....	0	.....	.....	.....	.....	.....	.....	clear.
S. S. State of California, Astoria, Oregon†	30.28	769.1	46	7.8	?	calm	.....	.....	0	.....	10	.....	.....	.....	.....	.....	.....	raining.
S. S. Victoria, N. 49° 13′ W. 122° 54′†	30.18	766.5	39	3.9	100	calm	.....	.....	0	.....	10	.....	.....	.....	.....	sm'h	.....	raining.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, Sydney, N. S. W	29.98	761.5	72	22.2	76	calm	.....	.....	0	.....	5?	.....	ne.	o	o	.....	.....	cloudy.†
S. S. City of New York, S. 21° 30′, W. 173° 30′†	29.77	756.1	77	25.0	82	s.	.....	.....	3	.....	9	.....	.....	h'vy	h'vy	sm'h	ne.	cloudy.
S. S. City of Pekin, Panama, Panama†	30.06	763.5	78	25.6	82	nnw.	.....	.....	2	.....	0	.....	.....	o	o	sm'h	.....	clear.
S. S. City of Rio de Janeiro, N. 34° 06′, W. 120° 45′†.	30.32	770.1	53	11.7	67	var.	.....	.....	1	.....	0	.....	.....	o	o	long	.....	hazy.
S. S. City of Sydney, S. 27° 07′, W. 177° 21′†	29.91	759.7	70	21.1	85	s.	.....	.....	5	.....	2	.....	W.	o	o	.....	.....	drizzling.
S. S. Clyde, N. 15° 48′, W. 95° 15′†	29.99	761.7	81	27.2	83	n.	.....	.....	3	.....	8	.....	nne.	o	o	mod	ne.	clear.
S. S. South Carolina, San Jose, Guatamala.†	30.13	765.3	82	27.8	63	n.	.....	.....	1	.....	5	.....	ne.	.....	o	light	sw.	clear.
																sm'h	.....	cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
Quebec S. S. Company.																		
S. S. Muriel, N. 32° 30′, W. 68° 19′	.....	.....	.....	.....	.....	sw.	.....	.....	2	.....	0	.....	.....	0	0	mod.	w.	fair.
Red Star Line.																		
S. S. Rhynland, N. 43° 13′, W. 41° 35′	30.31	769.9	57	13.9	87	sw.	.....	.....	3	.....	10	.....	sw.	0.3	8.	mod.	w.	rainy.
S. S. Switzerland, N. 40° 00′. W. 50° 50′†	30.04	763.0	.....	.....	.....	s.	.....	.....	6	.....	10	.....	ssw.	4 h'r	4 h'r	h'vy	s.	rainy.
S. S. Waesland, N. 47° 34′ W. 24° 01′	30.23	767.8	52	11.1	.....	w.	.....	.....	4	.....	5	.....	wnw.	1 h'r	1 h'r	mod.	nw.	cloudy.
Rotterdam Line.																		
S. S. Schiedam, N. 49° 55′, W. 13° 00′*	29.83	757.7	54.7	12.6	98	wnw.	.....	.....	6	.....	5	.....	w.	4 h'r	4 h'r	h'vy	nw.	cloudy.
S. S. W. A. Scholten, N. 44° 32′, W. 42° 20′*	30.15	765 8	55.4	13.0	93	e.	.....	.....	4	.....	10	.....	.....	4 h'r	4 h'r	mod.	sw.	
Thingvalla Line.																		
S. S. Thingvalla, Copenhagen, Denmark†	29.63	752.6	49.1	9.5	.....	wsw.	.....	.....	1	.....	6	.....	wsw.	8 h'r	8 h'r	.....	.....	covered.
Warren Line.																		
S. S. Iowa, N. 47° 26′, W. 29° 48′.*†	30.30	769.6	48	8.9	.....	nw.	.....	.....	6	.....	10	.....	nw.	2 h'r	2 h'r	r'gh	wsw.	hazy.
White Star Line.																		
S. S. Adriatic, N. 40° 55′ W. 61° 00′*†	30.14	765.5	44	6.7	.....	nw.	.....	.....	4	.....	2	.....	ne.	rain	rain	cross	w.	d. clouds.
S. S. Celtic, N. 45° 46′, W. 38° 40′†	30.30	769.6	48	8.9	85	ne.	.....	.....	4	.....	8	.....	ne.	12 h'r	12 h'r	light	n.	fair.
Wilson Line.																		
S. S. Otranto, N. 43° 02′, W. 44° 09′†	30.28	768.1	54	12.2	.....	e.	.....	.....	4	.....	10	.....	ese.	24 h'r	24 h'r	mod.	w.	heavy rain.
S. S. Romano, Hull, Eng*†	29.54	750.3	54	12.2	.....	w.	.....	.....	3	.....	10	.....	.....	0	0	.....	.....	overcast.
S. S. Salerno, N. 49° 04′, W. 9° 38′†	29.77	756.1	48	8.9	.....	nnw.	.....	.....	4	.....	4	.....	nnw.	.....	.....	long	w.	showery.
Winsor Line.																		
S. S, Catherine Whiting, Off Barnegat, N. J.†	30.11	764.8	.....	.....	.....	sse.	.....	.....	3	.....	.....	.....	.....	.....	.....	.....	sse.	
Miscellaneous.																		
Schr. Addie Fuller, Cedar Keys, Florida†	30.32	770.1	61	16.1	100	ne.	.....	.....	3	0	8 ks	.....	e.	0	0	.....	.....	cloudy.
Bk. Adelaide, Rio de Janeiro, Brazil*†	30.15	765.8	81	27.2	.....	calm.	.....	.....	0	.....	.....	.....	.....	0	0	.....	.....	clear.
Bk. Aureola, N. 36° 09′ W. 49° 57′*†	30.54	775.7	69	20.6	.....	ssw.	.....	.....	6	.....	9	.....	w.	0	0	h'vy	wnw.	cloudy.
Schr Annie M. Smull, S. 37° 11′. W. 11° 40′*†	30.10	764.5	64	17.8	.....	w.	.....	.....	.....	.....	.....	.....	w.	0	0	.....	nw.	clear.
Bk. Bergenseren, N. 36° 05′, W. 24° 40′†	30.39	771.9	.....	.....	.....	calm	.....	.....	0	.....	.....	.....	e.	0	0	.....	e.	fair.
Bk. Celestina, S. 2° 55′ W. 29° 08′*†	29.90	759.4	.....	.....	.....	se.	.....	.....	2	.....	10	.....	.....	light	light	long	nne.	fair.
S. S. Compton, Cardenas, Cuba, W. I†	30.25	768.3	.....	.....	.....	e.	.....	.....	3	.....	5	.....	e.	0	0	.....	.....	clearing.
Bk. E. L. Pettingill, S. 3° 07′ W. 112° 09′†	30.10	764.5	.....	.....	.....	e.	.....	.....	3	.....	5	.....	ene.	2 h'r	2 h'r	sm'h	.....	
S Enoch Train, Off Isle of Wight*	29.62	752.3	.....	.....	.....	wsw.	.....	.....	2	.....	4	.....	nw.	shr's	shr's	.....	.....	fine.
S. Exporter, N. 37° 30′, W. 50° 00′*†	30.40	772.1	.....	.....	.....	ssw.	.....	.....	7	.....	.....	.....	sw.	0	0	hv'y	sw.	cloudy.
S. Festina Lente, N. 58° 38′, W. 13° 50′*	29.82	757.4	43	6.1	.....	ne.	.....	.....	4	.....	9	.....	ne.	0	0	long	w.	cloudy.
U.S. F. C. S. Fish Hawk, Washington, D. C.†	30.14	765.5	48	8.9	92	ssw.	.....	.....	3	.....	5	.....	ssw.	0	0	.....	.....	fair.
Bk. Freya, Baltimore, Md.	.....	.....	46	7.8	.....	calm	.....	.....	0	.....	5	.....	n.	0	0	.....	.....	hazy.
S. Grecian, S. 17° 44′, W. 33° 06′*†	30.08	764.0	80	26.7	.....	e.	.....	.....	3	.....	3	.....	e.	1 h'r	1 h'r	mod.	s.	fine.
Bk. Geo. Booth, Cape Good Hope, Africa*†	29.80	756.9	.....	.....	.....	w.	.....	.....	.....	.....	.....	.....	.....	0	0	.....	.....	clear.
Bk. Granville, S. 35° 12′, W. 8° 47′*†	30.15	765.8	.....	.....	.....	ssw.	.....	.....	1	.....	.....	.....	ssw.	rain	rain	mod.	nw.	clear.*
S. Hedwig, N. 58° 57′, W. 11° 17′	29.80	757.0	43.9	6.6	78	ne.	.....	.....	6	.....	5	.....	ne.	4 h'r	4 h'r	5	ne.	fine.
Schr. Henry Denison, N. 18° 13′ W. 76° 25′†	30.12	765.0	.....	.....	.....	ne.	.....	.....	2	.....	3	.....	ne.	0	0	mod	ne.	fair.
Bk. Johanne Auguste, S 1° 58′, E. 90° 35′*	29.70	754.4	.....	.....	.....	ne	.....	.....	1	.....	3	.....	ene.	3 h'r	3 h'r	sm'h	.....	fair.
Bg John Wesley, N. 22° 56′, W. 80° 00′†	30.05	763.3	77	25.0	.....	sw.	.....	.....	1	.....	9	.....	.....	0	0	.....	.....	cloudy.
Bkt. Josephine, Aspinwall, Panama*†	30.14	765.5	81	27.2	76	n.	.....	.....	5	.....	2	.....	.....	0	0	.....	.....	fair.
Bk. Liberia, N. 35° 24′, W. 49° 24′*	30.25	768.3	.....	.....	.....	ssw.	.....	.....	5	.....	8	.....	.....	0	0	high	nw.	fine.
Schr. Maggie Abbott, N. 41° —′. W. 74° —′*†	30.10	764.5	.....	.....	.....	sse.	.....	.....	4	.....	.....	.....	s.	0	0	.....	.....	cloudy.
Bg. Medina, N. 36° 42′ W. 73° 45′†	30.17	766.3	.....	.....	.....	calm	.....	.....	0	.....	.....	.....	.....	.....	.....	short	sse.	rainy.
S. S. Nebo, N. 5° 40′, W. 40° 42′*†	29.84	757.9	.....	.....	.....	ne.	.....	.....	3	.....	8	.....	nne.	0	0	mod.	ne.	cloudy.
Bk. Peppina, N. 36° 48′, W. 8° 25′†	30.01	762.2	60	15.6	76	n.	.....	.....	1	.....	0	.....	.....	.....	.....	sm'h	.....	clear.
Bk. Pilgrim, S. 44° 30′, E. 134° 45′*†	29.50	749.3	.....	.....	.....	wnw.	.....	.....	6	.....	.....	.....	wnw.	rain	rain	high	var.	
Bg. Potomac, N 23° 03′, W. 61° 32′*†	30.20	767.1	.....	.....	.....	ene.	.....	.....	3	.....	.....	.....	ene.	.....	.....	rg'h	ese.	fine.
Bkt. Spotless, N. 23° 44′, W. 38° 03′*†	30.10	764.5	.....	.....	.....	var.	.....	.....	.....	.....	.....	.....	se.	.....	.....	mod.	n.	clear.
Bk. Stella, S. 56° 21′, W. 64° 35′*	28.56	725.4	41.0	5.0	95	w.	.....	.....	4	.....	4	.....	.....	0	0	.....	.....	d. clouds.
Bg. Wauburn, S. 8° 00′, W. 34° 20′*†	30.10	764.5	.....	.....	.....	e.	.....	.....	5	.....	4	.....	e.	.....	.....	sha'h	.....	
S. Wm. Woodbury, N. 59° 37′, W. 2° 33′*†	29.45	748.0	44	6.7	84	nne.	.....	.....	7	.....	.....	.....	n.	.....	.....	hv'y	n.	squally.

Data, as appearing in the International Bulletin of similar date.
Isobars in *black* exhibit atmospheric pressure at sea-level, and are charted from data as reported by the several observers.
Isotherms in *red* exhibit temperature of air, similarly charted.
Broken or dotted lines indicate that the lines so broken are doubtful.
Arrows, when charted, fly with the wind and exhibit wind-direction and force.

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W. B. Hazen

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

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INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON MARCH 31, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours	.....	.....	29.92	759.9	69.4	20.8	89	sw.	.....	.....	2	.....	0	.....	.....	0	0	clear	Moiroud.
Algiers	.....	.....	29.87	758.8	59.0	15.0	70	w.	.....	.....	1	.....	0	.....	.....	0	0	clear	Nicolas.
La Calle	.....	.....	29.86	758.5	58.3	14.6	83	wnw.	.....	.....	2	.....	5	.....	.....	0.276	7.0	cloudy	Fonfréde.
Tunis	.....	.....	29.85	758.1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.01	762.2	64.0	17.8	34	nw.	.....	.....	1	.....	1	.....	.....	0	0	very fair	Dumas.
Tebessa	.....	.....	29.82	757.4	45.0	7.2	72	nw.	.....	.....	3	.....	4	.....	.....	0.512	13.0	cloudy	Derché.
Geriville	.....	.....	.....	.....	58.3	14.6	15	n.	.....	.....	1	.....	1	.....	.....	0	0	very fair	Louchamp.
Laghouat	.....	.....	30.03	762.7	60.8	16.0	50	w.	.....	.....	1	.....	0	.....	.....	0	0	clear	Herbin.
Biskra	.....	.....	30.03	762.8	68.7	20.4	33	nw.	.....	.....	1	.....	2	.....	.....	0.173	4.4	fair	Malau.
Australian.																			
Melbourne, Victoria	30.02	762.5	30.11	764.8	58.0	14.4	72	sw.	3	1.3	.....	.....	3	.....	.....	0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.21	741.9	29.74	755.5	62.1	16.7	46	se.	.....	.....	1	.....	0	.....	.....	0	0	.....	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.02	737.1	29.78	756.3	59.4	15.2	49	ese.	3.1	1.4	.....	.....	1	.....	.....	0	0	.....	Dr. Wierzbiski.
Eperies	28.91	734.4	29.78	756.3	59.4	15.2	53	s.	.....	.....	3	1 cs	0	.....	.....	0	0	.....	Julius Mikolik.
Gratz	28.50	723.9	29.73	755.1	58.6	14.8	54	sw.	.....	.....	2	.....	0	.....	.....	0	0	.....	Andreas Rospini.
Hermannstadt	28.43	722.0	29.81	757.2	65.8	18.8	38	se.	.....	.....	3	.....	0	.....	.....	0	0	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.38	720.9	29.71	754.5	54.7	12.6	61	calm	.....	.....	0	.....	0	.....	.....	0	0	clear	The Staff.
Lemberg	28.84	732.4	29.80	756.9	58.5	14.7	53	s.	.....	.....	1	.....	1	.....	.....	0	0	.....	Dr. T. Stanecki.
Pola	29.69	754.0	29.80	756.8	59.0	15.0	50	eso.	.....	.....	1	.....	1	.....	.....	0	0	.....	I. R. Hydrographic Office.
Szathmar	29.36	745.7	29.82	757.3	63.1	17.3	41	sw.	.....	.....	2	.....	0	.....	.....	0	0	.....	Joseph Midlinszky, S. J.
Szegedin	29.49	749.1	29.76	756.0	64.4	18.0	34	s.	.....	.....	1	.....	3	.....	.....	0	0	.....	Karl Stancel.
Trieste	29.71	754.6	29.81	757 2	56.5	13.6	56	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	Rieder.
Vienna	29.02	737.2	29.72	755.0	62.6	17.0	38	se.	.....	.....	3	.....	0	.....	.....	0	0	.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.47	748.5	29.57	751.1	42.0	5.6	79	n.	8	3.6	.....	.....	9	.....	.....	0.040	1.0	showery	W. Boswell.
Armagh, Observatory	29.31	744.5	29.56	750.8	43.7	6.5	75	ene.	11	4.9	.....	.....	10	.....	.....	.....	.....	overcast	S. Call.
Bidston, Liverpool Obs'y	.....	.....	29.52	749.8	46.8	8.2	67	w.	5	2.2	.....	.....	7	.....	.....	.....	.....	d. clouds	John Hartnup.
Bolton, Sharples	28.99	736.3	29.52	749.8	44.1	6.7	74	nne.	4	1.8	.....	.....	9	.....	.....	.....	.....	misty	Thomas Mackereth. [A.S.
Bradford, Yorkshire	29.12	739.6	29.51	749.5	45.8	7.7	81	sw.	.....	.....	2	.....	8	.....	.....	0.35	8.9	overcast	J. McLandsborough, F. R
Bridgetown, Barbadoes	29.96	761.0	29.99	761.7	81.0	27.2	66	ne.	.....	.....	3	.....	6	.....	.....	.....	.....	gloomy	Pvt. J. Surgenor, A. H.C.
Cardington	.....	.....	29.54	750.3	54.0	12.2	53	w.	.....	.....	0.4	.....	3	.....	.....	.....	.....	blue sky	John McLaren.
Chatham, School M. E.	29.47	748.5	29.60	751.8	49.5	9.7	67	calm	.....	.....	0	.....	7	.....	.....	blank	blank	d. clouds	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	29.37	746.0	29.60	751.8	50.6	10.3	67	ssw.	.....	.....	3	.....	8	.....	.....	.....	.....	overcast	The Staff.
Fort Napier, Natal	27.62	701.5	29.83	757.7	79.0	26.1	58	se.	.....	.....	1	.....	1	.....	.....	.....	.....	blue sky	Pvt. E. K. Annis, A. H.C.
Free Town, Sierra Leone	29.64	752.8	29.86	758.4	88.0	31.1	66	nw.	.....	.....	1	.....	3	.....	.....	.....	.....	blue sky	Sergt. John Robinson.
Galway, Queen's College	.....	.....	29.42	747.3	.....	.....	.....	e.	.....	.....	2	.....	10	.....	.....	.....	.....	overcast	J. O'Donaghue.
Gibraltar, Mediterranean	29.95	760.7	30.00	762.0	64.2	17.9	78	sw.	.....	.....	4	.....	4	.....	.....	.....	.....	blue sky	Opl. O. Baldwin.
Glasgow, Observatory	29.38	746.2	29.59	751.6	44.4	6.9	75	ene.	.....	.....	1	.....	10 k	.....	.....	.....	.....	d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.42	747.3	29.59	751.6	49.9	9.9	57	wsw.	.....	.....	1	.....	7	.....	.....	.....	.....	drizzling	The Staff.
Guernsey	29.38	746.2	29.68	753.9	50.0	10.0	78	w.	.....	.....	1	.....	1	.....	.....	blank	blank	blue sky	A. Collenette, F. M. S.
Kew, Observatory	29.56	750.8	29.59	751.6	51.5	10.8	45	sw.	10	4.5	.....	.....	7	.....	.....	.....	.....	d. clouds	The Staff.
Leicester, Museum	29.29	744.0	29.54	750.3	49.5	9.7	71	sw.	.....	.....	1	.....	4	.....	.....	.....	.....	d. clouds	J. C. Smith.
Malta, Mediterranean	29.67	753.6	29.74	755.4	61.4	16.3	66	nw.	.....	.....	2	.....	10	.....	.....	.....	.....	overcast	I. H. Whysall.
Nassau, Bahamas	30.13	765.3	30.17	766.3	78.0	25.6	69	s.	.....	.....	1	.....	10	.....	.....	.....	.....	overcast	C. S. Duncombe.
Oscott, St. Mary's College	29.02	737.1	29.55	750.6	47.7	8.7	62	sw.	.....	.....	1	.....	8	.....	.....	.....	.....	d. clouds	John Mac Email.
Oxford, Radcliffe Obs'y	29.34	745.2	29.57	751.1	50.0	10.0	54	wsw.	.....	.....	3	.....	9	.....	.....	.....	.....	d. clouds	The Staff.
Plymouth	29.52	749.8	29.60	751.8	51.1	10.6	72	sw.	.....	.....	4	.....	5	.....	.....	.....	.....	d. clouds	John Merrifield.
Sandwick Manse, Orkneys	.....	.....	29.65	753.1	42.2	5.7	83	ne.	21	9.4	.....	.....	7	.....	.....	.....	.....	d. clouds	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.82	757.4	29.89	759.2	50.6	10.3	75	ne.	.....	.....	2	.....	10	.....	.....	.....	.....	gloomy	W. H. Lyne.
Sheffield	29.26	743.2	29.54	750.3	49.2	9.6	64	nw.	.....	.....	1	.....	3	.....	.....	0.11	2 8	d clouds	W. F. Cooper.
Silloth Rectory	29.52	749.8	29.57	751.1	44.0	6.7	73	e.	.....	.....	1	.....	8	.....	.....	0.050	1.3	showery	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	29.54	750.3	47.0	8.3	54	se.	.....	.....	2	.....	6	.....	.....	blank	blank	d. clouds	R. S. J. Perry.
Stratfield Turgiss	29.43	747.5	29.65	753.1	52.6	11.4	59	sw.	.....	.....	3	.....	6	.....	.....	.....	.....	d. clouds	Rev. C. H. Griffiths, F.M.S.
Truro, Royal Institution	29.51	749.5	29.56	750.8	56	13.3	80	sw.	.....	.....	4	.....	10	.....	.....	.....	.....	raining	W. Newcombe.
Valencia, Observatory	29.42	747.3	29.44	747.8	46.7	8.2	76	sw.	9	4.0	.....	.....	9	.....	.....	blank	blank	d. clouds	The Met'g'l Office.
Canadian.																			
Bathurst, N. B	.....	.....	.....	.....	10.0	—12.2	.....	nw.	15	6.7	.....	4 cs	0	.....	.....	0	0	fair	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.75	755.6	29.80	756.9	16	— 8.9	68	w.	16	7.2	.....	0	2 s	.....	.....	0.050	1.3	fair	H. J. Cundall, C. E.
Chatham, N. B*	29.73	755.1	29.79	756.7	9	—12.8	87	sw.	16	7.2	.....	0	0	.....	.....	0.11	2.8	clear	G. A. Blair.
Cornwall, Ontario	30.23	767.8	30.44	773.2	8.0	—13.3	79	n.	.....	.....	4	0	0	.....	.....	0	0	clear	James Smith, M. A.
Dalhousie, N. B	29.56	750.8	29.74	755.4	3.0	—16.1	.....	w.	.....	.....	4	0	5 ks	.....	.....	0.05	1.3	fair	H. A. Johnson.
Father Point, Quebec*	29.92	760.0	29.94	760.5	3	—16.1	87	w.	45	20.1	.....	.....	10 n	.....	nw.	0.20	5.1	cloudy	J. McWilliams.
Fort Garry, Manitoba*	29.08	738.6	29.95	760.7	23	— 5.0	84	s.	16	7.2	.....	.....	10 n	.....	.....	0	0	cloudy	James Stewart.
Fredericton, N. B	29.93	760.2	30.00	762.0	10.1	—12.2	58	nw.	22	9.8	.....	0	0	.....	.....	0.220	5.6	fair	Prof. Harrison.
Granton, Ontario	29.35	745.5	30.54	775.7	19.4	— 7.0	94	n.	.....	.....	2	3 ok	0	nw	.....	0	0	fair	James Grant.
Halifax, N. S*	29.80	756.9	29.94	760.5	24	— 4.4	55	w.	13	5.8	.....	0	0	.....	.....	0.028	0.7	clear	A. Allison.
Hamilton, Ontario	30.14	765.5	30.57	776.5	20.2	— 6.6	80	sw.	.....	.....	2	3 k	0	sw.	.....	0	0	fair	Geo. Dickson, B. A.
Kingston, Ontario*	30.14	765.5	30.51	774 9	12	—11.1	66	nw	11	4.9	.....	0	2 k	.....	.....	0	0	fair	A. P. Knight, M. A.
Little Glace Bay, N. S	29.71	754.6	29.75	755.6	26.3	— 3.2	96	nw.	.....	.....	3	3 k	0	nw.	.....	0	0	fair	C. H. Rigby.
Montreal, Quebec*	30.19	766.8	30.42	772.7	6	—14.4	54	w.	24	10.7	.....	0	0	.....	.....	inap.	inap.	clear	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.82	757.4	30.60	777.2	6	—14.4	52	n.	7	3.1	.....	0	0	.....	.....	0	0	clear	Rev. R. Mosley.
Peterboro, Ontario	29.73	755.1	30.56	776.2	14.7	— 9.6	82	n.	.....	.....	1	0	0	.....	.....	0	0	clear	J. Dixon, B. A.
Port Dover, Ontario	29.81	757.2	30.57	776.5	20	— 6.7	85	nw.	8	3.6	.....	2 k	0	nw.	.....	0.04	1.0	fair	H. Morgan.
Port Stanley, Ontario	29.83	757.7	30.53	775.4	21	— 6.1	84	w.	8	3.6	.....	0	2 k	.....	nw.	0.02	0.5	clear	M. Payne.
Quebec, Quebec*	29.92	760.0	30.28	769.1	— 2	—18.9	65	nw.	.....	.....	5	0	0	.....	.....	0.13	3.3	clear	Capt. Ashe, R. N.
Rockliffe, Ontario*	30.03	762.7	30.55	776.0	0	—17.8	75	w.	2	0.9	.....	0	0	.....	.....	0	0	clear	W. H. McIntyre.
Saugeen, Ontario*	29.77	756.1	30.55	776.0	16	— 8.9	91	ne.	6	2.7	.....	.....	10 ks	.....	n.	inap.	inap.	cloudy	
St. Andrews, N. B	29.98	761.5	30.03	762.7	14	—10.0	82	nw.	24	10.7	.....	0	0	.....	.....	0.10	2.5	clear	
St. John, N. B	29.83	757.7	30.01	762.2	14.0	—10.0	81	nw.	20	8.9	.....	0	3 k	.....	.....	0.210	5.3	fair	G. Murdock, C. E.
St. Pierre, N. F	.....	.....	29.69	754.1	28.4	— 2.0	.....	sw.	.....	.....	3	.....	.....	.....	.....	0	0	.....	N. F. Land, Com't.
Stratford, Ontario	29.16	740.7	30.56	776.2	16.0	— 8.9	83	n.	3	1.3	.....	1 cs	1 s	nw.	.....	0	0	clear	C. I. Macgregor, M. A.
Sydney, C. B*	29.69	754.1	29.75	755.6	26	— 3.3	64	w.	24	10.7	.....	0	5 k	.....	w.	0.02	0.5	fair	T. C. Hill, C. E.
Toronto, Ontario*	30.16	766.1	30.58	776.7	16	— 8.9	56	n.	12	5.4	.....	2 cs	0	nw.	.....	inap.	inap.	clear	Magnetic Observatory.
Windsor, N. S	29.80	756.9	29.90	759.4	20.0	— 6.7	85	w.	22	9.8	.....	0	1 k	.....	.....	0	0	clear	Prof. W. R. Butler.
Woodstock, Ontario	29.39	746.5	30.55	776.0	18.9	— 7.3	74	nw.	8	3.6	.....	0	7 ks	.....	.....	0	0	cloudy	Prof. Wolverton
Yarmouth, N. S*	29.97	761.2	30.04	763.0	24	— 4.4	80	nw.	35	15.6	.....	5 k	0	nw.	.....	0.06	1.5	fair	Lt. F. E. Wilmot, R. N.
Sub-series.																			
St. Johns, Newfoundland	29.66	753.4	29.94	760 5	33	0.6	100	s.	4	1.8	.....	0	0	.....	.....	0	0	.....	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	29.96	761.0	29.99	761.7	72.0	22.2	74	sw.	8.2	3.7	.....	0	7 s	.....	.....	0	0	.....	John Duthie.
Cape Town, C. G. H. Obs'y	29.96	761.0	30.00	762.0	71.2	21.8	73	nnw.	18	8.0	.....	0	0	.....	.....	0	0	.....	The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
CHINESE (*Sub-series*).																			
Hankow	29.92	760.0	30.20	767.1	59.3	15.2	88	ene.	.....	.....	3	.....	10	.....	.....	0.50	12.7	.....	N. Titoushkin.
Zi-Ka-Wei, near Shanghai	30.05	763.3	30.08	763.9	55.0	12.8	86	nw.	2.9	1.3	.....	.....	10 k	....	wnw.	0.252	6.4	covered.....	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen...	29.74	755.4	29.79	756.6	47.1	8.4	77	se.	9	4	.....	.....	10	.....	.....	.....	.....	.....	Oversergent Fischer.
Fanöe	29.61	752.1	29.63	752.6	45.5	7.5	91	e.	.....	.....	4	.....	1c	.....	.....	.....	.....	raining.....	Overloerer Lauridsen.
Godthaab, Greenland	29.51	749.5	29.55	750.6	25.2	— 3.8	.....	s.	.....	.....	4	.....	10	.....	.....	.....	.....	snowing ...	S. Kleinschmidt.
Stykkisholm, Iceland	29.72	754.9	29.76	756.0	37.4	3.0	96	s.	.....	.....	6	.....	10	.....	.....	.....	.....	raining	A. O. Thorlacius.
Thorshavn	29.90	759.4	29.93	760.3	41.0	5.0	64	ene.	16	7	.....	.....	7	.....	.....	.....	.....	.....	Overloerer Bergh.
Vestervig	29.58	751.2	29.67	753.5	48.7	9.3	71	ene.	.....	.....	2	.....	8	.....	.....	.....	.....	.....	Loearer Oesterbol.
FRENCH.																			
Agen, Normal School	29.23	742.5	29.89	759.1	50.0	10	76	n.	.....	.....	1	.....	kn	.....	nw.	0	0	.....	M. Labroue, Director.
Alençon, Normal School	29.12	739.7	29.67	753.7	48.9	9.4	69	ssw.	.....	.....	2	.....	n	.....	ne.	0.346	8.8	.....	M. Nicot, Director.
Arras, Engineer School	29.35	745.6	29.61	752.2	46.8	8.2	78	nw.	.....	.....	4	0	5 n	.....	.....	0.106	2.7	cloudy	M. Klein, Commandant.
Avignon, Normal School	29.74	755.5	29.82	757.5	62.6	17	43	ne.	....	.....	1	.....	0	.....	.....	0	0	clear.....	M. Giraud, Director.
Bar-sur-Seine	29.20	741.6	29.75	755.7	48.4	9.1	76	wsw.	.....	.....	2	.....	5	.....	w.	0.059	1.5	cloudy.....	M. Saillard, Director.
Beauvais, Normal School	29.42	747.2	29.69	754.0	53.8	12.1	56	sw.	.....	.....	2	.....	8	.....	w.	0.150	3.8	very cloudy	M. Frère Eugène Mari.
Besançon, Normal School	28.85	732.9	29.74	755.3	55.4	13	77	s.	.....	.....	1	c	0	n.	.....	0	0	....	M. Gobin, Director.
Bordeaux, Observatory	29.59	751.5	29.85	758.1	54.7	12.6	61	sw.	.....	.....	1	.....	10	.....	.....	0.173	4.4	covered.....	M. Rayet, Director.
Bourges, Normal School	29.22	742.1	29.77	756.2	50.0	10	74	sw.	.....	.....	2	.....	kn	....	sw.	0.083	2.1	....	M. Postel, Director.
Brest, Naval Observatory	29.49	749.1	29.74	755.3	56.5	13.6	64	sw.	.....	.....	3	.....	5	.....	sw.	0.138	3.5	....	M. de Kermaree, Dir.
Caen, Normal School	29.58	751.4	29.66	753.3	52.9	11.6	67	nw.	.....	.....	2	.....	5	.....	sw.	0.165	4.2	cloudy.....	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.33	745.0	29.65	753.1	48.7	9.3	64	ssw.	.....	.....	4	.....	8	w.	w.	0	c	very cloudy	M. Jadot, Director.
Charleville, Normal School	29.17	740.8	29.68	753.8	47.8	8.8	71	w.	.....	.....	1	.....	5	.....	.....	0.283	7.2	½ covered...	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.48	723.3	29.83	757.6	53.1	11.7	47	w.	.....	.....	3	0	5 k	.....	.....	0	0	½ covered...	M. Alluard, Director.
Cluny, Normal School	28.98	736.0	29.82	757.4	51.8	11.0	46	s.	.....	.....	4	.....	4	.....	ssw.	0	0	.....	M. de Villemontée, Dir.
Commercy, Normal School	28.86	733.0	29.73	755.1	52.3	11.3	59	ssw.	.....	.....	1	ck	8 n	ssw.	ssw.	0.04	1.	very cloudy	Dr. Coulet, Director.
Gap, Normal Schoo!	27.24	691.8	29.70	754.4	60.1	15.6	16	nw.	.....	.....	3	2 ck	0	w.	.....	0	0	.....	M. Jeangirard, Director.
Gréasque, du. Rhone	28.67	728.2	29.78	756.3	60.3	15.7	45	wnw.	.....	.....	2	.....	2	.....	nw.	0	0	.....	M. Kinn, Director.
Grenoble, Normal School	29.03	737.4	29.80	756.8	54.1	12.3	44	nnw.	.....	.....	2	.....	kn	.....	nw.	0	0	.....	M. Ablard, Director.
Guéret, Normal School	28.22	716.8	29.80	756.9	48.2	9	65	sw.	.....	.....	4	.....	kn	.....	ne.	0.031	0.8	.....	M. Rivoire, Director.
Lamballe, Normal School	29.43	747.5	29.70	754.4	47.5	8.6	65	w.	.....	.....	3	.....	5	.....	w.	0.173	4.4	cloudy.....	M. Ollitrault, Director.
Lescar, Normal School	29.45	748.0	30.02	762.4	51.8	11	73	w.	.....	.....	2	.....	10	.....	.....	0.12	3.	covered	M. Chauvin, Director.
Lorient, Naval Observatory	29.67	753.5	29.77	756.1	55.4	13.0	70	sw.	.....	.....	2	.....	5	... .	sw.	0.122	3.1	½ covered...	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.78	730.9	29.82	757.5	58 3	14.6	36	w.	.....	.....	1	c	5 n	sw.	w.	0	0	cloudy.....	M. André, Director.
Mans, Normal School	29.48	748.8	29.79	756.7	50.5	10.3	61	w.	.....	.....	1	.....	8	.....	w.	0.248	6.3	very cloudy	M. Piboen, Director.
Marseille, Observatory	29.55	750.6	29.82	757.4	61.3	16.3	50	w.	.....	.....	2-3	.....	7	.....	w.	0	0	.....	M. Stephan, Director.
Montlouis l'instituteur	24.62	625.3	29.46	748.3	37.9	3.3	50	n.	5.6	2.5	.....	.....	9	.....	.....	0	0	.....	M. Cave, for Dr. Fines.
Montpellier, Normal School	29.68	753.8	29.81	757.1	62.2	16.8	41	wnw.	.....	.....	2	.....	2	.....	sw.	0	0	slightly cl'dy	M. Galzin, Director.
Nancy, Normal School	28.97	735.8	29.76	755.8	48.2	9	73	ssw.	.....	.....	1	0	5 kn	.....	.....	0	0	cloudy.....	M. Hasse, Director
Nantes, Observatory	29.64	752.9	29.80	757.0	55.4	13	49	wsw.	.....	.....	0-2	ck	8 kn;n	w.	w.	0	0	.....	M. Larocque, Director.
Perpignan, Observatory	29.76	756.0	29.87	758.8	58.5	14.7	25	n.	15.0	6.7	.....	.....	7	w.	wsw.	0	0	.....	Dr. Fines, Director.
Pic-du-Midi, Summit	20.96	532.4	.....	.....	20.8	— 6.2	.....	sw.	.....	.....	1	.....	5	.....	sw.	0.118	3.0	cloudy.....	Gen'l de Nansouty, Dir.
Privas, Normal School	28.80	731.6	29.86	768.4	59.4	15.2	45	n.	.....	.....	1	.....	1c	n.	s.	0	0	covered.....	M. Tallieu.
Puy de Dôme Obs'y, Summit	24.89	622.1	.....	.....	28.9	— 1.7	100	w.	.....	.....	6	.....	10	.....	.....	0.028	0.7	foggy	M. Alluard, Director.
Rochefort, Naval Obs'y	29.79	756.6	29.82	757.4	57.2	14.0	95	sw.	.....	.....	1	.....	8	.....	w.	0.004	0.1	¼ covered...	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.61	752.1	29.82	757.5	54.0	12.2	61	nw.	.....	.....	1	.....	5	.....	nw.	0.492	12.5	cloudy.....	M. Moullot, Director.
Rodez, Normal School	27.72	704.1	29.92	760.0	47.1	8.4	63	nw.	.....	.....	1	.....	5	.....	.....	0.020	0.5	fair.....	M. Serger, Director.
Rouen, Normal School	29.63	752.5	29.67	753.7	50.4	10.2	74	sw.	.....	.....	1	.....	5	.....	.....	0.220	5.6	cloudy.....	M. Flatrier, Director.
Saint Maur, Observatory	29.55	750.6	29.72	754.8	47.7	8.7	80	sw.	.....	.....	1	.....	7	.....	w.	0.244	6.2	.....	M. Renou, Director.
Toulouse, Observatory	29.20	741.6	29.92	759.9	59.5	15.3	38	nw.	.....	.....	1	.....	2	.....	nw.	0	0	slightly cl'dy	M. Baillaud, Director.
Versailles, Observatory	29.21	742.0	29.71	754.6	49.6	9.8	66	w.	.....	.....	2	.....	.....	.....	.....	0.012	0.3	.....	Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.42	747.3	29.71	754.7	50.5	10.3	72	wsw.	.....	.....	3	.....	8	.....	wsw.	0.244	6.2	.....	M. Marié Davy, Director
GERMAN.																			
Bamberg	28.88	733.7	29.73	755.2	57.2	14.0	44	sw.	.....	.....	3	0	6 k	.....	sw.	0	0	....	Prof. Dr. Hoh.
Berlin	29.52	749.8	29.69	754.2	57.4	14.1	50	s.	.....	.....	1	.....	9	.....	.....	0	0	.....	Prof. Dr. Arndt.
Breslau	29.23	742.5	29.76	755.8	61.0	16.1	48	s.	.....	.....	2	.....	3	.....	.....	0	0	.....	Royal University Obs'y.
Carlsruhe	29.34	745.1	29.77	756.1	53.2	11.8	58	sw.	.....	.....	3	.....	10	sw.	.....	0	0	.....	Albert Senz.
Cassel	28.97	735.7	29.68	753.8	50.7	10.4	65	s.	.....	.....	2	.....	6	s.	.....	0	0	.....	Dr. H. Möhl.
Frankfort on the Main	29.37	745.9	29.73	755 1	53.1	11.7	57	sw.	.....	.....	2	.....	10	.....	.....	0.083	2.1	.....	Physical Society.
Friedrichshafen	28.35	720.2	29.78	750.5	65.8	18.8	66	sw.	.....	.....	4	.....	9	w.	.....	0	0	.....	Wilhelm, Chief Tel.
Hamburg	29.57	751.0	29.66	753.4	51.1	10.6	83	se.	.....	.....	2	.....	9	s.	.....	0.106	2.7	.....	E. Preller.
Kiel	29.61	752.0	29.62	752.4	51.6	10.9	75	sse.	.....	.....	1	.....	10	....	.....	0.059	1.5	.....	Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.30	744.1	29.71	754.7	55.2	12.9	50	sw.	.....	.....	4	.....	6	sw.	.....	0	0	.....	H. Leppig, Asst.
Magdeburg	29.49	749.1	29.68	753.8	57.2	14.0	52	sw.	.....	.....	2	0	8 ks;k	....	sw.	0	0	.....	Dr. Assmann.
Memel	29.83	757.6	29.87	758.8	44.8	7.1	88	wsw.	.....	.....	2	0	3 s	.....	.....	.....	.....	.....	Issermann.
Munich	27.97	710.3	29.81	757.2	55.2	12.9	45	calm	.....	.....	0	.....	2	se.	.....	0	0	.....	Central Station.
Neufahrwasser	29.81	757.2	29.83	757.6	49.1	9.5	82	ne.	.....	.....	2	.....	6	.....	.....	0.039	1.0	.....	A. Lothes.
Neustadt, Palatinate	29.22	742.3	29.75	755.6	53.6	12.0	58	calm	.....	.....	0	.....	7	.....	.....	0	0	.....	Dicknether.
Stuttgart	28.80	731.6	29.69	754.1	54.9	12.7	47	w.	.....	.....	1	.....	8	w.	.....	0	0	.....	Prof. Dr. Schoder.
Wustrow	29.72	754.9	29.74	755.5	48.0	8.9	75	se.	.....	.....	2	.....	10 s	.....	.....	0	0	.....	Profs. Brandes & Reimer.
GREEK.																			
Athens	29.46	748 2	29.85	758.2	59.5	15.3	.....	ne.	.....	.....	0.1	.....	10	.....	.....	0.354	9.0	sprinkling...	Schmidt & Wourlisch.
INDIAN.																			
Bellary	28.28	718.3	.....	.....	100.0	37.8	19	e.	5.0	2.2	.....	1 c	1	.....	.....	0	0	d. clouds	
Kurrachee	29.88	759.0	29.93	760.3	83.8	28.8	40	nw.	27	12.1	.....	.....	8	w.	.....	0	0	gloomy.....	
Deesa	29.34	745.2	29.80	757.0	94.8	34.9	20	nw.	9.3	4.2	.....	.....	8	wnw.	.....	0	0	d. clouds.....	
Bombay	29.69	754.2	29.73	755.2	87.1	30.6	56	nnw.	29	13.0	.....	.....	3	.....	n.	0	0	blue sky.....	
Poona, Yarrowda.	27.89	708.0	29.66	753.5	100.6	38.1	13	nw.	15	6.7	.....	.....	8	w.	.....	0	0	d. clouds....	
Belgaum	27.26	692.4	29.80	756.8	75.4	24.1	66	sw.	6	2.7	.....	.....	6	se.	se.	0.41	10.4	thund'rst'm	
Lahore	29.04	737.6	29.77	756.2	88.6	31.4	22	sw.	1.8	0.8	.....	.....	8	.....	.....	0	0	misty.....	
Roorkee	28.85	732.8	29.73	755.2	88.2	31.2	14	nw.	3.0	1.3	.....	.....	7	.....	.....	0	0	.....	
Agra	29.20	741.6	29.74	755.4	98.9	37.2	13	nw.	4.1	1.8	.....	.....	0	.....	.....	0	0	.....	
Nagpur	28.70	728.9	29.70	754.4	102.2	39.0	10	calm	4.0	1.8	.....	.....	1	.....	.....	0	0	blue sky.....	
Jubbulpore	28.40	721.4	29.70	754.4	99.7	37.6	8	nnw.	2.4	1.1	.....	.....	0	.....	.....	0	0	blue sky.....	
Lucknow	29.34	745.2	29.70	754.4	98.0	36.7	12	wnw.	8.3	3.7	.....	.....	0	.....	.....	0	0	misty.....	
Allahabad	29.39	746.4	29.69	754.1	97.3	36.3	13	nw.	4.1	1.8	.....	.....	0	.....	.....	0	0	blue sky.....	
Patna	29.49	749.0	29.67	753.6	96.1	35.6	14	wnw.	5.6	2.5	.....	.....	0	.....	.....	0	0	blue sky.....	
Hazaribagh	27.75	704.8	29.70	754.2	93.8	34.3	10	nw.	10.1	7.2	.....	.....	0	.....	.....	0	0	blue sky.....	
Cuttack	29.66	753.4	29.74	755.4	88.1	31.2	65	s.	5.3	2.4	.....	.....	2	.....	.....	0	0	d. clouds.....	
Calcutta, Allpore	29.68	754.0	29.70	754.5	86.5	30.3	72	s.	9.0	4.0	.....	.....	0	.....	.....	0	0	blue sky.....	
Dhubri	29.57	751.0	29.69	754 1	75.5	24.2	84	ene.	12.6	5.6	.....	.....	6	wsw.	wsw.	0.30	7.6	d. clouds.....	
Chittagong	29.71	754.7	29.80	757.0	80.2	26.8	85	sw.	6.5	2.9	.....	.....	4	.....	.....	0	0	blue sky.....	
Sibsagar	29.46	748.3	29.80	757.0	69.0	20.6	95	ne.	3.5	1.6	.....	.....	10	w.	w.	0.41	10.4	gloomy	
Jeypore	28.37	720.5	29.77	756.2	92.7	33.7	13	nw.	6.4	3.9	.....	.....	7	nw.	.....	0	0	d. clouds.....	
Zanzibar, Africa	29.85	758.2	.....	.....	81.5	27.5	75	s.	7.0	3.1	.....	.....	8	.....	sse.	0.86	21.8	gloomy.....	
Trichinopoly	29.54	750.3	.....	.....	94.5	34.7	32	e.	1	0.4	.....	.....	0	.....	.....	0	0	blue sky.....	
ITALIAN.																			
Udine	29.41	747.1	29.82	757.4	60.4	15.8	32	.....	.....	.....	.....	.....	0	....	.....	0	0	.....	Prof. Giovanni Clodig.
Milan	29.28	743.6	29.79	756.7	61.5	16.4	35	se.	6.3	2.8	.....	.....	1	....	.....	0.	0	.....	Prof. Schiaparelli.
Padua	29.70	754.3	29.81	757.1	58.6	14.8	41	ese.	5.6	2.5	.....	.....	0	.....	.....	0	0	.....	Prof. Dott. Lorenzoni.
Moncalieri	28.97	733.4	29.79	756.6	58.3	14.6	49	n.	1.3	0.6	.....	.....	6	n.	.....	0.043	1.1	.....	Prof. P. F. Denza.
Genoa	29.61	752.0	29.80	756.9	59.5	15.3	64	sw.	4.9	2.2	.....	.....	0	.....	.....	0	0	.....	Prof. G. M. Garibaldi.
Mondovi	27.87	707.0	29.79	756.6	55.8	13.2	50	wnw.	.....	.....	6	.....	3	ne.	.....	0	0	.....	Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
ITALIAN.—Continued.																			
Pesaro	29.74	755.3	29.78	756.5	54.3	12.4	75	ne.	9.4	4.2	.....	.....	0	.....	.....	0	0	.....	Prof. Luigi Guidi.
Florence	29.52	749.9	29.78	756.4	60.8	16.0	47	nw.	.....	.....	2	.....	2	.....	.....	0	0	.....	Prof. Costantino Pitter.
Leghorn	29.65	753.0	29.73	755.2	59.2	15.1	72	wsw.	0	0	.....	.....	3	.....	.....	0	0	.....	Prof. P. Monte.
Rome	29.60	751.7	29.77	759.1	64.9	18.3	31	wsw.	1.8	0.8	.....	.....	0	.....	.....	0	0	.....	Prof. P. S. Ferrari.
Lecce	29.50	749.4	29.76	755.8	60.4	15.8	50	nnw.	6.3	2.8	.....	.....	2	.....	.....	0	0	.....	Prof. C. de Giorgi.
Cosenza	28.89	763.9	29.78	756.4	57.6	14.2	74	nne.	1.3	0.6	.....	.....	8	ne.	.....	0	0	.....	Prof. D. Conti.
Cagliari	29.56	750.8	29.75	755.7	61.9	16.6	40	wnw.	.....	.....	2	.....	2	.....	.....	0	0	.....	Prof. A. Pacinotti.
Palermo	29.53	750.0	29.78	756.4	61.3	16.3	70	ne.	8.7	3.9	.....	.....	4	.....	.....	0.024	0.6	.....	Prof. G. Ciacciatore.
Syracuse	29.72	754.8	29.76	756.0	57.0	13.9	74	ne.	11.2	5.0	.....	.....	10	ne.	.....	0.118	3.0	.....	Prof. Vincenzo Guiliano.
Sub-series.																			
Naples, S. R	29.25	743.0	29.77	756.1	62.6	17.0	64	wsw.	2.5	1.1	.....	.....	7	sw.	.....	0	0	.....	Prof. T. Brioschi.
Stelvio	21.91	556.7	.....	.....	30.4	— 0.9	69	sw.	.....	.....	4	.....	0	.....	.....	0	0	misty	Prof. P. F. Denza.
Valdobbia	21.95	557.6	.....	.....	33.6	0.9	70	ne.	.....	.....	2	.....	10	.....	.....	0	0	covered	Prof. P. F. Denza.
JAPANESE.																			
Aomori	30.25	768.3	30.29	769.3	39.2	4.0	82	s.	0.1	0.04	.....	cs	7 s	.....	.....	0	0	fair	K. Ogawa.
Hakodate	30.27	768.8	30.28	769.1	35.0	1.7	72	n.	1.8	0.8	.....	.....	0	.....	.....	0	0	clear	
Hiroshima, I. M. Obs'y	30.06	763.5	30.08	764.0	50.4	10.2	97	nne	3.4	1.5	.....	.....	10 n	.....	.....	1.079	27.4	raining	K. Sasaki.
Kanazawa	30.11	764.8	30.22	767.6	48.8	9.3	89	se.	4.0	1.8	.....	.....	10 n	.....	.....	0.335	8.5	light rain	S. Endo.
Kioto	30.08	764.0	30.25	768.3	51.5	10.8	90	w.	1.2	0.5	.....	.....	10 n	.....	.....	0.690	17.5	light rain	M. Tojima.
Kochi	30.19	766.8	30.21	767.3	58.5	14.7	91	se.	14.5	6.5	.....	.....	10 n	.....	s.	2.537	64.4	light rain	
Nagasaki, I. M. Obs'y	29.78	756.4	29.98	761.5	61.7	16.5	92	sse.	25.9	11.6	.....	.....	10 n	.....	.....	1.430	36.3	heavy rain	S. Takehayashi.
Niigata	30.18	766.5	30.22	767.6	48.2	9.0	81	ne.	1.5	0.7	.....	cs	10 s	.....	.....	0.065	1.6	cloudy	
Nobiru	30.29	769.3	30.30	769.6	44.0	6.7	78	nnw.	6.7	3.0	.....	10 cs	0	.....	.....	0.040	1.0	covered	H. Midzushina.
Supporo	.....	.....	.....	.....	30.7	— 0.7	85	calm	0	0	.....	.....	0	.....	.....	0	0	clear	
Tokei Obs'y, Yeddo	30.22	767.6	30.29	769.3	56.5	13.6	81	s.	11.2	5.0	.....	6 cs	4 ks;s	.....	sw.	0.375	9.5	cloudy	The Staff.
Wakayama	30.14	765.5	30.20	767.1	54.6	12.6	82	se.	5.2	2.3	.....	.....	10 n	.....	.....	0.494	12.6	light rain	Y. Kuwamura.
MAURITIUS.																			
Mauritius Observatory	29.78	756.4	29.96	761.0	79.6	26.4	77	e.	25.5	11.4	.....	2 c;cs	2 k;n	wsw.	.....	0.11	2.8	fair	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.75	603.2	29.97	761.2	59.9	15.5	82	sw.	.....	.....	.....	0	4	.....	w	0	0	clear	Vicente Fernandez.
Leon	24.46	621.5	30.17	766.5	58.2	14.6	73	w.	.....	.....	1	0	6	.....	.....	0	0	foggy	Prof. M. Leal.
Mazatlan	29.77	756.0	30.01	762.2	62.0	16.7	90	n.	0.9	0.4	.....	0	2 8	.....	s.	0	0	clear	F. Quijano, U. E.
Mexico, Central Obs'y	23.17	588.4	30.26	768.7	52.7	11.5	64	calm	0	0	.....	0	0	.....	.....	0	0	fine	M. Tena, M. D.
Morelia	24.26	616.3	30.40	772.2	58.1	14.5	75	s.	.....	.....	3	4	4	e.	se.	0	0	cloudy	The Staff.
Pabellon, Aguascalientes	24.03	610.2	30.08	764.0	57.9	14.4	58	calm	.....	.....	0	5	0	sw.	.....	0	0	½ cloudy	M. Y. de Leon, M. E.
Puebla, Catholic Institute	23.40	594 4	30.15	765.9	51.8	11.0	68	calm	0	0	.....	0	0	.....	.....	0	0	clear	Prof. P. Spina.
San Luis Potosi	24.30	617.2	30.27	768.7	61.8	16.6	77	se.	.....	.....	1	2	5	w.	w.	0.166	4.2	½ cloudy	G. Barroeta, M. D.
Vera Cruz	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. A. Bonilla, M. E.
Zacatecas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
NETHERLANDS.																			
Flushing	29.61	752.2	29.61	752.2	48.2	9.0	.....	sw.	.....	.....	2	.....	.....	.....	.....	0.169	4.3	.....	
Groningen	29.49	749.0	29.55	750.4	49.6	9.8	.....	s.	.....	.....	4	.....	.....	.....	.....	0.189	4.8	.....	
Helder	29.48	748.8	29.48	748.8	44.6	7.0	.....	wnw.	.....	.....	3	.....	.....	.....	.....	0.260	6.6	.....	
Hellevoetsluis	29.58	751.3	29.58	751.3	46.0	7.8	84	w.	.....	.....	3	.....	.....	.....	.....	0.173	4.4	.....	
Utrecht	29.54	750.3	29.59	751.5	50.2	10.1	74	sw.	.....	.....	4	.....	8	.....	.....	0.213	5.4	very cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.63	752.7	29.70	754.3	46.8	8.2	55	ese.	4	2	.....	.....	3	.....	.....	0	0	.....	
Brono	29.85	758.3	29 89	759.3	35.2	1.8	44	ne.	9	4	.....	.....	1	.....	.....	0	0	.....	
Christiania	29.69	754.0	29.84	757.8	37.4	3.0	81	ne.	7	3	.....	.....	10	.....	.....	0.083	2.1	.....	
Gjesvær	29.69	754.2	29.72	754.8	31.5	— 0.3	.....	sw.	.....	.....	6	.....	10	.....	.....	.....	.....	.....	
Lodingen	29.82	757.4	29.87	758.6	32.0	0.0	60	ssw.	.....	.....	4	.....	9	.....	.....	0	0	.....	
PORTUGUESE.																			
Angra, Azores	.....	.....	.....	.....	60.8	16.0	67	sse.	4.9	2.2	.....	.....	5	.....	.....	0	0	.....	Dr. J. A. Sampaio.
Campo Major	28.97	735.9	29.97	761.3	59.9	15.5	40	n.	4.9	2.2	.....	.....	0	.....	.....	0	0	.....	Dr. A. M. R. dos Santos.
Funchal, Maderia	30.13	765.3	30.22	767.5	63.7	17.6	57	sw.	.....	.....	.....	.....	8	.....	.....	0	0	.....	Capt. D. A. de Cunha.
Lisbon, Observatory	29.73	755.1	30.09	764.3	56.5	13.6	53	wnw.	12.5	5.6	.....	.....	8	.....	.....	blank	blank	.....	The Staff.
Ponta Delgada, Azores	30.28	769.2	30.35	771.0	62.6	17.0	55	w.	5.6	2.5	.....	.....	3	.....	.....	0	0	.....	
Saint Paul de Loando	29.63	752.7	29.84	757.8	82.0	27.8	90	wnw.	0.7	0.3	.....	.....	9	.....	.....	0	0	.....	
Serra da Estrella	25.17	639.2	30.02	762.4	35.6	2.0	73	nw.	15.4	6.9	.....	.....	10	.....	.....	0	0	.....	
RUSSIAN.																			
Akmolinski	29.42	747.3	30.60	777.1	18.1	— 7.7	78	e.	7	3	.....	0	0	.....	.....	0	0	.....	Major K. Lasarew.
Archangel	29.80	756.8	29.82	757.3	36.1	2.3	94	s.	2	1	.....	.....	10	.....	.....	0.079	2.0	raining	Capt. Sselliwerstow.
Astrakhan	30.13	765.4	30.05	763.3	51.4	10.8	56	se.	13	6	.....	0	3 8	.....	.....	0	0	light clouds	Capt. Wisganow.
Barnaul	30.09	764.3	30.64	778.2	16.7	— 8.5	70	w.	0	0	.....	.....	5	.....	.....	0	0	light clouds	Meteorological Obs'y.
Dorpat	29.55	750.5	29.80	756.8	40.5	4.7	86	ne.	4	2	.....	.....	10 n	.....	.....	0.031	0.8	light rain	Observatory.
Ekaterinburg	29.39	746.5	30.41	772.3	30.9	— 0.6	71	se.	9	4	.....	7 c	0	.....	.....	0	0	light clouds	Meteorological Obs'y.
Kasan	29.96	760.9	30.24	768.1	30.9	— 0.6	91	sse.	13	6	.....	.....	10	.....	.....	0	0	.....	Observatory.
Kertch	29.93	760.1	29.95	760.6	50.2	10.1	67	e.	2	1	.....	0	2 8	.....	.....	0	0	.....	Lagorlo & Sastyrez.
Kieff	29.20	741.6	29.82	757.5	58.1	14.5	62	sw.	7	3	.....	c	9 ks	.....	.....	0.020	0.5	.....	Observatory.
Lugan	29.72	754.9	29.93	760.1	49.3	9.6	75	ssw.	9	4	.....	.....	8	.....	.....	0.008	0.2	.....	Meteorological Obs'y
Moscow	29.34	745.2	29.82	757.4	43.9	6.6	74	s.	4	2	.....	.....	10 s	.....	.....	0.165	4.2	.....	Meteorological Obs'y.
Nikolaiev	29.91	759.7	29.98	761.5	60.8	16.0	57	ssw.	4	2	.....	4 c;ck	0	.....	.....	0	0	.....	Capt. Kurdakow.
Nikolaievsk, on the Amoor	30.02	762.4	30.10	764.6	24.8	— 4.0	99	se.	16	7	.....	.....	10	.....	.....	0	0	.....	Lieut. Iwanow.
Pekin, China	29.77	756.1	29.91	759.7	53.2	11.8	66	calm	0	0	.....	2 cs	0	.....	.....	0	0	.....	Physical Observatory
St. Petersburg	29.76	756.0	29.78	756.4	43.5	6.4	72	ene.	2	1	.....	.....	10 n	.....	.....	0	0	.....	Central Physical Obs
Tashkend, Laboratory	28.47	723.2	30.01	762.3	65.3	18.5	38	n.	18	8	.....	.....	0	.....	.....	0	0	.....	Teich, A. M.
Tiflis	28.54	725.0	29.94	760.4	64.8	18.2	34	e.	2	1	.....	.....	9 8	.....	.....	0	0	light clouds	Physical Observatory
Vladivostok	29.78	756.4	29.85	758.1	38.1	3.4	100	se.	7	3	.....	0	7 n	.....	.....	0	0	.....	
Warsaw	29.39	746.5	29.81	757.1	58.5	14.7	64	ssw.	4	2	.....	.....	ck	9 ks	.....	.....	.....	.....	Astronomical Obs'y
Wilna*	29.42	747.3	29.84	758.0	49.8	9.9	71	wsw.	2	1	.....	.....	9	.....	.....	0.004	0.1	.....	Berg, Assistant.
Yeniseisk	30.16	766.0	30.46	773.7	28.4	— 2.0	61	wnw.	4	2	.....	.....	7	.....	.....	0	0	.....	M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	29.73	755.1	29.84	757.8	59.5	15.3	68	s.	0.9	0.4	.....	.....	8	.....	.....	0	0	misty	Antonio Rave, Director.
Bilbao, Met. Obs'y	29.88	759.0	29.94	760.5	58.3	14.6	63	nw.	2.5	1.1	.....	2	3	se.	.....	0.055	1.4	cloudy	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	26.95	684.4	29.93	760 2	50.0	10.0	42	w.	5.6	2.5	.....	0	3	.....	.....	0	0	light clouds	Domingo Martin.
Madrid, Royal Obs'y	27.68	703.1	29.89	759.2	59.5	15.3	36	sw.	4.3	1.9	.....	1	1	.....	.....	0	0	light clouds	The Staff.
Murcia, Met. Obs'y	29.69	754.0	29.84	757.8	71.1	21.7	46	s.	5.1	2.3	.....	4	4	nne.	.....	Imap.	Imap.	cloudy	R. Gil Vallanueva, Dir.
Santiago, Met. Obs'y	29.02	737.1	29.92	760.0	54.9	12.7	74	w.	8.7	3.9	.....	.....	7	.....	.....	0.031	0.8	cloudy	
Sub-series.																			
Havana, Cuba, W. I	30.03	762 8	30.10	764.5	73.7	23.2	83	ese.	4.3	1.9	.....	9 c;cs	0	w.	.....	0.295	7.5	fair	Benito Vines, S. J.
Manilla, Philippine Islands	29.93	760.1	29.98	761.6	83.3	28.5	74	ese.	5.7	2.5	.....	0	8	.....	.....	0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.94	760.5	30.04	763.0	58.6	14.8	54	wnw.	11.7	5.3	.....	0	9	.....	w.	0	0	.....	Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	30.05	763.2	30.14	765.5	77.4	25.2	73	se.	12.8	5.7	.....	2 cs	3 k	ce.	se.	0	0	.....	Manuel Maeu.
Tuguegarao, Philippine Id's	29.89	759.2	30.03	762.7	77.9	25.5	86	nw.	3.3	1.5	.....	0	8 ks	.....	wnw.	0.01	0.3	covered	José L. Yrastorza.
SWEDISH																			
Haparanda	29.87	758.6	29.91	759.6	30.2	— 1.0	84	n.	.....	.....	2	.....	0	.....	.....	0	0	.....	
Umea	29.87	758.8	29.93	760.1	37.8	3.2	68	nne.	.....	.....	2	.....	8	.....	.....	0	0	.....	
Hernosand	29.87	758.6	29.92	759.9	37.6	3.1	64	calm	.....	.....	0	.....	6	.....	.....	0	0	.....	
Stockholm	29.68	753.9	29.86	758.4	37.0	2.8	82	ne.	.....	.....	2	.....	10	.....	.....	0.087	2.2	.....	
Wisby	29.70	754.3	29.76	755.8	38.8	3.8	90	nne.	.....	.....	2	.....	10	.....	.....	0.110	2.8	.....	
Sub-series.																			
Upsala	29.75	755.7	29.84	757.9	36.1	2.3	74	nne.	4.7	2.1	.....	.....	10	.....	nne.	0.004	0.1	.....	S. G. Fineman.
SWISS.																			
Geneva	28.42	721.8	29.85	758.3	50.9	10.5	49	sw.	.....	.....	3	.....	.....	.....	.....	0	0	covered	The Observatory

* Observation 49 minutes too early.

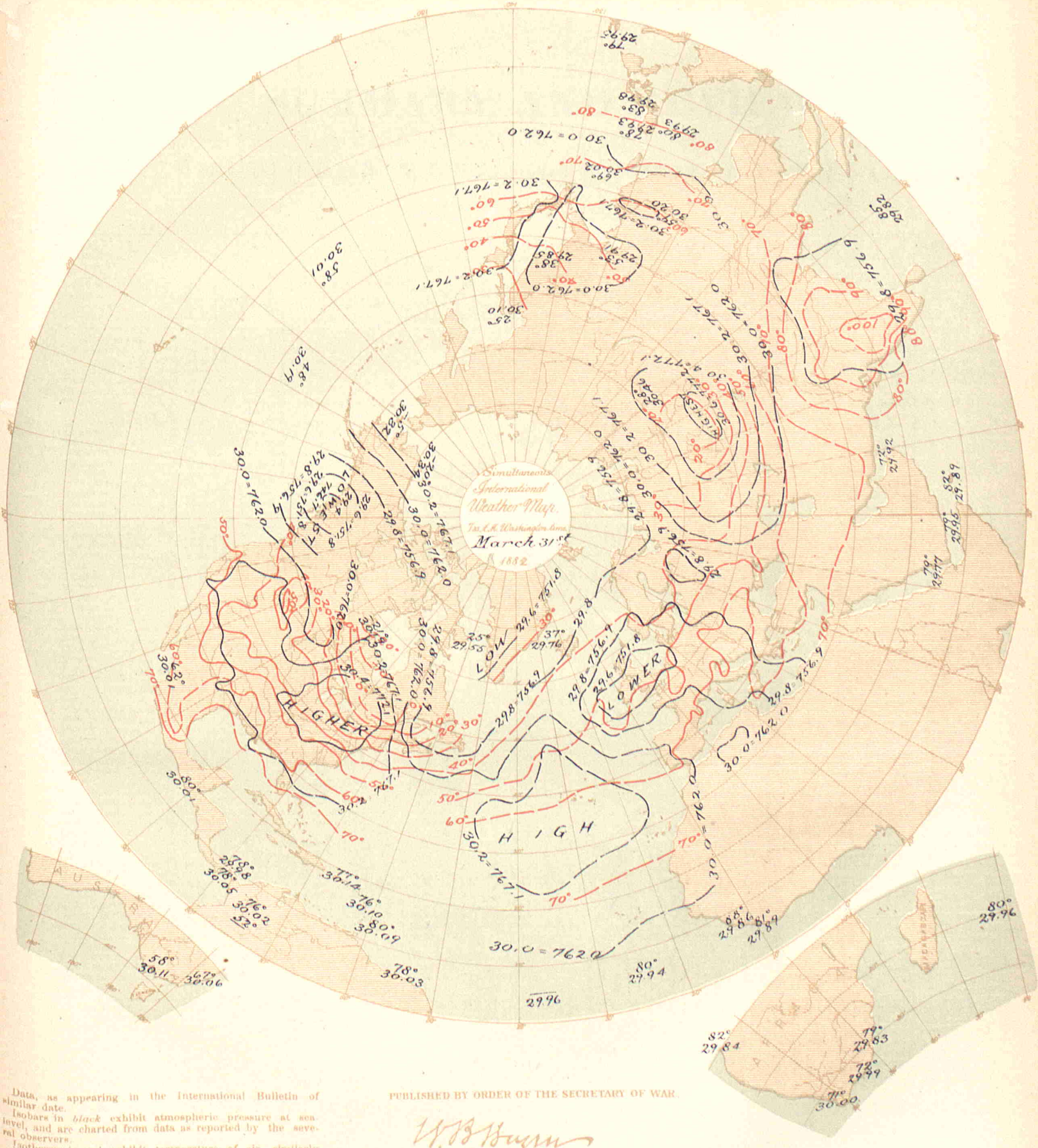
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
TURKISH.																			
Constantinople	.....	.....	29.94	760.4	48.6	9.2	76	nne.	15	6.5	.....	.....	10	.....	ne.	0	0	.....	The Observatory.
Valona	.....	.....	29.81	757.2	58.1	14.5	.....	s.	.....	.....	1	.....	2	.....	.....	0	0	slightly cl'dy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	29.93	760.2	67.5	19.7	70	ssw.	.....	.....	2	.....	10 n	.....	sw.	0	0	.....	Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	30.30	769.6	30.39	771.9	30	— 1.1	68	nw.	10	4.5	.....	0	9 ks	.....	nw.	0	0	cloudy	J. O. Barnes.
Alpena, Michigan	29.88	758.9	30.58	776.7	14.5	— 9.7	80	nw.	4	1.8	.....	2 k	0	nw.	.....	0.02	0.5	clear	Jas. J. Fitzgerald.
Atlanta, Georgia	29.14	740.1	30.35	770.9	54.8	12.7	39	ne.	7	3.1	.....	0	0	.....	.....	0	0	clear	H. Hall.
Atlantic City, New Jersey	30.38	771.6	30.39	771.9	35	1.7	66	n.	16	7.2	.....	8 k	0	w.	.....	0	0	cloudy	Jas. M. Watson.
Augusta, Georgia	30.15	765.8	30.35	770.9	55.0	12.8	74	n.	2	0.9	.....	0	0	.....	.....	0	0	clear	John Healy.
Baltimore, Maryland	30.40	772.1	30.45	773.4	40	4.4	48	n.	10	4.5	.....	hz.	hz.	.....	.....	0	0	clear	Robert Seyboth.
Barnegat, New Jersey	30.39	771.9	30.41	772.4	34.2	1.2	60	n.	16	7.2	.....	3 k	6 s	w.	n.	0	0	cloudy	Chas. F. Merritt.
Bismarck, Dakota	28.06	712.7	29.98	761.5	31	— 0.6	88	e.	3	1.3	.....	5 c	0	.....	.....	0	0	fair	Cyrus Cramer.
Boise City, Idaho	27.34	694.4	30.26	768.6	47	8.3	77	w.	3	1.3	.....	0	0	.....	.....	0	0	clear	B. E. Light.
Boston, Massachusetts	30.14	765.5	30.30	769.6	26.5	— 3.1	57	nw.	16	7.2	.....	5 k	0	nw.	.....	0.11	2.8	fair	O. B. Cole.
Brownsville, Texas	30.06	763.5	30.12	765.0	71	21.7	94	calm	0	0	.....	.....	10 s	.....	e.	0	0	cloudy	J. C. Galloway.
Buffalo, New York	29.74	755.4	30.53	775.4	19.4	— 7.0	67	w.	12	5.4	.....	2 k	4 ks	w.	w.	0.04	1.0	fair	Wm. Finn.
Burlington, Vermont	30.09	764.3	30.40	772.1	12.3	—10.9	60	nw.	14	6.3	.....	0	4 s	.....	nw.	inap.	inap.	fair	G. C. Schneffer.
Cairo, Illinois	30.02	762.5	30.44	773.2	46.7	8.2	63	ne.	9	4.0	.....	2 c	0	w.	.....	0	0	clear	W. H. Ray.
Campo, California	27.49	698.2	30.10	764.5	39.8	4.3	92	e.	4	1.8	.....	3 c	2 ks	w.	.....	0	0	fair	W. H. Clendenon.
Camp Thomas, Arizona	27.29	693.2	30.07	763.6	48.5	9.2	73	calm	.....	.....	0	0	0	.....	.....	0	0	clear	J. T. Fitzgerald.
Cape Henry, Virginia	30.34	770.6	30.36	771.1	47	8.3	68	e.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. E. Lanouette.
Cape May, New Jersey	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. Bolten.
Castroville, Texas	29.36	745.7	30.19	766.8	67	19.4	90	calm	0	0	.....	.....	10 s	.....	s.	0	0	cloudy	T. Jones.
Cedar Keys, Florida	30.18	766.6	30.20	767.1	61	16.1	84	calm	0	0	.....	6 cs	0	.....	.....	0	0	fair	F. W. Mixer.
Champaign, Illinois	29.61	752.1	30.47	773.9	34.7	1.5	80	se.	11	4.9	.....	3 c	0	n.	.....	0	0	clear	L. A. Welsh.
Charleston, S. Carolina	30.21	767.3	30.27	768.8	60	15.6	54	ne.	11	4.9	.....	0	0	.....	.....	0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.48	748.8	30.36	771.1	54.0	12.2	32	ne.	10	4.5	.....	0	sk.	.....	.....	0	0	clear	D. O. Donoghue.
Chattanooga, Tennessee	29.54	750.3	30.39	771.9	52.0	11.1	47	ne.	5	2.2	.....	2 cs	0	calm	.....	0	0	clear	B. L. Goulding.
Cheyenne, Wyoming	24.19	614.4	30.37	771.4	38.1	3.4	27	sw.	8	3.6	.....	0	0	.....	.....	0	0	clear	E. McGovern.
Chicago, Illinois	29.71	754.6	30.45	773.4	36.8	2.7	59	se.	6	2.7	.....	10 ck	0	nw.	.....	0	0	cloudy	J. Mitchell.
Chincoteague, Virginia	30.35	770.9	30.37	771.4	40.7	4.8	73	nw.	12	5.4	.....	4 c	2 s	w.	.....	0	0	fair	F. C. Pratz.
Cincinnati, Ohio	29.85	758.2	30.54	775.7	40	4.4	48	n.	5	2.2	.....	0	0	.....	.....	0	0	clear	R. B. Watkins.
Cleveland, Ohio	29.78	756.4	30.56	776.2	28	— 2.2	77	n.	8	3.6	.....	.....	10 s	.....	n.	0	0	cloudy	J. B. Newlin.
Coleman City, Texas	28.36	720.3	30.21	767.3	56	13.3	80	s.	5	2.2	.....	0	2 s	.....	.....	0	0	clear	L. Dorman.
Columbus, Ohio	29.64	752.8	30.53	775.4	35	1.7	53	n.	2	0.9	.....	7 k	0	w.	.....	0	0	fair	D. Cuthbertson.
Concho, Texas	28.23	717.0	30.20	767.1	62	16.7	90	calm	0	0	.....	.....	10 s	.....	s.	0	0	cloudy	W. W. McConihe.
Davenport, Iowa	29.73	755.1	30.42	772.7	37	2.8	61	e.	6	2.7	.....	0	hz.	.....	calm	0	0	clear	R. R. Martin.
Dayton, Washington T'y	28.29	718.6	30.10	764.5	43.2	6.2	73	se.	1	0.4	.....	0	c	.....	.....	0	0	clear	H. Clifford.
Deadwood, Dakota	25 41	645.4	30.25	768.3	40	4.4	46	sw.	4	1.8	.....	0	0	.....	.....	0	0	clear	G. W. Scott.
Decatur, Texas	.....	.....	.....	.....	60	15.6	65	se.	7	3.1	.....	0	2 s	.....	.....	0	0	clear	D. J. Carr.
Delaware Breakwater, Del.	30.35	770.9	30.37	771.4	41	5.0	73	n.	15	6.7	.....	6 cs;k	0	w.	.....	0	0	fair	A. Schneider.
Denison, Texas	29.38	746.2	30.21	767.3	60.3	15.7	87	calm	0	0	.....	.....	0	.....	.....	0	0	clear	J. McGlone.
Denver, Colorado	24.91	632.7	30.35	770.9	38.5	3.6	44	s.	11	4.9	.....	0	0	.....	.....	0	0	clear	F. M. Neal.
Des Moines, Iowa	29.38	746.2	30.34	770.6	32	0.0	78	s.	5	2.2	.....	3 c	3 s	w.	.....	0	0	fair	F. W. Conrad.
Detroit, Michigan	29.83	757.7	30.58	776.7	29.1	— 1.6	77	n.	9	4.0	.....	.....	10 s	.....	calm	0	0	cloudy	C. F. R. Wappenhans.
Dodge City, Kansas	27.61	701.3	30.34	770.6	43.5	6.4	72	sw.	2	0.9	.....	0	0	.....	.....	0	0	clear	E. A. Thomas.
Dubuque, Iowa	29.66	753.4	30.41	772.4	34.5	1.4	71	se.	4	1.8	.....	5 k	0	sw	.....	0	0	fair	J. Harvey Smith.
Duluth, Minnesota	29.51	749.5	30.25	768.3	25	— 3.9	73	sw.	1	0.4	.....	0	8 s	.....	sw.	0	0	cloudy	N. B. Conger.
Eagle Pass, Texas	29.38	746.2	30.20	767.1	67.1	19.5	90	se.	5	2.2	.....	.....	10 s	.....	se.	0	0	cloudy	F. Belford.
Eagle Rock, Idaho	25.52	648.2	30.40	772.1	30	— 1.1	80	n.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. M. Clifford.
Eastport, Maine	29.97	761.2	30.04	763.0	15	— 9.4	48	nw.	18	8.0	.....	0	0	.....	.....	0.16	4.1	clear	J. H. Melton.
El Paso, Texas	26.37	669.8	30.17	766.3	43	6.1	68	nw.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.78	756.4	30.55	776.0	26	— 3.3	76	n.	10	4.5	.....	8 k	0	n.	.....	0.01	0.3	cloudy	R. H. Paxton.
Escanaba, Michigan	29.80	756.9	30.51	774.9	12	—11.1	80	calm	0	0	.....	5 ck	0	nw.	.....	0.03	0.8	fair	C. Dill.
Florence, Arizona	28.52	724.4	30.09	764.3	51.2	10.7	54	w.	3	1.3	.....	0	1 k	.....	.....	0	0	clear	R. R. Herman.
Fort Apache, Arizona	25.18	639.6	30.20	767.1	40	4.4	62	ne.	3	1.3	.....	0	0	.....	.....	0	0	clear	W. C. Barnes.
Fort Assinnaboine, Montana	27.02	686.3	30.03	762.7	45	7.2	49	sw.	20	8.9	.....	1 c	5 s	w.	w.	0	0	fair	B. O. Lenoir.
Fort Bennett, Dakota	28.36	720.3	30.06	763.5	30	— 1.1	70	calm	0	0	.....	10 cs	0	.....	.....	0	0	cloudy	T. Gibson.
Fort Benton, Montana	27.10	688.3	30.08	764.0	52	11.1	55	sw.	30	13.4	.....	5 k	0	sw.	.....	0	0	fair	S. Wheaton.
Fort Buford, Dakota	27.88	708.1	30.02	762.5	34	1.1	71	s.	7	3.1	.....	.....	10 s	.....	calm	0	0	cloudy	A. H. Bell.
Fort Custer, Montana	26.83	681.5	30.16	766.1	54	12.2	40	sw.	16	7.2	.....	0	8 s	.....	calm	0	0	cloudy	V. Verge.
Fort Davis, Texas	25.26	641.6	30.14	765.5	48	8.9	54	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. Williams.
Fort Elliott, Texas	27.40	695.9	30.23	767.8	45	7.2	63	e.	2	0.9	.....	0	0	.....	.....	0	0	clear	W. J. Cundall.
Fort Gibson, Indian T'y	29.65	753.1	30.24	768.1	57.3	14.1	64	e.	12	5.4	.....	8 cs	0	s.	.....	inap.	inap.	cloudy	J. B. Campbell.
Fort Grant, Arizona	25.31	642.9	30.14	765.5	52	11.1	32	e.	2	0.9	.....	0	0	.....	.....	0	0	clear	T. J. Macgowan.
Fort Griffin, Texas	28.87	733.3	30.22	767.6	54	12.2	86	ne.	4	1.8	.....	0	0	.....	.....	0	0	clear	G. H. Hayne.
Fort Keogh, Montana	27.43	696.7	30.08	764.0	35	1.7	55	sw.	1	0.4	.....	2 c	0	.....	.....	0	0	clear	W. B. Stockman.
Fort Macon, North Carolina	30.32	770.1	30.33	770.4	55	12.8	55	ne.	8	3.6	.....	0	0	.....	.....	0	0	clear	L. Leonardy.
Fort McKavett, Texas	27.93	709.4	30.25	768.3	62	16.7	84	s.	5	2.2	.....	.....	10 s	.....	s.	0	0	cloudy	J. E. Thatcher.
Fort Missoula, Montana	26.88	682.7	30.26	768.6	31	— 0.6	81	nw.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. H. Jones.
Fort St. Michaels, Alaska	30.28	769.1	30.32	770.1	— 5	—20.6	100	n.	7	3.1	.....	0	5 s	.....	n.	inap.	inap.	fair	A. P. Leavitt.
Fort Shaw, Montana	26.31	668.3	30.11	764.8	51	10.6	32	sw.	19	8.5	.....	5 cs	0	.....	.....	0	0	fair	A. L. Mathews.
Fort Sill, Indian Territory	28.94	735.1	30.24	768.1	55.3	12.9	76	n.	6	2.7	.....	0	0	.....	.....	0	0	clear	T. Cleary.
Fort Stevenson, Dakota	27.99	710.9	29.97	761.2	34	1.1	81	w.	7	3.1	.....	hz.	0	.....	.....	0	0	light haze	W. Burrows.
Fort Verde, Arizona	.....	.....	.....	.....	45	7.2	41	sw.	.....	.....	1	0	0	.....	.....	0	0	clear	D. Brooks.
Fort Washakie, Wyoming	24.63	625.6	.....	.....	32.7	0.4	58	sw.	4	1.8	.....	1 ck	4 k	sw.	sw.	0	0	fair	T. M. Ambler.
Fredericksburg, Texas	28.44	722.4	30.20	767.1	63	17.2	90	sw.	10	4.5	.....	.....	10 ks	.....	sw.	0	0	cloudy	H. S. Miles.
Galveston, Texas	30.15	765.8	30.19	766.8	69	20.6	90	se.	6	2.7	.....	0	5 ks	.....	sw.	0	0	fair	E. O'C. MacInernev.
Grand Haven, Michigan	29.81	757.2	30.51	774.9	26.0	— 3.3	76	ne.	12	5.4	.....	6 k	0	nw.	.....	0	0	fair	W. A. Reid.
Hatteras, North Carolina	30.28	769.1	30.30	769.6	54	12.2	61	ne.	22	9.8	.....	0	sk.	.....	.....	0	0	clear	R. M. Crawford.
Helena, Montana	25.81	655.6	30.18	766.6	47	8.3	52	sw.	12	5.4	.....	.....	10 s	.....	sw.	0	0	cloudy	N. C. Smith.
Henrietta, Texas	29.24	742.7	30.28	769.1	58	14.4	80	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. W. Byram.
Huron, Dakota	28 59	726.2	30.07	763.8	34.8	1.6	79	se.	9	4.0	.....	.....	10 s	.....	.....	0	0	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.65	753.1	30.49	774.4	36	2.2	69	e.	4	1.8	.....	0	hz.	.....	calm	0	0	clear	O. Schutze
Indianola, Texas	30.13	765.3	30.16	766.1	71.0	21.7	94	e.	8	3.6	.....	0	8 ks	.....	e.	0	0	cloudy	L. A. Reed.
Jacksboro, Texas	29.01	736.8	30.22	767.6	58	14.4	86	se.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. P. Sherry.
Jacksonville, Florida	30.19	766.8	30.24	768.1	59	15.0	75	e.	5	2.2	.....	2 cs	fg.	.....	.....	0	0	clear	J. W. Smith.
Keokuk, Iowa	29.68	753.9	30.37	771.4	34.0	1.1	78	se.	7	3.1	.....	0	0	.....	.....	0	0	clear	F. Z. Gosewisch
Key West, Florida	30.10	764.5	30.12	765.0	75.0	23.9	79	n.	9	4.0	.....	5 cs	5 s	w.	.....	inap.	inap.	cloudy	L. M. Melbourne.
Kittyhawk, North Carolina	30.33	770.4	30.35	770.9	48	8.9	77	ne.	12	5.4	.....	1 c;hz	0	.....	.....	0	0	clear	E. A. Beals.
Knoxville, Tennessee	29.37	746.0	30.43	772.9	47.8	8.8	50	ne.	10	4.5	.....	4 k	2 s	w.	.....	0	0	fair	J. A. Cody.
La Crosse, Wisconsin	29.48	748.8	30.30	769.6	37	2.8	82	s.	15	6.7	.....	.....	10 s	.....	.....	0	0	cloudy	S. C. Emery.
La Mesilla, New Mexico	26.22	666.0	30.17	766.3	42.0	5.6	52	calm	0	0	.....	0	0	.....	.....	0	0	clear	N. D. Lane.
Leavenworth, Kansas	29.40	746.7	30.34	770.6	38	3 3	62	se.	6	2.7	.....	2 cs	0	.....	.....	0	0	clear	A. W. Browne.
Lewiston, Idaho	29.24	742.7	30.10	764.5	43.6	6.4	64	e.	6	2.7	.....	0	0	.....	.....	0	0	clear	W. Blake.
Little Rock, Arkansas	29.96	761.0	30.29	769.4	57	13.9	57	n.	12	5.4	.....	.....	10 s	.....	sw.	0	0	cloudy	M. F. Burrows.
Los Angeles, California	29.83	757.7	30.23	767.8	53.0	11.7	86	ne.	1	0.4	.....	.....	10 s	.....	calm	0	0	cloudy	E. F. Kubel.
Louisville, Kentucky	29.86	758.4	30.46	773.7	41	5.0	57	ne.	8	3.6	.....	0	0	.....	.....	0	0	clear	H. C. Smith.
Lynchburg, Virginia	29.66	753.4	30.38	771.6	49.3	9.6	31	nw.	5	2.2	.....	0	0	.....	.....	0	0	clear	T. H. Breen.
Madison, Wisconsin	29 36	745.7	30.43	772.9	33	0.6	78	e.	8	3.6	.....	.....	10 s	.....	se.	0	0	cloudy	C. A. Shaw.
Marquette, Michigan	29.70	754.4	30.47	773.9	17	— 8.3	67	sw.	8	3.6	.....	6 ck	3 s	sw.	sw.	0.06	1.5	cloudy	I. Gilligan.
Mason, Texas	28.53	724.6	30.22	767.6	63.5	17.5	86	s.	5	2.2	.....	.....	10 s	.....	s.	0	0	cloudy	A. M. Wilson.
Memphis, Tennessee	30.00	762.0	30.35	770.9	50	10.0	77	nw.	9	4.0	.....	.....	10 n	.....	.....	0.20	5.1	thund'r st'm.	D. T. Flannery.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–01	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Milwaukee, Wisconsin	29.68	753.9	30.47	773.9	32	0.0	78	e.	15	6.7	.....	.....	10 s	.....	se.	0	0	cloudy	W. Line.
Mobile, Alabama	30.20	767.1	30.24	768.1	57	13.9	86	n.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. D. Paxton.
Montgomery, Alabama	30.02	762.5	30.26	768.6	55	12.8	80	nw.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. B. McLaughlin.
Moorhead, Minnesota	28.98	736.1	30.06	763.5	22	— 5.6	100	se.	28	12.5	.....	0	0	.....	.....	0.03	c.8	clear	H. Bessant.
Morgantown, W. Virginia	29.47	748.5	30.53	775.4	33.0	0.6	60	ne.	7	3.1	.....	0	4 s	.....	e.	0	0	fair	J. Sprigg, jr.
Mt. Washington, N. H.	23.22	589.8	29.74	755.4	—15.0	—26.1	88	nw.	80	35.8	.....	.....	fg.	.....	nw.	0.23	5.8	light fog	J. G. Linsley.
Nashville, Tennessee	29.83	757.7	30.39	771.9	49.5	9.7	51	ne.	4	1.8	.....	7 ck	0	w.	.....	0	0	fair	L. A. Jesunofsky.
New Haven, Connecticut	30.22	767.6	30.34	770.6	30	— 1.1	56	nw.	11	4.9	.....	0	0	.....	.....	0.22	5.6	clear	J. H. Sherman.
New London, Connecticut	30.31	769.9	30.36	771.1	33	0.6	57	w.	13	5.8	.....	2 c	0	w.	.....	0.09	2.3	clear	J. G. Lynch.
New Orleans, Louisiana	30.13	765.3	30.19	766.8	62.5	16.9	86	e.	3	1.3	.....	hz.	fg.	.....	.....	0	0	clear	A. J. Armstrong.
Newport, Rhode Island	30.26	768.6	30.31	769.9	31.2	— 0.4	49	nw.	23	10.3	.....	0	0	.....	.....	0.04	1.0	clear	W. McGillivray.
New River, N. Carolina	.....	.....	.....	.....	51	10.6	59	n.	.....	.....	1	0	0	.....	.....	0	0	clear	C. C. Corbin.
New Shoreham, Rhode I'd.	30.29	769.4	30.32	770.1	31.2	— 0.4	57	nw.	30	13.4	.....	0	0	.....	.....	0.04	1.0	clear	W. Davis.
New York, New York	30.21	767.3	30.39	771.9	32.2	0.1	60	nw.	12	5.4	.....	0	0	.....	.....	0.07	1.8	clear	E. B. Garriott.
Norfolk, Virginia	30.33	770.4	30.36	771.1	50	10.0	72	e.	2	0.9	.....	0	hz.	.....	.....	0	0	clear	J. T. Elker.
North Platte, Nebraska	27.23	691.6	30.29	769.4	35.6	2.0	79	nw.	5	2.2	.....	0	1 s	.....	.....	0	0	clear	E. F. Brady.
Olympia, Washington T'y	29.99	761.7	30.03	762.7	41.0	5.0	92	ne.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. Dascomb.
Omaha, Nebraska	29.04	737.6	30.29	769.4	36.9	2.7	64	sw.	8	3.6	.....	2 c; hz	0	.....	.....	0	0	clear	A. Pollak.
Ooglaamie, Pt. Barrow, Alas.	30.32	770.1	30.34	770.6	—20.4	—29.1	86	wnw	8	3.6	.....	0	2 s	.....	.....	0	0	clear	P. H. Ray.
Oswego, New York	30.13	765.3	30.47	773.9	20.0	— 6.7	62	n.	15	6.7	.....	0	7 k	.....	nw.	inap.	inap.	fair	S. W. Beall.
Palestine, Texas	29.68	753.9	30.25	768.3	61.0	16.1	90	s.	3	1.3	.....	0	0	.....	.....	0	0	clear	L. M. Pindell.
Pensacola, Florida	30.21	767.3	30.24	768.1	59.7	15.4	70	n.	6	2.7	.....	0	0	.....	.....	0	0	clear	M. McGauran.
Philadelphia, Pa	30.32	770.1	30.42	772.7	37	2.8	61	nw.	12	5.4	.....	0	0	.....	.....	inap.	inap.	clear	T. F. Townsend.
Pike's Peak, Colorado	17.93	455.4	30.52	775.2	17.5	— 8.1	73	sw.	22	9.8	.....	0	0	.....	.....	0	0	clear	L. M. Dey.
Pioche, Nevada	24.25	615.9	30.39	771.9	41	5.0	40	calm	0	0	.....	0	0	.....	.....	0	0	clear	C. K. Kitchel.
Pittsburg, Pennsylvania	29.67	753.6	30.52	775.2	31.8	— 0.1	60	n.	7	3.1	.....	0	0	.....	.....	inap.	inap.	clear	J. H. Bryce.
Port Eads, Louisiana	30.22	767.6	30.23	767.8	65.2	18.4	93	ne.	12	5.4	.....	0	hz.	.....	.....	inap.	inap.	clear	H. G. Christian.
Port Huron, Michigan	29.85	758.2	30.57	776.5	19.6	— 6.9	76	nw.	8	3.6	.....	0	0	.....	.....	0.15	3.8	clear	W. O. Bailey.
Portland, Maine	30.17	766.3	30.22	767.6	25.0	— 3.9	37	nw.	14	6.3	.....	1 k	0	nw.	.....	0.06	1.5	clear	D. C. Murphy.
Portland, Oregon	29.99	761.7	30.06	763.5	42.0	5.6	92	calm	0	0	.....	0	0	.....	.....	0	0	clear	M. L. Hearne.
Portsmouth, N. Carolina	.....	.....	.....	.....	49	9.4	71	ne.	27	12.1	.....	3 c	0	ne.	.....	0	0	clear	F. P. Chaffee.
Prescott, Arizona	24.88	631.9	30.22	767.6	40	4.4	35	s.	3	1.3	.....	0	b	.....	.....	0	0	clear	J. Mc N. Wright.
Provincetown, Mass	30.23	767.8	30.26	768.6	29	— 1.7	67	nw.	16	7.2	.....	4 k	0	nw.	.....	0.03	0.8	fair	P. T. Jenkins.
Punta Rassa, Florida	30.13	765.3	30.14	765.5	65	18.3	73	ne.	11	4.9	.....	9 ck	0	w.	.....	0.15	3.8	cloudy	W. J. Evans.
Red Bluff, California	29.71	754.6	30.09	764.3	54.1	12.3	77	nw.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.88	758.9	30.12	765.0	70	21.1	94	e.	3	1.3	.....	.....	10 s	.....	e.	0	0	cloudy	W. H. Taylor.
Rochester, New York	29.79	756.7	30.49	774.4	20	— 6.7	84	n.	16	7.2	.....	0	9 ks	.....	n.	0.03	0.8	cloudy	A. T. Sherwood.
Roseburg, Oregon	29.57	751.1	30.13	765.3	43	6.1	83	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. J. Naury.
Sacramento, California	30.00	762.0	30.08	764.0	51.6	10.9	86	se.	9	4.0	.....	0	0	.....	.....	0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.80	756.9	30.43	772.9	38.2	3.4	82	e.	7	3.1	.....	0	2 s	.....	.....	0	0	clear	J. H. Webber.
St. Paul, Minnesota	29.31	744.5	30.23	767.8	30.5	— 0.8	79	se.	12	5.4	.....	6 ck	2 ks	w.	s.	0	0	fair	O. S. M. Cone.
St. Vincent, Minnesota	28.97	735.8	29.91	759.7	21	— 6.1	84	se.	24	10.7	.....	.....	9 k; s	.....	w; c	0	0	cloudy	G. Kingsbury.
Salt Lake City, Utah	25.83	656.1	30.35	770.9	43	6.1	53	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. Craig.
San Antonio, Texas	29.47	748.5	30.18	766.6	66.5	19.2	90	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	E. Lane.
San Diego, California	30.04	763.0	30.11	764.8	54.5	12.5	92	n.	3	1.3	.....	.....	10 n	.....	.....	inap.	inap.	light rain	A. C. Dobbins.
Sandusky, Ohio	29.83	757.7	30.55	776.0	31.2	— 0.4	68	ne.	12	5.4	.....	0	5 k	.....	e.	0	0	fair	M. H. Perry.
Sandy Hook, New Jersey	30.37	771.4	30.41	772.4	34.0	1.1	61	nw.	24	10.7	.....	3 k	0	nw.	.....	0.03	0.8	clear	B. A. Blundon.
San Francisco, California	30.08	764.0	30.15	765.8	52	11.1	93	w.	5	2.2	.....	.....	fg.	.....	w.	0	0	dense fog	N. Gorom.
Santa Fé, New Mexico	23.37	593.6	30.35	770.9	47	8.3	28	ne.	10	4.5	.....	0	0	.....	.....	0	0	clear	H. N. Jones.
Savannah, Georgia	30.19	766.8	30.28	769.1	61	16.1	56	ne.	5	2.2	.....	0	0	.....	.....	0	0	clear	H. M. Ford.
Shreveport, Louisiana	29.99	761.7	30.24	768.1	62	16.7	93	se.	3	1.3	.....	hz.	0	.....	.....	0	0	clear	E. N. Meekins.
Silver City, New Mexico	24.36	618.7	30.14	765.5	42	5.6	40	s.	1	0.4	.....	2 cs	0	calm	.....	0	0	clear	J. B. Wallace.
Sitka, Alaska	29.24	742.7	29.31	744.5	27	— 2.8	88	calm	0	0	.....	.....	9 s	.....	calm	0	0	threatening	J. J. McLean.
Smithville, North Carolina	30.27	768.8	30.31	769.9	55	12.8	69	ne.	9	4.0	.....	0	0	.....	.....	0	0	clear	J. C. Rickli.
Spokane Falls, Wash. Ter.	27.98	710.7	30.11	764.8	38	3.3	82	ne.	3	1.3	.....	0	0	.....	.....	0	0	clear	D. Moore.
Springfield, Illinois	29.71	754.6	30.43	772.9	38	3.3	62	se.	10	4.5	.....	0	0	.....	.....	0	0	clear	T. B. Jennings.
Springfield, Massachusetts	30.20	767.1	30.34	770.6	31.0	— 0.6	47	nw.	10	4.5	.....	8 k	0	nw.	.....	0.01	0.3	cloudy	T. S. Outram.
Springfield, Mo	28.84	732.5	30.40	772.1	49	9.4	63	se.	8	3.6	.....	0	2 s	.....	se.	0	0	clear	J. B. Marbury.
Stockton, Texas	27.08	687.8	30.16	766.1	53.3	11.8	86	sw.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. O'Dowd.
Thatcher's Island, Mass	30.20	767.1	30.26	768.6	27.0	— 2.8	88	nw.	24	10.7	.....	0	0	.....	.....	0.07	1.8	clear	G. Liebmann.
Toledo, Ohio	29.80	756.9	30.53	775.4	34	1.1	72	n.	6	2.7	.....	0	7 k	.....	n.	0	0	fair	A. Buell.
Tucson, Arizona	27.62	701.5	30.08	764.0	53	11.7	50	se.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.70	754.4	30.08	764.0	42.0	5.6	73	se.	5	2.2	.....	1 cs	0	.....	.....	0	0	clear	R. P. Sibley.
Uvalde, Texas	29.20	741.7	30.18	766.6	65	18.3	90	se.	2	0.9	.....	.....	10 ks	.....	s.	0	0	cloudy	E. C. Imlay.
Vicksburg, Mississippi	29.98	761.5	30.24	768.1	61	16.1	84	e.	5	2.2	.....	0	fg.	.....	calm	0	0	clear	T. J. Kenan.
Visalia, California	29.72	754.9	30.10	764.5	58	14.4	67	s.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. T. Cochran.
Washington, D. C.	30.32	770.1	30.44	773.2	41	5.0	48	nw.	14	6.3	.....	0	0	.....	.....	0	0	clear	B. M. Purssell.
West Las Animas, Colorado	26.23	666.2	30.31	769.9	37	2.8	64	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. Grover.
Wickenburg, Arizona	.....	.....	.....	.....	48.5	9.2	52	calm	.....	.....	0	1 c	0	nw.	.....	0	0	clear	H. A. Kremp.
Williamsport, Pa	29.84	757.9	30.46	773.7	29	— 1.7	45	nw.	12	5.4	.....	0	1 k	.....	nw.	0	0	clear	B. F. Hough.
Wilmington, N. Carolina	30.24	768.1	30.30	769.6	53	11.7	66	ne.	1	0.4	.....	2 c	sk.	calm	calm	0	0	clear	S. A. Haney.
Winnemucca, Nevada	25.76	654.3	30.26	768.6	39	3.9	71	ne.	11	4.9	.....	0	0	.....	.....	0	0	clear	J. R. Williams.
Yankton, Dakota	28.74	730.0	30.13	765.3	40	4.4	65	nw.	12	5.4	.....	0	0	.....	.....	0	0	clear	J. H. Atfield.
Yuma, Arizona	29.83	757.7	29.98	761.5	58.6	14.8	65	s.	2	0.9	.....	0	1 s	.....	nw.	0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.05	560.1	.....	.....	52.0	11.1	84	nw.	6	2.7	.....	5 k	2 ks; s	.....	.....	0	0	fair	Joaquin Gomez.
Bridgetown, Barbados, W.I.	30.08	764.0	30.09	764.3	80	26.7	82	e.	.....	.....	.....	5 k	5 ks	e.	e.	0	0	fair	J. A. Racker.
Buenaventura, U. S. C.	30.04	763.0	30.06	763.5	76	24.4	86	calm	0	0	.....	.....	10 ks	.....	s.	0	0	cloudy	J. I. Plume.
Guadeloupe, W. I.	29.98	761.5	30.00	762.0	76	24.4	90	ne.	.....	.....	.....	5 k	2 ks	.....	.....	0.551	14.0	.....	B. Bigar.
Havana, Cuba, W. I.	30.08	764.0	30.13	765.3	77	25.0	85	calm	0	0	.....	8 cs	2 ks	calm	calm	0	0	cloudy	A. Van Caneghem.
Kingston, Jamaica, W. I.	30.08	764.0	30.09	764.3	71.8	22.1	75	n.	1	0.4	.....	0	0	.....	.....	0	0	.....	Robert Johnston.
Navassa	30.12	765.0	30.20	767.1	76	24.4	76	ne.	0	0	.....	2 ck	5 s	e	ne.	0	0	.....	F. M. Everett.
Paramaribo, S. A.	30.03	762.7	30.03	762.7	78	25.6	86	e.	.....	.....	2	4 ck	3 k	e.	.....	0	0	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.56	750.8	30.02	762.5	76	24.4	81	n.	.....	.....	1	0	8 ks	.....	calm	0	0	cloudy	Miss Flora A. Nichols.
Rivas	.....	.....	.....	.....	.....	.....	90	ne.	.....	.....	3	0	1 k	.....	.....	0	0	clear	Robert Mason.
Santiago de Cuba, W. I.	30.05	763.3	30.08	764.0	73	22.8	81	calm	0	0	.....	1 ck	0	.....	.....	0	0	fair	
York Factory, B. A.	30.14	765.5	30.19	766.8	—21.0	—29.4	.....	s.	13	5.8	.....	0	1 s	.....	s.	0	0	fair	W. Wood.

STATIONS AND VESSELS.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
British Naval.																		
H. M. S. Agincourt, N. 37° 59′, E. 2° 49′	29.86	758.4	61	16.1	94	ssw.			2		3	ssw.				2	wsw.	d. clouds.
H. M. S. Alert, S. 5° 40′ E. 53° 14′	29.82	757.4	87.8	31.0	70	n.			1		3							d. clouds.
H. M. S. Alexandra, Naples, Italy	29.79	756.7	62.5	16.9	78	ssw.			1–2		8							d. clouds.
H. M. S. Bacchante, Jaffa Roads, Egypt	29.88	758.9	70	21.1	71	nnw.			2		6	wsw.						d. clouds.
H. M. S. Boadicea, S. 34° 11′, E. 18° 20′	29.95	760.7	70.5	21.4	69	calm			0		0							blue sky.
H. M. S. Cleopatra, N. 12° 31′, E. 49° 04′	29.70	755.9	80	26.7	95	e.			2–3		2	e.				1	e.	d. clouds.
H. M. S. Comus, N 5° 07′ E. 126° 35′	29.95	760.7	79	26.1	100	ne.			3		10					3	ne.	showery.
H. M. S. Daring, N. 16° 03′ E. 119° 32′	29.93	760.2	80	26.7		nne.			3		2	e.						d. clouds.
H. M. S. Diamond, S. 35° 02′, E. 117° 50′	30.17	766.3	65	18.3	89	se.			2		3	wnw.						d. clouds.
H. M. S. Dido, N. 17° 00′, W. 61° 45′	30.08	764.0	77	25.0		ne.			1–3		5	ne.						hy. showers
H. M. S. Druid, N. 18° 11′, W. 76° 27′	30.13	765.3	73	22.8	95	calm			0		6	se.						d. clouds.
H. M. S. Eclipse, S 15° 43′, E. 46° 20′	29.85	758.2	84	28.9		wnw.			1–2		3							d clouds.
H. M. S. Espiegle, Freemantle, West Australia	30.07	763.8	71	21.7	90	sse.			2		7	ne.						d. clouds.
H. M. S. Euryalus, N. 12° 53′, E. 53° 12′	29.89	759.2	82	27.8	70	e.			1		0							blue sky.
H. M. S. Fawn, N. 15° 04′ E. 42° 14′	29.77	756.1	79	26.1	76	w.			1		1							blue sky.
H. M. S. Flying Fish, N. 34° 41′, E. 135° 12′	30.19	766.8	54	12.2	100	ne.			1		9	ne.				1	ne.	heavy rain.
H. M. S. Gannet, S. 33° 01′, W. 71° 37′	30.08	764.0	62	16.7	83	calm			0		7							d. clouds.
H. M. S. Garnet, Montevideo, Uruguay	29.82	757.4	71	21.7	75	n.			5		9							d. clouds.
H. M. S. Griffon, N. 25° 20′ W. 76° 20′	30.16	766.1	75	23.9	85	var.			1		9					4	ne.	d. clouds.
H. M. S. Inconstant, S. 25° 00′, E. 59° 00′	30.06	763.5	76	24.4	100	ese.			4		6	se.				3	ese.	d. clouds.
H. M. S. Iris, N. 33° 50′, E. 25° 07′	29.81	757.2	67	19.4	79	nw.			1		10					2	wsw.	misty.
H. M. S. Iron Duke, N. 22° 16′ E. 114° 10′	29.96	761.0	67	19.4	90	calm			0		0							blue sky.
H. M. S. Lark, S. 12° 26′, E. 162° 05′	29.85	758.2	83.3	28.5		e.			4		10					4	e.	showery.
H. M. S. Liffey, Coquimbo, Chili	30.11	764.8	61	16.1		calm			0		4							d. clouds.
H. M. S. Magpie, N. 32° 44′, E. 129° 51′	29.97	761.2	62.6	17.0	88	s			2–4		10							raining.
H. M. S. Orontes, N. 34° 36′, E. 22° 53′	29.80	756.9	63.5	17.5	96	ssw.			3		10					4	sw.	drizzling.
H. M. S. Rambler, St. Paul de Loando, Benguela	29.81	757.2	79	26.1		wnw.			2		9	calm						d. clouds.
H. M. S. Ready, Muscat, Arabia	29.92	760.0	72.1	22.3		calm			0		8							raining.
H. M. S. Rocket, Vancouver Id., B. C.	29.93	760.2	40	4.4	?	ese.			1		4							d. clouds.
H. M. S. Sea Gull, S. 4° 37′, E. 55° 27′	30.23	767.8	84	28.9	91	calm			0		4	wsw.						showery.
H. M. S. Thalia, S. 35° 19′, W. 5° 18′	30.19	766.8	66	18.9		ene.			1		8					3	nw.	d clouds.
H. M. S. Triumph, Valparaiso, Chili	30.11	764.8	63	17.2	88	calm			0		2	calm						d. clouds.
Portuguese Naval.																		
Quanza, St. Vicent, Cape Verd Islands	30.05	763.3	73.8	23.2	81	ne.			4		6		sw.			3	ne.	d. clouds.
Rio Lima, Porto Praya, Cape Verd Islands	30.01	762.2	76.3	24.6	79	ne.			2		7		ne.	10 mi	nutes	2		raining.
Tamega, Macao, China	30.00	761.9	73.1	22.9	80	calm			0		0							blue sky.
Swedish Naval.																		
Balder, N. 36° 47′ W. 73° 50′	30.30	769.6	44.2	6.8	88	ene.			2		1							d. clouds.
United States Naval.																		
Navy Yard. Pensacola, Fla	30.25	768.3	62	16.7	61	ne.	5	2.2			0			0	0			clear.
N. Yard, Portsmouth, N. H.	30.27	768.8	24	— 4.4	?	nw.	16	7.2			2		nw.	0	0			clear.
Naval Hospital, Yokohama, Japan	30.16	766.1	57.5	14.2	69	sw.			1		10		w.	sll't	sll't			raining.
Adams, S. 0° 13′, W. 80° 53′	29.88	758.9	76	24.4	91	nw.			2		8					sm'h		cloudy.
Alaska, Mollendo, Peru	30.01	762.2	65	18.3	89	e.			1		8		ese.	0	0	long		cloudy.
Alert, N. 27° 03′, E. 122° 37′*	29.87	758.7	69	20.6	90	se.			1		8		nw.	0	0	long	sse.	cloudy.
Alliance, Aspinwall, Panama	29.98	761.5	78	25.6	73	n.			3		5			0	0	sm'h		fair.
Ashuelot, Nagasaki, Japan	29.98	761.5	63	17.2	94	se.			2		10		calm					raining.
Brooklyn, Montevideo, Uruguay	29.80	756.9	71	21.7	80	n.	7	3.1			8		n.	0	0	light	w.	fair.
Colorado, New York, N. Y.	30.37	771.4	33	0.6	60	nw.	24	10.7			2		nw.	0	0			clear.
Enterprise, N. 12° 31′ W. 68° 42′*	30.02	762.5	77	25.0	86	e.			3–4		2					sm'h		clear.
Essex, Bassa Liberia, Africa	29.89	759.2	81	27.2	83	w.			2		5		w.			long	w.	fair.
Franklin, Norfolk, Va	30.35	770.9	48	8.9	78	ene.	3.6	1.6			0			0	0			clear.
Galena, N. 36° 40′ E. 13° 14′	29.82	757.4	59	15.0	100	calm			0		10					sm'h		cloudy.
Independence, Mare Island, Cal.	29.96	761.0	53	11.7	86	wsw.			4		10		wsw.	0	0			cloudy.
Kearsarge, S. 17° 20′, W. 71° 25′	30.07	763.8	78	25.6	78	ene.			5		5		e.			mod	e.	fair.
Lackawana, Callao, Peru†	30.10	764.5	66	18.9	100	calm			0		10							foggy.
Lancaster, Messina, Sicily*	29.77	756.1	62	16.7	83	ene.			1–2		8		ne.			sm'h		fal.
Marion, S. 33° 54′, E. 18° 24′*	29.96	761.0	63	17.2	100	w.			1		8		calm			sm'h		cloudy.
Michigan, Erie, Pa	30.53	775.4	31	— 0.6	100	nw.			4		10		nw.					cloudy.
Minnesota, Newport, R. I.	30.29	769.4	35	1.7	45	nw.					0							clear.
Monocacy, Kobe, Japan	30.25	768.3	53	11.7	93	ne.	15	6.7			10		calm					rainy.
New Hampshire, Newport, R. I.	30.13	765.3	35	1.7	35	nw.			3		2					mod.	nw.	fair.
Nipsic, Barcelona, Spain	29.90	759.4	58	14.4	76	se.			2		8					sm'h		cloudy.
Onward, Callao, Peru†	30.12	765.0	64	17.8	100	calm			0		10		n.			long	w.	foggy.
Palos, Kobe, Japan	30.24	768.1	53	11.7	86	ene.			3		10		se.					overcast.
Passaic, Washington, D. C.	30.07	763.8	48	8.9	100	s.			3		2							clear.
Pensacola, Callao, Peru	30.03	762.7	65	18.3	89	calm	0	0			10			0	0	sm'h		foggy.
Portsmouth, Norfolk, Va	30.34	770.6	46	7.8	100	ene.			2		0					sm'h		clear.
Powhatan, N. 10° 40′ W. 66° 50′	30.02	762.5	85	29.4	60	wsw.			2		5		sw.			sm'h		fair.
Quinnebaug, Naples, Italy	29.75	755.6	64	17.8	43	sw.			3		8		wsw.			sm'h		fair.
Ranger, Acapulco, Mexico*	29.94	760.5	79	26.1	78	calm			0		2		calm	0	0	sm'h		clear.
Richmond, Kobe, Japan*	30.16	766.1	55	12.8	87	ene.			1		10			0.18	4.6			rainy.
Shenandoah, Curacoa, W. I*	30.10	764.5	77	25.0	82	ene.			1		5?		ene.			sm'h		cloudy.?
St. Louis, League Island, Pa	30.64	778.2	35	1.7	70	n.					0			0	0			clear.
Swatara, Kobe, Japan*	30.04	763.0	55	12.8	80	ne.	9	4.0	2		10		ne.			sm'h		heavy rain.
Tennessee, N. 25° 16′ W. 84° 08′*	30.12	765.0	74	23.3	100	ene.	20	8.9			8			0.23	5.8			fair.
Vandalia, Key West, Florida†	30.42	772.7	62	16.7	66	ene.			1		0							clear.
Wabash, Boston, Mass.	30.27	768.8	30	— 1.1		nw.	12	5.4			5		nw.	0.14	3.6			fair.
Wachusetts, Sitka, Alaska	29.26	743.2	28	— 2.2		calm			0		10		calm			sm'h		cloudy.
Wyoming, Port Royal, S. C.	30.28	769.1	60	15.6	100	ne.	9	4.0			0			0	0			clear.
Yantic, N. 23° 19′, W. 88° 12′*	30.07	763.8	77	25.0	91	e.			2		5		e.			mod.	e.	fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.	Character.	Direction from.	
ALLAN LINE.																		
S. S. Circassian, N. 51° 29′, W. 13° 30′	29.77	756.1	47	8.3	77	w.			6		10		w.	3 h'r	3 h'r	4	w.	raining.
S. S. Nova Scotian, N. 42° 49′ W. 49° 01′	29.96	761.0	39	3.9		ssw.			3		10		ssw.			mod.	wsw.	foggy.
S. S. Peruvian, Portland, Me*	30.15	765.8	30	—1.1		nw.			4		3		wnw.	0	0			clear.
S. S. Prussian, Galway, Ireland*	29.40	746.7	47	8.3		e.			3		7?		ese.	4 h'r	4 h'r			clear.?
S. S. Scandinavian, N. 43° 27′, W. 58° 03′*	29.82	757.4	35	1.7		wnw			5		7		wnw.	2 h'r	2 h'r	mod.	ese.	d. clouds.
S. S. Waldensian, N. 47° 45′, W. 33° 56′*	30.34	770.6	48	8.9		wnw.			4		2		se.	5 h'r	5 h'r	light	w.	clear.
AMERICAN STEAMSHIP COMPANY.																		
S. S. British Crown, N. 50° 50′, W. 13° 25′†	29.63	752.6	46	7.8		wnw.			7		9		wsw.	3 h'r	3 h'r	r'gh	wsw.	raining.
S. S. Illinois, N. 40° 06′, W. 51° 30′	30.02	762.5	58	14.4	94	w.			4		2		w.			mod.	nw	very fine.
S. S. Indiana, Liverpool, Eng...†	29.62	752.6	48	8.9	70	s.			1		8		ssw.	0	0			cloudy.
S. S. Ohio, Philadelphia, Penn			37	2.8	90	nnw.			3		9?		nnw.					clear.
S. S. Pennsylvania, N. 41° 24′, W. 43° 10′†	30.03	762.7	62	16.7	77	wsw.			3		2		sw.			sm'h		d. clouds.
ANCHOR LINE.																		
S. S. Assyria, N. 41° 35′, W. 48° 41′ *†	30.17	766.3	49	9.4		w.			6		8		w.	2 h'r	2 h'r	mod.	sw.	clearing.
S. S. Devonia, N. 54° 18′, W. 15° 40′†	29.53	750.0	50	10.0		ne.			5		6?		ne.			cross	ne.	clear.?
S. S. Galatia, N. 48° 18′, W. 31° 23′†	30.29	769.4				ene.			3		7		ne.	0	0	long	nnw.	cloudy.
ATLAS LINE.																		
S. S. Atlas, N. 13° 09′, W. 77° 40′†	30.14	765.5	80	26.7	82	nne.			2		2		nne.	0	0	sm'h		fine.
S. S. Arden, N. 11° 10′, W. 71° 45′						ne.			1		2		ne.			sm'h	ene.	fine.
S. S. Athos, Mayagues, Porto Rico, W. I.	29.84	757.9				e.			1		2		e.	0	0	sm'h		clear.
BRITISH METEOROLOGICAL OFFICE.																		
Bk. Arran, N. 5° 47′ W. 24° 52′	29.94	760.5	79.5	26.4	70	nne.			3		10							d. clouds.
S. Auckland, N. 47° 44′, W. 14° 02′	29.75	755.6	50	10.0		wnw.			6		6							squally.
S. Baroda, S. 8° 58′, E. 82° 29′	29.79	756.7	83.7	28.7	79	wnw.			2		8							d. clouds.
British Merchant, N. 4° 18′, E. 88° 43′	29.82	757.4	84.5	29.2	87	ese.			3		2							showery.
Caldew, N. 38° 57′, W. 36° 40′	30.28	769.1	58	14.4		sw.			2		7							d. clouds.
S. S. Cipero, N. 43° 50′, W. 15° 35′	29.99	761.7	55.1	12.8	71	w.			4		3					3	nw.	d. clouds.
Bk. Commewyne, N. 40° 50′, W. 40° 50′	30.12	765.0	60.5	15.8	65	ssw.			5		10							overcast.
Brig Hermine, S. 0° 23′, W. 26° 13′	29.93	760.2	79.2	26.2	82	calm			0		5							d. clouds.
Hope, Aracaju, Brazil, S. A.	29.97	761.2	82.3	27.9	79	ese.			3		3							showery.
BRISTOL CITY LINE.																		
S. S. Brooklyn City, N. 46° 30′, W. 33° 00′*†	30.25	768.3	54	12.2		ene.			6		10		e.			long	nw.	drizzling.
CROMWELL LINE.																		
S. S. New Orleans, N. 24° 34′, W. 82° 32*†	30.15	765.8	74	23.3		e.					2		e.			sm'h		smoky.
CUNARD LINE.																		
S. S. Gallia, N. 41° 18′ W. 61° 01′	30.01	762.2	44	6.7	100	nnw.			6		0			0	0	mod.	nw.	fine.
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. France, N. 40° 25′, W. 64° 52′†	30.07	763.7	41.0	5.0		nw.			5	ck	0	nnw.		0	0	r'gh	nw.	
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Bohemia, N. 44° 24′, W. 36° 15′*†	30.15	765.8				sw.			2		8		sw.	light	light	mod.	ne.	misty.
S. S. Lessing, N. 44° 59′, W. 36° 02′.*	30.07	763.8	56	13.3		ssw.			6		10		wsw.	2 h'r	2 h'r	sm'h	w.	cloudy.
S. S. Silesia, Hamburg, Germany*†	29.68	753.9	55.4	13.0		sse.			3		9		sse.	5 h'r	5 h'r			raining.
S. S. Wieland, N. 40° 15′, W. 69° 55′	30.30	769.6	47	8.3		nw.			5		2		nw.	0	0	4	nw.	clear.
LEYLAND LINE.																		
S. S. Iberian, N. 51° 05′, W. 12° 40′						wsw.			3		8		sw.	7 h'r	7 h'r	mod.	wnw.	
MALLORY LINE.																		
S. S. Colorado, New York, N. Y†	30.40	772.1	35	1.7		n.			4		1		n.	0	0			clear.
MERCHANTS' EXPRESS LINE.																		
S. S. Hermod, N. 49° 47′, W. 60 05′*†	29.30	744.2	50.0	10.0		ssw.			4		8		w.	4 h'r	4 h'r	mod.	wsw.	showery.
NATIONAL LINE.																		
S. S. England, N. 46° 04′, W. 36° 34′*†	30.16	766.1				se.			5		10		s.	16 h'r	16 h'r	h'vy	n.	raining.
S. S. Erin, N. 44° 07′, W. 38° 46′	30.05	763.3	58	14.4		sse.			5		7		s.	0	0	long	nnw.	clearing.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Santiago, N. 27° 45′ W. 74° 00′†	30.17	766.3	69	20.6		nne.			2		1		ne.	0	0	sm'h		fine.
NEW YORK, HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, N. 23° 50′, W. 91° 15′*†	30.18	766.6	77	25.0		sse.			3		2		se.	0	0	sm'h	se.	clear.
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Alvena, Kingston, Jamaica, W. I*†	29.96	761.0	73	22.8		s.			1									cloudy.
S. S. Atlas, N. 10° 58′, W. 83° 44′*†	30.15	765.8	76	24.4		calm			0									overcast.
S. S. Lepanto, N. 49° 30′, W. 20° 06′*	29.82	757.4	41	5.0		nnw.			8								wnw.	squally.
S. S. New York, N 27° 53′, W. 87° 30′*†	30.20	767.1	72	22.2		ene.			3							sm'h		clear.
NORTH GERMAN LLOYD.																		
S. S. Hohenzollern, S. 21° 33′, W. 39° 56′*	30.06	763.5	79.2	26.2		e.			4		3		e.	rain	rain	3	e.	clear.
S. S Koln, N. 41° 52′, W. 47° 02′*	30.08	764.0	48.0	8.9	85	w.			6		10			2 h'r	2 h'r	high	sw.	hazy.
S. S. Kronprinz F. Wilhelm, N. 43° 12′, W. 45° 14′	29.87	758.7	45.5	7.5		nnw.			4—5		10			18 h'r	18 h'r	4	e.	dense fog.
S. S. Leipzig, N. 38° 47′, W. 70° 44′	30.32	770.1	41.2	5.1	78	nw.			4		0			4 h'r	4 h'r	sm'h		clear.
S. S. Main, N. 49° 28′, W. 20° 48′*	29.88	758.9	46.4	8.0		nnw.			5—6		4		nw.	0	0	high	nnw.	squally.
S. S Mosel, N. 47° 23′, W. 34° 15′	30.20	767.1	51.1	10.6		e.			4		10		ne.	0	0	long	nw.	cloudy.
S. S. Neckar, N. 41° 09′ W 60° 46′	30.01	762.2	41.0	5.0		wnw.			5		3		wnw.	0	0	r'gh	wnw.	fine.
S. S. Oder, Bremerhaven, Germany	29.92	760.0				w.			3		2		w.	0	0			fair.
S. S. Ohio, N. 37° 38′, W. 34° 01′	30.35	770.9				ssw.			3		4		ssw	0	0	sm'h	ssw.	fair.
S. S. Saller, N. 49° 06′, W. 12° 32′	29.63	752.6	49.1	9.5		wnw.			6		8		wnw.	3 h'r	3 h'r	r'gh	nw.	cloudy.
S. S. Strassburg, N. 51° 53′, E. 2° 39′	29.63	752.6	52.0	11.1	83	sw.			2		4		sw.	4 h'r	4 h'r	sm'h	sw.	hazy.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Belgic, N. 44° 03′. W. 166° 21′†	30.19	766.8	48	8.9	85	calm			0		5		ne.	sh'rs	shr's	mod.	ne.	fair.
S. S. Gaelic, N. 26° 34′, E. 123° 11′†	29.98	761.5	75	23.9	90	e.			2		1		ne.			sm'h	ene.	clear.
S. S. Oceanic, N. 35° 22′, E. 175° 53′*	30.01	762.2	58	14.4	88	wsw.			3		8		sw.			3	ne.	drizzling.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, New York, N. Y†	30.35	770.9				nw.			4		1		sw.	0	0			clear.
S. S. Seminole, N. 33° 00′, W. 78° 50′†	30.32	770.1	64	17.8	89	ne.			3		0			0	0	sm'h	ne.	clear.
OREGON IMPROVEMENT COMPANY.																		
S. S. Mississippi, N. 39° 24′, W. 124° 00′†	30.19	766.8	49	9.4	85	nw.			2		10		nw.			light	nw.	light fog.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Oregon, San Francisco, Cal†	30.11	764.8	52	11.1	93	sw.			1		10							threatening.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, N. 37° 06′, W. 122° 23′†	30.12	765.0	55	12.8	100	nw.			1		10		sw.			sm'h	w.	foggy.
S. S. Geo. W. Elder, N. 45° 45′. W. 124° 45′†	30.01	762.2	47	8.3		se.			6		6		se.	light	light			cloudy.
S. S. Idaho, N. 39° 20′ W. 123° 57′†	30.14	765.5	48	8.9	70	calm			0		3		s.			light	nw.	cloudy.
S. S. State of California, N. 42° 09′ W. 124° 45′†	30.13	765.3	45	7.2	?	calm			0		10			0	0	sm'h	nw.	foggy.
S. S. Victoria, N. 49° 10′, W. 122° 36′†	29.81	757.2	47	8.3	70	se.			2		2					sm'h		fair.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, Sydney, N. S. W	30.06	763.5	67	19.4	84	calm			0		0			0	0			clear.
S. S. City of New York, S. 25° —′, W. 175° 50′†	29.80	756.9	80	26.7	78	ssw.			6		9			rain	rain	h'vy	se.	cloudy.
S. S. City of Pekin, Panama, Panama..†	30.05	763.3	78	25.6	86	nw.			2					0	0	sm'h		clear
S. S. City of Sydney, S. 22° 43′, W. 174° 50′†	29.88	758.9	78	25.6	86	w			5		5		w.	0	0	long	nw.	fair.
S. S. Clyde, N. 14° 26′, W. 91° 46′†	30.01	762.2	80	26.7	87	ene.			3		8		ne.	½h'r	½h'r	light	sw.	cloudy.
S. S. South Carolina, Champericot	30.03	762.7	82	27.8	75	nnw.			1		10		ne.	0	0	mod.	sw.	cloudy.
QUEBEC STEAM SHIP COMPANY.																		
S. S. Muriel, N. 29° 04′, W. 66° 36′						ssw.			3		10			0	0	mod.	ese.	cloudy.
RED STAR LINE.																		
S. S. Rhynland, N. 45° 26′. W. 35° 30′	30.14	765.5	52	11.1	86	e.			2		10		e.	0.5	13.	long	nne.	rainy.
S. S. Switzerland, N. 39° 58′. W. 54° 42′†	30.03	762.7				ssw.			4		8		sw.	0	0	mod.	sw.	fair.
S. S. Waesland, N. 46° 22′ W. 30° 09′	30.23	767.8	50	10.0		e.			3		8		sw.	4 h'r	4 h'r	mod.	nw.	cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
ROTTERDAM LINE.																		
S. S. Schiedam, N. 49° 48′, W. 17° 25′*	29.63	752.6	50.4	10.2	95	wnw.			6		6		wnw.	5 h'r	5 h'r	hv'y	wnw.	cloudy.
S. S. W. A. Scholten, N. 43° 34′, W. 46° 45′*	29.78	756.4	53.2	11.8	90	wsw.			4		5		w.	10 h'r	10 h'r	sm'l		foggy
THINGVALLA LINE.																		
S. S. Thingvalla, Copenhagen, Denmark†	29.78	756.4	47.3	8.5		ese.			2		4		ese.	4 h'r	4 h'r			clear.
WARREN LINE.																		
S. S. Iowa, N. 45° 35′, W. 35° 34′*†	30.23	756.4	48	8.9		se.			3		10		w.	4 h'r	4 h'r	sm'h	n.	drizzling.
WHITE STAR LINE.																		
S. S. Adriatic, N. 40° 40′, W. 67° 54†*	30.20	767.1	36	2.2		nw.			6		2		wsw.	0	0	sm'h		d. clouds.
S. S. Celtic, N. 48° 11′ W. 31° 17′†	30.25	768.3	46	7.8	85	ne.			2		10		e.	0	0	long	nw.	cloudy.
WILSON LINE.																		
S. S. Otranto,, N. 44° 54′, W. 38° 25′†	30.14	765.5	56	13.3		ssw.			4		5		ssw.	0	0	long	wsw.	fair.
S. S. Romano, Hull, Eng*†	29.54	750.3	54	12.2		w.			1		0			0	0			clear.
S. S. Salerno, N. 50° 07 W. 4°05′†	29.65	753.1	57	13.9		ssw.			3		3		ssw.			sm'h		showery.
WINSOR LINE.																		
S. S. Catherine Whiting, Providence, R. I.†	30.37	771 4				nw.			3									
MISCELLANEOUS.																		
Sch. Addie Fuller, Cedar Keys, Florida†	30.29	769.4	63	17.2	89	ene.			2	7 cs	0			0	0			fair.
Bk. Adelaide, Rio de Janeiro, Brazil*†	30.15	765.8	78	25.6		nw.								0	0			clear.
Bk. Aureola, N. 35° 17′, W. 45° 57′*†	30.48	774.2	70	21.1		ssw.			4		7		sw.	0	0	mod.	wnw.	clearing.
Schr. Annie M. Smull, S. 36° 56′, W. 11° 15′*†	30.20	767 1	62.	16.7		sse.							sse.	0	0		sw.	clear.
Bk. Bergenseren, N. 35° 54′ W. 24° 06′†	30.32	770.1				calm			0				nw.	0	0		e.	fair.
Bk. Celestina, S. 3° 44′, W. 29° 30′*†	29.84	757.9				ene.			2		10		ne.	hv'y	hv'y	long	sse.	cloudy.
Bk. Champion, N. 38° 40′, W. 76° 27′†	30.01	762.2				w.			3		5		n.	2 h'r	2 h'r	sm'h	sw.	
Bk. E. L. Pettingill, S. 1° 05′, W. 112° 49′†	30.10	764.5				ene.			2		1		ene.	0	0	sm'h		
S. Enoch Train, Off Isle of Wight*	29.56	750.8				w.			4		3		nw.	0	0			clear.
Ship Exporter, N. 36° 20′, W. 45° 00′*†	30.40	772.1				sw.			7				sw.	0	0	hv'y	sw.	cloudy.
Ship Festina Lente, N. 58° 00′, W. 17° 10′*	29.82	757.4	44	6.7		e.			5		10		ene.	0	0	h'vy	w.	cloudy.
U.S.F.C.S.S.Fish Hawk, Washington, D. C.†	30.47	773.9	45	7.2	61	n.			3		1		n.	0	0			clear.
Bk Freya, Baltimore, Md			40	4.4		nw.			2		2		nw.	0	0			fair.
S. Grecian, S. 19° 06′ W. 33° 20′*†	30.05	763.3	79	26.1		e.			4		0			sh'rs	shr's	mod	s.	fine.
Bk. Geo. Booth, Cape Good Hope Africa*†	29.90	759.4				w.			1					0	0			clear.
Bk. Granville, S. 34° 46′, W. 6° 43′*†	30.24	768.1				s.			1				ssw.	0	0	mod.	nw.	clear.
S. Hedwig, N. 58° 09′, W. 15° 23′	29.80	756.9	46.8	8.2	79	ne.			6		5		ne.	1 h'r	1 h'r	3–4	wnw.	fine.
Schr. Henry Denison, N. 18° 14′, W. 76° 26′†	30.06	763.5				nne.			2		3		ne.	0	0	mod.	ene.	fair.
Bk. Johanne Auguste, S. 0° 50′, E. 90° 38′*†	29.70	754.4				se.			1		2		e.	0	0	sm'h		fair.
Bg. John Wesley, Sagua La Grande, Cuba, W. I.†	30.01	762.2	77	25.0		ene.			3		6			5 h'r	5 h'r			raining.
Bkt. Josephine, As inwall, Panama*†	30.13	765.3	81	27.2	70	ne.			4		0			0	0			clear.
Bk. Liberia, N. 35° 09′, W. 45° 24′*	30.20	767.1				sw.			5		7			0	0	high	nw.	fine.
Bg. Medina, N. 34° 32′, W. 73° 55′†	30.27	768.8				ene.			4		2		ne.			small	ne.	clear.
S. S. Nebo, N. 3° 09′, W. 38° 38′*†	29.86	758.4				nne.			1		8		nne.	0	0	sm'h		cloudy.
Bk. Peppina, N. 36° 59′, W. 9° 11′†	30.04	763.0	60	15.6	71	n.			6		5?		se.			r'gh	n.	cloudy?.
Bk Pilgrim, S. 44° 55′, E. 140° 00′*†	29.70	754.4				w.			3		5		w.	0	0	high	w.	fair.
Bg. Potomac, N. 21° 31′, W. 61° 06′*†	30.05	763.3				e.			3				e.			mod.		fine.
Bkt. Spotless, N. 22° 11′, W. 36° 27′*†	30.10	764.5				ene.							ne.			mod.	n.	clear.
Bg. Wauburn. Pernambuco, Brazil*†	30.00	762.0				e.			4		3		e.			sm'h		
S. Wm. Woodbury, N. 59° 52′, W. 8° 55′*†	29.50	749.3	42	5.6	83	nne.			7				n.			hv'y	n.	cloudy.



Data, as appearing in the International Bulletin of similar date.

Isobars in *black* exhibit atmospheric pressure at sea-level, and are charted from data as reported by the several observers.

Isotherms in *red* exhibit temperature of air, similarly charted.

Broken or dotted lines indicate that the lines so broken are doubtful.

Arrows, when charted, fly with the wind and exhibit wind-direction and force.

PUBLISHED BY ORDER OF THE SECRETARY OF WAR.

W. B. Hazen

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

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SUMMARY AND REVIEW

OF

INTERNATIONAL METEOROLOGICAL OBSERVATIONS,

MARCH, 1882.

STATIONS.	Latitude.	Longitude.	Local Time.	Altitude of Barometer above sea.		Result of Simultaneous Observations for March, 1882.																		Average Cloudiness.	Total Precipitation.	
						Mean Barometer.				Mean Temperature.		Mean Rel. Humidity.	Wind.													
						Actual.		Reduced.					Directions.									Total Movement.				
				Feet.	Met'rs	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.		N	NW	W	SW	S	SE	E	NE	C	Miles	Kil.	0–10	Inch.	Mill.
ALGERIAN.	° ′	° ′																								
Nemours	N. 35 06	W. 1 50	0.00 m.	13	4	.....	.....	30.18	766.6	64.0	17.8	82.0	.....	4	17	5	.....	.....	.....	5	.....	.....	.....	2	1.00	25.5
Algiers	N. 36 47	E. 3 04	0.20 p.m.	72	22	.....	.....	30.16	766.1	60.6	15.9	72.1	7	4	11	2	.....	.....	.....	7	.....	.....	.....	4	5.18	131.5
La Calle	N. 36 54	E. 8 26	0.42 p.m.	36	11	.....	.....	30.11	764.7	63.3	17.4	79.0	6	12	4	3	1	1	3	1	.....	.....	.....	4	8.13	206.5
Tunis	N. 36 42	E. 10 13	0.49 p.m.	46	14	.....	.....	30.07	763.8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Sfax	N. 34 44	E. 10 40	0.51 p.m.	?	?	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Saida	N. 34 51	E. 0 10	0.09 p.m.	2844	867	.....	.....	30.21	767.3	58.3	14.6	54.0	16	9	1	1	1	.....	2	1	.....	.....	.....	2	1.11	28.3
Tebessa	N. 35 24	E. 8 06	0.40 p.m.	2890	881	.....	.....	30.16	766.0	54.5	12.5	53.8	3	12	4	7	1	3	1	.....	.....	.....	.....	3	1.77	45.0
Geriville	N. 33 45	E. 1 10	0.13 p.m.	4285	1306	.....	.....	.....	.....	54.0	12.2	30.9	10	6	3	8	2	.....	1	1	.....	.....	.....	4	0.50	12.6
Laghouat	N. 33 48	E. 2 53	0.20 p.m.	2559	780	.....	.....	30.26	768.6	59.2	15.1	50.3	3	2	7	3	2	8	6	.....	.....	.....	.....	1	0.16	4.0
Biskra	N. 34 51	E. 5 41	0.31 p.m.	410	125	.....	.....	30.19	766.7	68.9	20.5	34.0	9	8	1	6	4	3	.....	.....	.....	.....	.....	4	0.24	6.2
AUSTRALIAN.																										
Melbourne	S. 37 50	E. 144 58	9.47 p.m.	91	28	29.90	759.4	29.99	761.7	63.1	17.3	71	3	.....	4	2	9	9	2	2	.....	.....	.....	4	0.94	23.9
AUSTRO-HUNGARIAN.																										
Agram	N. 45 48	E. 15 53	1.12 p.m.	536	163	29.51	749.5	30.06	763.4	57.4	14.1	50.8	.....	.....	.....	8	4	11	4	3	1	.....	.....	4	2.15	54.5
Cracow	N. 50 04	E. 20 00	1.28 p.m.	722	220	29.24	742.6	30.00	762.1	52.0	11.1	57.3	1	1	11	8	4	.....	5	1	.....	.....	.....	6	1.13	28.6
Eperies	N. 48 58	E. 21 15	1.33 p.m.	820	250	29.12	739.6	29.99	761.7	45.0	7.2	72.0	2	5	.....	.....	12	4	.....	.....	8	.....	.....	6	1.87	47.6
Gratz	N. 47 04	E. 15 28	1.10 p.m.	1171	357	28.79	731.3	30.04	763.0	54.7	12.6	57.4	1	2	3	4	12	3	2	3	1	.....	.....	3	1.73	44.0
Hermannstadt	N. 45 47	E. 24 13	1.45 p.m.	1352	412	28.59	726.1	30.00	761.9	57.0	13.9	48	3	14	1	1	5	7	.....	.....	.....	.....	.....	4	0.01	0.3
Kremsmünster	N. 48 03	E. 14 08	1.04 p.m.	1260	384	28.71	729.3	30.07	763.7	49.1	9.5	67.5	.....	5	12	1	1	.....	3	5	4	.....	.....	6	1.18	29.9
Lemberg	N. 49 50	E. 24 00	1.44 p.m.	978	298	28.97	735.9	29.97	761.1	48.9	9.4	63.6	.....	16	1	5	4	2	.....	3	.....	.....	.....	7	2 70	68.5
Pola	N. 44 52	E. 13 51	1.04 p.m.	105	32	29.93	760.3	30.05	763.2	57.7	14.3	69.3	1	1	8	1	1	9	6	4	.....	.....	.....	5	2.72	69.0
Szathmar	N. 47 46	E. 22 53	1.39 p.m.	430	131	29.56	750.7	30.02	762.5	54.7	12.6	60	1	8	3	8	4	4	3	.....	.....	.....	.....	6	1.98	50.2
Szegedin	N. 46 15	E. 20 10	1.29 p.m.	256	78	29.74[a]	755.4[a]	30.02[a]	762.6[a]	58.1	14.5	56.4[b]	1	5	4	5	8	4	.....	1	3	.....	.....	5[a]	1.80	45.8
Trieste	N. 45 39	E. 13 46	1.04 p.m.	85	26	29.96	760.9	30.06	763.5	57.7	14.3	57.6	.....	.....	.....	3	.....	1	4	10	13	.....	.....	4	3.81	96.7
Vienna	N. 48 12	E. 16 22	1.14 p.m.	663	202	29.22	742.3	29.94	760.4	55.4	13.0	49.0	1	5	13	.....	1	7	1	1	2	.....	.....	4	0.38	9.6
BRITISH.																										
Aberdeen	N. 57 10	W. 2 06	0.00 m.	89	27	29.60	751.8	29.70	754.4	47.2	8.4	64.6	2	1	5	11	8	1	3	.....	.....	.....	.....	6	1.62	41.1
Armagh	N. 54 21	W. 6 39	11.42 a.m.	207	63	29.64	752.8	29.89	759.2	47.9	8.3	87.5	1	4	3	16	4	.....	3	.....	.....	.....	.....	7	.....	.....
Bidston	N. 53 24	W. 3 04	11.56 a.m.	197	60	.....	.....	29.92	760.0	49.1	9.5	75.2	.....	1	13	15	.....	.....	1	1	.....	.....	.....	8	.....	.....
Bolton	N. 53 35	W. 2 28	11.58 a.m.	500	152	29.38	746.2	29.91	759.7	47.0	8.3	76.3	2	2	5	14	6	1	1	.....	.....	.....	.....	9	.....	.....
Bradford *d*	N. 53 48	W. 1 47	0.01 p.m.	366	111	29.48	748.8	29.88	758.9	47.9	8.8	75.5	.....	2	8	16	.....	1	.....	.....	.....	.....	.....	6	2.88	73.2
Bridgetown	N. 13 04	W. 59 37	8.10 a.m.	28	9	29.99	761.7	30.02	762.5	81.1	27.3	66.5	.....	.....	.....	.....	.....	.....	.....	31	.....	.....	.....	5	.....	.....
Cardington	N. 52 08	W. 0 27	0.06 p.m.	109	33	.....	.....	29.97	761.2	52.4	11.3	66.9	2	4	16	8	1	.....	.....	.....	.....	.....	.....	6	.....	.....
Chatham	N. 51 25	E. 0 33	0.10 p.m.	120	37	29.90	759.4	30.03	762.7	52.1	11.2	71.4	1	3	4	13	1	1	.....	1	7	.....	.....	6	.....	.....
Falmouth	N. 50 09	W. 5 04	11.48 a.m.	211	64	29.87	758.7	30.10	764.5	50.3	10.2	75.3	.....	5	6	11	2	4	2	1	.....	.....	.....	7	.....	.....
Fort Napier	S. 30 00	E. 31 00	2.12 p.m.	2200	671	27.65	702.3	29.87	758.7	78.9	26.1	52.7	.....	.....	.....	.....	3	11	6	3	8	.....	.....	2	.....	.....
Free Town	N. 8 30	W. 13 14	11.15 a.m.	224	68	29.62	752.3	29.85	758.2	87.7	30.3	66.8	1	12	17	1	.....	.....	.....	.....	.....	.....	.....	3	.....	.....
Galway	N. 53 15	W. 9 03	11.32 a.m.	32	10	.....	.....	29.91[d]	759.7[d]	.....	.....	.....	1	2	7	18	2	.....	1	.....	.....	.....	.....	8	1.92[p]	48.8[p]
Gibraltar	N. 36 09	W. 5 21	11.47 a.m.	50	15	30.18	766.6	30.24	768.1	64.0	17.8	77.2	.....	.....	.....	6	3	1	3	15	3	.....	.....	4	.....	.....
Glasgow	N. 55 53	W. 4 17	11.51 a.m.	184	56	29.58	751.3	29.78	756.4	46.5	8.1	73.5	1	1	6	12	7	.....	.....	.....	4	.....	.....	5	.....	.....
Greenwich	N. 51 29	0 00	0.08 p.m.	159	48	29.86	758.4	30.03	762.7	51.7	10.9	69.1	3	2	4	18	2	.....	1	1	.....	.....	.....	6	.....	.....
Guernsey	N. 49 27	W. 2 41	11.58 a.m.	275	84	29.82	757.4	30.12	765.0	50.5	10.3	82.9	5	6	9	4	2	1	1	3	.....	.....	.....	6	.....	.....
Kew	N. 51 28	W. 0 19	0.07 p.m.	34	10	30.00	762.0	30.04	763.0	50.9	10.4	61.6	3	2	7	15	3	1	.....	.....	.....	.....	.....	6	.....	.....
Leicester	N. 52 39	W. 1 08	0.04 p.m.	245	75	29.70	754 4	29.95	760.7	50.6	10.3	68.7	.....	6	2	22	.....	1	.....	.....	.....	.....	.....	7	.....	.....
Malta	N. 36 00	E. 14 30	1.06 p.m.	70	21	29.95	760.7	30.02	762.5	63.4	17.4	71.9	2	5	6	5	1	3	3	6	.....	.....	.....	4	.....	.....
Nassau	N. 25 04	W. 77 22	6.58 a.m.	44	13	30.20	767.1	30.24	768.1	74.0	23.3	72.6	.....	2	.....	3	2	7	4	13	.....	.....	.....	5	.....	.....
Oscott	N. 52 28	W. 1 55	0.00 m.	483	147	29.44	747.8	29.97	761.2	49.4	9.7	70.0	1	2	8	7	11	1	1	.....	.....	.....	.....	7	.....	.....
Oxford	N. 51 46	W. 1 17	0.03 p.m.	210	64	29.78	756.4	30.01	762.2	50.6	10.3	66.0	.....	1	4	19	4	1	1	.....	1	.....	.....	6	.....	.....
Plymouth	N. 50 22	W. 4 10	11.51 a.m.	69	21	30.01	762.2	30.08	764.0	51.5	10.8	77.0	1	5	1	15	5	2	1	1	.....	.....	.....	7	.....	.....
Sandwick Manse	N. 59 05	W. 3 20	11.54 a.m.	94	29	.....	.....	29.60	751.8	42.7	5.9	82.1	1	4	6	9	5	2	3	1	.....	.....	.....	7	.....	.....
Scutari Comet'y	N. 41 00	E. 29 03	2.04 p.m.	60	18	29.99	761.7	30.06	763.5	55.5	13.1	57.6	6	.....	.....	.....	1	9	1	.....	.....	.....	.....	4	.....	.....
Sheffield	N. 53 23	W. 1 28	0.02 p.m.	260	79	29.64	752.8	29.91	759.7	51.8	11.0	72.0	1	2	3	21	.....	.....	2	2	.....	.....	.....	6	1.07	27.2
Silloth Rectory	N. 54 52	W. 3 22	11.54 a.m.	28	9	29.81	757.2	29.84	757.9	46.7	8.2	81.5	1	3	0	11	5	.....	4	1	.....	.....	.....	7	3.10	78.7
Stonyhurst	N. 53 51	W. 2 28	11.58 a.m.	361	110	.....	.....	29.92	760.0	46.6	8.1	73.8[a]	1	1	14	12	.....	2	.....	1	.....	.....	.....	8	.....	.....
Stratfield Turgiss	N. 51 17	W. 0 53	0.04 p.m.	197	60	29.82	757.4	30.05	763.3	52.5	11.4	66.5	2	5	9	11	1	1	2	.....	.....	.....	.....	5	.....	.....
Truro	N. 50 16	W. 5 04	11.53 a.m.	43	13	30.04	763.0	30.08	764.0	55.5	13.1	70.5	1	10	5	8	6	.....	.....	1	.....	.....	.....	6	.....	.....
Valencia	N. 51 55	W. 10 18	11.27 a.m.	23	7	29.98	761.5	30.01	762.2	50.1	10.1	77.3	1	4	0	12	6	2	.....	.....	.....	.....	.....	8	.....	.....
CANADIAN.																										
Bathurst *d*	N. 47 39	W. 65 43	7.45 a.m.	35	11	.....	.....	.....	.....	21.7	— 5.7	.....	.....	8	.....	1	6	.....	1	2	9	.....	.....	6	2.62	66.5
Charlottetown	N. 46 14	W. 63 10	7.55 a.m.	38	12	29.95	760.7	29.99	761.7	20.3	— 6.5	88.9[a]	7	4	3	1	5	2	2	4	3	6902	11204	7	4.37	111.0
Chatham	N. 47 03	W. 65 29	7.45 a.m.	56	17	29.96	761.0	30.03	762.7	18.0	— 7.8	90.6	4	6	2	6	3	1	1	5	3	3988	6418	6	7.14	181.4
Cornwall	N. 45 01	W. 74 43	7.09 a.m.	175	53	29.83	757.7	30.03	762.7	21.1	— 6.1	68.7	3	8	3	4	1	.....	9	3	.....	.....	.....	6	2.74	69.6
Dalhousie	N. 48 04	W. 66 21	7.32 a.m.	150	46	29.82	757.4	30.00	762.0	17.2	— 8.2	.....	.....	.....	17	.....	.....	.....	5	1	8	.....	.....	6	1.26	32.0
Father Point	N. 48 31	W. 68 28	7.34 a.m.	20	6	30.00	762.0	30.02	762.5	16.5	— 8.6	88.2	3	3	5	6	4	1	1	6	2	14146	22765	7	4.06	103.1
Fort Garry	N. 49 51	W. 97 07	5.39 a.m.	754	230	29.22	742.2	30.13	765.3	4.8	—15.1	97.7	6	6	.....	3	6	2	3	1	4	7127	11470	5	2.48	63.0
Fredericton	N. 45 57	W. 66 39	7.41 a.m.	59	18	29.97	761.2	30.04	763.0	20.0	— 6.7	83.7	4	4	15	2	2	2	1	1	1	.....	.....	5	6.29	159.8
Granton	N. 43 12	W. 81 21	6.43 a.m.	1015	309	28.91	734.3	30.07	763.8	27.1	— 2.7	97.5	3	8	.....	3	1	3	1	12	.....	.....	.....	6	4.13	104.9
Halifax	N. 44 39	W. 63 36	7.53 a.m.	122	37	29.87	758.7	30.01	762.2	25.2	— 3.8	87.2	4	4	8	3	3	2	3	2	2	.....	.....	5	6.05	153.7
Hamilton	N. 43 16	W. 79 53	6.49 a.m.	358	109	29.65	753.1	30.06	763.5	31.5	— 0.3	84.3	1	.....	5	14	.....	.....	3	7	1	.....	.....	7	2.99	75.9
Kingston	N. 44 14	W. 76 30	7.02 a.m.	307	94	29.72	754.9	30.08	764.0	25.2	— 3.8	80.9	3	7	4	4	3	2	.....	8	.....	6253	10063	6	2.73	69.3
Little Glace Bay	N. 46 12	W. 59 58	8.08 a.m.	34	10	29.95[b]	760.7[b]	29.99[b]	761.7[b]	23.3	— 4.8	88.0	4	8	4	6	4	3	.....	1	1	.....	.....	7	2.47	62.7
Montreal	N. 45 31	W. 73 33	7.13 a.m.	187	57	29.84	757.9	30.06	763.5	21.9	— 5.6	74.5	1	2	12	.....	2	3	3	7	1	.....	.....	6	4.02	102.1
Moose Factory	N. 51 16	W. 80 56	6.44 a.m.	30	9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Parry Sound	N. 45 19	W. 80 01	6.48 a.m.	635	194	29.34	745.2	30.09	764.3	20.1	— 6.6	80.4[a]	9	3	2	...	2	4	4	5	2	8427	13562	5	4.28	108.7
Peterborough	N. 44 17	W. 78 20	6.54 a.m.	688	210	29.31	744.3	30.10	764.5	27.5	— 2.5	87.1	1	7	2	.....	1	2	4	4	10	.....	.....	6	1.28	32.5
Port Dover	N. 42 47	W. 80 13	6.47 a.m.	635	194	29.35	745.5	30.08	764.0	30.2	— 1.0	93.9	1	6	2	3	6	.....	2	5	6	6410	10316	7	2.77	70.4
Port Stanley	N. 42 40	W. 81 13	6.43 a.m.	592	180	29.39	746.5	30.07	763.8	29.9	— 1.2	87.6	2	4	11	1	.....	2	9	2	.....	.....	.....	7	3.52	89.4
Quebec	N. 46 48	W. 71 12	7.23 a.m.	293	89	29.71	754.0	30.05	763.3	18.5	— 7.5	86.4	2	6	5	2	.....	.....	2	11	3	.....	.....	5	4.39	111.5
Rockliffe	N. 46 10	W. 77 48	6.57 a.m.	418	127	29.61	752.1	30.11	764.8	13.7	—10.2	80.9	1	5	7	.....	.....	3	5	.....	10	.....	.....	6	2.66	67.6
Saugeen	N. 44 30	W. 81 21	6.42 a.m.	656	200	29.29	744.0	30.05	763.3	26.6	— 3.0	88.7	5	3	2	2	4	5	2	5	3	9800	15878	8	3.16	80.3
St. Andrews	N. 43 04	W. 81 06	6.34 a.m.	47	14	29.94	760.5	30.01	762.2	25.1	— 3.8	88.2	7	7	1	3	.....	2	4	4	.....	.....	.....	5	6.76	171.7
St. John, N.B.	N. 45 17	W. 66 03	7.44 a.m.	150	46	29.83	757.7	30.01	762.2	25.0	— 3.9	91.8	7	3	1	7	1	2	.....	10	.....	.....	.....	0	5.99	152.2
St. Pierre	N. 46 47	W. 56 08	8.24 a.m.	?	?	.....	.....	29.91	759.7	21.1	— 6.1	.....	7	7	1	7	.....	1	1	7	.....	.....	.....	.....	3.18	80.8
Stratford	N. 43 23	W. 81 00	6.44 a.m.	1182	360	28.71	729.2	30.06	763.5	26.8	— 2.9	90.4	1	9	1	4	1	5	.....	.....	10	.....	.....	7	3.58	90.9

STATIONS.	Latitude.	Longitude.	Local Time.	Altitude of Barometer above sea.		Result of Simultaneous Observations for March, 1882.																		Average Cloudiness.	Total Precipitation.	
						Mean Barometer.				Mean Temperature.		Mean Rel. Humidity.	Wind.													
						Actual.		Reduced.					Directions.									Total Movement.				
				Feet.	Met'rs	Inch.	Mill.	Inch.	Mill.	Fah.	Cent		N	NW	W	SW	S	SE	E	NE	C	Miles	Kil.	0–10	Inch.	Mill.
CANADIAN—C't'd.	° ′	° ′																								
Sydney	N. 46 08	W. 60 10	8.07 a.m.	37	11	29.94	760.5	30.01	762.2	20.8	— 6.2	87.8	5	4	4	6	2	2	4	1	3	8239	13259	6	6.30	160.0
Toronto	N. 43 39	W. 79 23	6.50 a.m.	350	107	29.69	754.1	30.10	764.5	28.8	— 1.8	81.3	7	3	7	1	1	3	5	3	1	9858	15865	7	2.07	52.6
Windsor	N. 44 59	W. 63 58	7.53 a.m.	87	26	29.88	758.9	29.98	761.5	25.4	— 3.7	92.8	4	1	7	6	5	1	5	1	1	.....	.....	6	3.49	88.6
Woodstock	N. 43 08	W. 80 47	6.48 a.m.	980	299	28.95	735.3	30.06	763.5	28.5	— 1.9	81.6	2a	6	5	5	2	5	.....	5	.....	.....	.....	8	4.40	111.8
Yarmouth	N. 43 50	W. 66 02	7.44 a.m.	61	19	29.93	760.2	30.00	762.0	29.7	— 1.3	83.9	3	5	3	2	4	4	4	5	1	8526	13721	6	6.08	154.4
Sub-Series.																										
St. Johns, N. F.	N. 47 34	W. 52 42	8.37 a.m.	230	70	29.84	757.9	30.11	764.8	23.7	— 4.6	.....	.....	3	9	5	6	.....	1	6	1	.....	.....	6	4.70	119.4
CAPE COLONY																										
Cape St. Francis	S. 34 10	E. 24 50	1.47 p.m.	25	7	30.03	762.7	30.06	763.5	68.7	20.4	77.6	.....	.....	8	8	1	4	7	2	1	.....	.....	5	1.54	39.1
Cape Town	S. 34 02	E. 18 29	1.22 p.m.	27	8	29.96	761.0	30.00	762.0	79.5	26.4	51.8	2	6	4	.....	12	7	.....	.....	.....	.....	.....	4	4.43	112.5
CHINESE.																										
Sub Series.																										
Hankow *e*	N. 30 34	E. 114 20	7.45 p.m.	260	79	30.10	764.5	30.38	771.6	54.3	12.4	73.1	4	5	2	1	2	2	4	6	.....	.....	.....	5	1.35	34.3
Zi-Ka-Wei	N. 31 12	E. 121 26	8.14 p.m.	23	7	30.19	766.7	30.24	768.2	45.1	7.3	77.4	8	3	.....	.....	3	6	7	4	.....	.....	.....	6	0.82	20.7
DANISH.																										
Copenhagen	N. 55 41	E. 12 36	0.58 p.m.	43	13	29.85	758.1	29.89	759.3	45.0	7.2	73	.....	9	10	2	3	5	2	.....	.....	.....	.....	6	.....	.....
Fanöe	N. 55 27	E. 8 24	0.42 p.m.	20	6	29.85	758.1	29.87	758.6	44.1	6.7	85	.....	.....	15	10	3	2	1	.....	.....	.....	.....	6	.....	.....
Godthaab	N. 64 11	W. 51 46	8.41 a.m.	36	11	29.50	749.2	29.54	750.3	9.7	—12.4	92*n*	4	6	2	2	8	1	.....	5	3	.....	.....	10	.....	.....
Stykkisholm	N. 65 05	W. 22 46	10.37 a.m.	36	11	29.21	741.9	29.25	743.0	24.3	— 4.3	91	1	.....	1	8	4	4	4	6	3	.....	.....	8	.....	.....
Thorshavn	N. 62 02	W. 6 44	11.41 a.m.	29	9	29.41	747.0	29.45	747.9	39.9	4.4	73	3	2	3	12	4	1	1	5	.....	.....	.....	7	.....	.....
Vestervig	N. 56 47	E. 8 20	0.41 p.m.	82	25	29.70	754.4	29.79	756.7	41.9	5.5	87	.....	1	10	9	5	.....	1	4	1	.....	.....	6	.....	.....
FRENCH.																										
Agen	N. 44 12	E. 0 38	0.11 p.m.	604	184	29.53	750.0	30.19	766.7	55.0	12.8	68.1	3	4	3	2	.....	.....	.....	1	18	.....	.....	.....	1.01	25.6
Alençon	N. 48 26	E. 0 05	0.09 p.m.	476	145	29.59	751.5	30.14	765.5	51.4	10.8	74.1	5	1	.....	8	9	.....	1	7	.....	.....	.....	.....	1.81	46.0
Arras	N. 50 18	E. 2 46	0.19 p.m.	239	73	29.80	756.8	30.06	763.4	51.4	10.8	74.9	5	5	4	11	.....	2	.....	4	.....	.....	.....	.....	0.79	20.0
Avignon	N. 43 57	E. 4 48	0.27 p.m.	65	20	30.02	762.6	30.10	764.6	61.5	16.4	47.6	22	2	2	2	.....	2	.....	1	.....	.....	.....	2	0.98	24.8
Bar-sur-Seine	N. 48 07	E. 4 22	0.25 p.m.	518	158	29.56	750.9	30.12	765.1	52.7	11.5	59.5	.....	1	5	4	8	4	9	.....	.....	.....	.....	5	1.44	36.7
Beauvais	N. 49 26	E. 2 05	0.16 p.m.	246	75	29.85	758.2	30.11	764.8	52.3	11.3	61.4	2	6	2	9	2	1	5	4	.....	.....	.....	6	1.54	39.0
Besançon	N. 47 14	E. 6 01	0.32 p.m.	846	258	29.18	741.2	30.08	764.1	52.9	11.6	71.6	2	.....	.....	3	8	1	.....	4	.....	.....	.....	.....	1.27	32.2
Bordeaux	N. 44 50	E. 0 32	0.06 p.m.	243	74	29.92	759.9	30.18	766.6	53.8	12.1	63.7	5	6	6	4	6	1	1	2	.....	.....	.....	6	2.32	58.9
Bourges	N. 47 10	E. 2 26	0.17 p.m.	510	156	29.58	751.4	30.14	765.5	54.7	12.6	56.6	6	3	8	7	3	.....	2	2	.....	.....	.....	.....	1.51	38.4
Brest	N. 48 24	W. 4 30	11.50 a.m.	210	64	29.92	760.0	30.17	766.2	55.0	12.8	73.9	5	.....	5	12	.....	.....	.....	4	5	.....	.....	6	1.84	46.8
Caen	N. 49 11	W. 0 21	0.07 p.m.	69	21	30.02	762.5	30.10	764.4	53.8	12.1	66.6	3	7	3	9	7	1	1	.....	.....	.....	.....	5	1.22	31.1
Châloas-sur-Marne	N. 48 57	E. 4 21	0.25 p.m.	294	90	29.72	754.9	30.04	763.0	53.4	11.9	70.9	2	2	5	0	11	1	.....	4	.....	.....	.....	5	1.27	32.3
Charleville	N. 49 46	E. 4 49	0.27 p.m.	476	145	29.57	751.1	30.09	764.2	52.3	11.3	64.4	1	6	9	5	5	2	1	2	.....	.....	.....	5	2.52	63.9
Clermont-Fd	N. 45 46	E. 3 05	0.20 p.m.	1273	388	28.77	730.8	30.13	765.3	55.0	12.8	52.4	9	5	9	1	2	1	3	1	.....	.....	.....	4	1.92	48.8
Cluny	N. 46 26	E. 4 39	0.27 p.m.	787	240	29.28	743.6	30.14	765.6	53.2	11.8	62.9	6	6	2	2	2	6	1	6	.....	.....	.....	5	1.31	33.2
Commercy	N. 48 46	E. 5 35	0.30 p.m.	797	243	29.24	742.8	30.13	765.2	53.4	11.9	57.5	3	3	13	2	1	1	2	2	4	.....	.....	4	1.97	50.1
Gap	N. 44 33	E. 6 05	0.32 p.m.	2427	740	27.51	698.7	30.03	762.8	56.3	13.5	45.1	2*h*	4	2	3	5	3	1	3	.....	.....	.....	.....	0.90	22.8
Gréasque	N. 43 25	E. 5 37	0.31 p.m.	1056	322	28.94	735.0	30.06	763.4	60.3	15.7	41.1	.....	.....	.....	.....	.....	17	8	.....	.....	.....	.....	3	1.28	32.5
Grenoble	N. 45 12	E. 5 43	0.31 p.m.	715	218	29.33	744.9	30.10	764.5	55.0	12.8	53.7	1	9	4	2	1	2	6	6	.....	.....	.....	.....	1.48	37.5
Guéret	N. 46 10	E. 1 52	0.16 p.m.	1486	453	28.56	725.4	30.16	766.1	51.4	10.8	55.7	3	5	3	9	1	3	4	3	.....	.....	.....	.....	2.22	56.3
Lamballe	N. 48 28	W. 2 31	11.58 a.m.	252	77	29.87	758.6	30.14	765.6	52.5	11.4	72.2	5	8	5	0	4	1	2	.....	.....	.....	.....	6	1.66	42.1
Lescar	N. 43 20	W. 0 26	0.06 p.m.	525	160	29.62	752.4	30.19	766.8	56.8	13.8	66 8	5	4	13	3	.....	1	5	.....	.....	.....	.....	4	2.39	60.6
Lorient	N. 47 45	W. 3 21	11.55 a.m.	86	26	30.09	764.3	30.19	766.9	55.0	12.8	75.8	4	2	3	9	5	1	1	3	3	.....	.....	7	2.37	60.2
Lyon	N. 45 41	E. 2 30	0.25 p.m.	981	299	29.08	738.6	30.15	765.7	52.9	11.6	54.1	11	2	4	.....	5	2	3	4	.....	.....	.....	7	1.48	37.6
Mans	N. 48 01	E. 0 12	0.09 p.m.	285	87	29.85	758.3	30.17	766.2	51.1	10.6	69.4	6	4	7	4	3	2	1	4	.....	.....	.....	5	2.01	51.0
Marseille	N. 43 18	E. 5 23	0.29 p.m.	246	75	29.81	757.2	30.08	764.0	60.4	15.8	57.5	1	8	8	11	2	1	.....	.....	.....	.....	.....	3	0.68	17.4
Mont-Louis	N. 42 30	E. 2 07	0.16 p.m.	5203	1586	24.86	631.5	29.71	754.5	43.0	6 1	52.1	3	8	4	5	1	2	3	5	.....	.....	.....	4	1.92	48.9
Montpellier	N. 43 37	E. 3 53	0.24 p.m.	102	31	29.96	761.0	30.09	764.3	62.1	16.7	51.8	9	.....	.....	.....	.....	12	5	4	1	.....	.....	1	0.1	3.
Nancy	N. 48 42	E. 6 11	0.33 p.m.	725	221	29.32	744.6	30.10	764.6	52.5	11.4	55.5	2	5	10	7	6	1	.....	.....	.....	.....	.....	5	1.01	30.8
Nantes	N. 47 13	W. 1 33	0.02 p.m.	134	41	30.03	762.8	30.20	767.0	55.8	13.2	65.8	7	2	4	7	5	1	3	2	.....	.....	.....	7	1.74	44.2
Perpignan	N. 42 42	E. 2 53	0.19 p.m.	105	32	30.02	762.5	30.13	765.3	60.8	16.0	42.4	9	5	.....	1	5	7	.....	4	.....	.....	.....	4	0.44	11.1
Pic du Midi (Sum-	N. 42 56	W. 0 08	0.08 p.m.	9380	2859	21.23	539.2	.....	.....	24.8	— 4.0	.....	2	4	1	3	2	6	5	8	.....	.....	.....	5	11.73	297.9
Privas ..... [mit.)	N. 44 45	E. 4 36	0.26 p.m.	997	304	29.06	738.1	30.13	765.2	50.3	13.5	54.1	14*f*	.....	.....	1	8	1	.....	1	.....	.....	.....	3	2.2	55.
Puy de Dome	N. 45 40	E. 2 58	0.20 p.m.	4813	1467	25.19	639.7	.....	.....	35.4	1.9	80.9	5	1	7	9	1	2	3	3	.....	.....	.....	.....	5.42	137.8
Rochefort	N. 45 56	W. 0 58	0.04 p.m.	29	9	30.15	765.8	30.18	766.6	55 4	13.0	84.8	4	1	10	0	4	.....	.....	4	2	.....	.....	5	1.01	25.6
Roche-sur-Yon	N. 46 40	W. 1 26	0.02 p.m.	198	60	29.94	760.4	30.16	766.0	53.0	12.0	68.8	5	12	2	3	1	1	2	5	.....	.....	.....	5	2.07	52.5
Rodez	N. 44 21	E. 2 34	0.18 p.m.	2050	625	27.98	710.8	30.16	766.0	49.8	9.9	62.9	1	19	3	.....	.....	3	3	2	.....	.....	.....	7	2.20	55.9
Rouen	N. 49 26	E. 1 05	0.12 p.m.	39	12	30.07	763.8	30.12	765.0	53.8	12.1	64.5	2	3	3	15	.....	3	3	2	.....	.....	.....	5	1.90	48.3
Saint Maur	N. 48 48	E. 2 21	0.17 p.m.	162	49	29.90	760.9	30.12	765.1	52.7	11.5	62.9	5	.....	5	7	6	2	1	5	.....	.....	.....	6	1.05	41.8
Toulouse	N. 43 37	E. 1 27	0.14 p.m.	636	194	29.49	749.1	30.22	767.6	55.8	13.2	62.5	6	13	5	1	.....	3	1	2	.....	.....	.....	5	1.01	25.6
Versailles	N. 48 48	E. 2 07	0.16 p.m.	445	136	29.62	752.4	30.11	764.9	52.3	11.3	61.1	4	4	8	7	1	1	.....	6	.....	.....	.....	6	0.98	24.9
Sub-Series.																										
Paris, Montsouris	N. 48 50	E. 2 20	0.17 p.m.	256	78	29.84	757.8	30.13	765.2	52.7	11.5	62.9	4	1	6	8	4	3	2	3	.....	.....	.....	7	1.48	37.7
GERMAN.																										
Bamberg	N. 49 54	E. 10 54	0.51 p.m.	787	240	29.22	742.1	30.07	763.8	50.9	10.5	54.4	.....	15	5	7	.....	1	.....	1	2	.....	.....	4	1.24	31.5
Berlin	N. 52 30	E. 13 23	1.02 p.m.	164	50	29.77	756.2	29.95	760.7	51.8	11.0	56.5	1	8	4	8	5	1	2	2	.....	.....	.....	6	1.89	48.0
Breslau	N. 51 07	E. 17 02	1.17 p.m.	482	147	29.48	748.8	30.01	762.3	51.4	10.8	52.7	1	1	14	5	3	4	1	1	.....	.....	.....	5	0.83	21.0
Carlsruhe	N. 49 01	E. 8 25	0.42 p.m.	404	123	29.65	753.0	30.09	764.3	53.4	11.9	61.3	.....	1	.....	20	.....	.....	4	6	.....	.....	.....	6	1.02	41.2
Cassel	N. 51 19	E. 9 28	0.46 p.m.	669	204	29.27	743.4	29.98	761.5	51.6	10.9	56.0	2	5	5	3	16	.....	.....	.....	.....	.....	.....	5	1.57	39.8
Frankfort on M	N. 50 08	E. 8 41	0.43 p.m.	338	103	29.69	754.2	30.06	763.0	53.0	12.0	58.4	2	3	2	13	4	3	1	3	.....	.....	.....	6	1.32	33.4
Friedrichshafen	N. 47 39	E. 9 29	0.46 p.m.	1355	413	28.66	728.0	30.12	765.0	48.2	9.0	71.2	.....	.....	1	10	8	1	.....	5	.....	.....	.....	4	1.04	41.6
Hamburg	N. 53 33	E. 9 58	0.48 p.m.	85	26	29.86	758.5	29.96	760.9	48.0	8.9	76.7	1	3	11	8	1	4	2	.....	1	.....	.....	6	2.08	52.9
Kiel	N. 54 19	E. 10 04	0.48 p.m.	13	4	29.88	758.9	29.89	759.3	46.6	8.1	70.8	1	3	13	9	.....	1	3	1	.....	.....	.....	6	2.51	63.7
Leipsic	N. 51 20	E. 12 24	0.58 p.m.	390	119	29.63	752.5	30.05	763.3	51.4	10.8	58.2	3	3	4	10	3	1	.....	1	.....	.....	.....	6	2.42	61.6
Magdeburg	N. 52 09	E. 11 37	0.54 p.m.	177	54	29.79	756.7	29.99	761.8	52.3	11.3	60.6	2	2	13	5	4	4	.....	1	.....	.....	.....	5	2.47	62.8
Memel	N. 55 43	E. 21 07	1.32 p.m.	39	12	29.82	757.5	29.87	758.7	40.3	4.6	82.5	3	4	7	11	5	.....	1	.....	.....	.....	.....	7	.....	.....
Munich	N. 48 09	E. 11 34	0.54 p.m.	1732	528	28.25	717.6	30.12	765.1	50.2	10.1	55.0	2	18	.....	2	.....	.....	.....	6	3	.....	.....	5	1.50	38.1
Neufahrwasser	N. 54 24	E. 18 40	1.25 p.m.	16	5	29.89	759.2	29.91	759.6	46.8	8.2	68.6	3	4	9	3	6	1	2	3	.....	.....	.....	8	0.78	19.9
Neustadt	N. 49 21	E. 8 08	0.41 p.m.	479	146	29.54	750.2	30.07	763.7	52.9	11.6	61.1	2	.....	11	3	3	.....	2	2	8	.....	.....	5	1.17	29.7
Stuttgart	N. 48 47	E. 9 11	0.45 p.m.	833	254	29.12	739.7	30.02	762.5	54.0	12.2	52.8	11	1	9	3	1	.....	5	1	.....	.....	.....	5	0.54	13.7
Wustrow	N. 54 21	E. 12 24	0.58 p.m.	23	7	29.91	759.6	29.93	760.2	44.2	6.8	82.6	2	.....	8	14	2	3	2	.....	.....	.....	.....	7	0.92	23.4
GREEK.																										
Athens	N. 37 58	E. 23 44	1.43 p.m.	360	110	29.69	754.1	30.08	764.1	63.1	17.3	.....	1	2	.....	11	6	.....	1	10	.....	.....	.....	4	2.59	65.8
ITALIAN.																										
Udine	N. 46 04	E. 13 14	1.01 p.m.	381	116	29.66	753.4	30.08	763.9	58.3	14.6	51	1*e*	1	.....	7	8	.....	3	3	5	.....	.....	4	5.37	136.4
Milan	N. 45 28	E. 9 11	0.45 p.m.	482	147	29.56	750.7	30.07	763.8	57.7	14.3	54	2	.....	7	3	4	9	3	3	.....	.....	.....	4	1.85	47.1
Padua	N. 45 24	E. 11 53	0.56 p.m.	102	31	29.95	760.7	30.06	763.5	57.0	13.9	58	3	1	1	2	4	6	9	5	.....	.....	.....	4	2.80	72.6
Moncalieri	N. 45 00	E. 7 42	0.39 p.m.	853	260	29.16	740.7	30.08	763.9	56.5	13.6	57	6	1	.....	1	6	8	7	2	.....	.....	.....	4	1.15	29.3
Genoa	N. 44 25	E. 8 55	0.44 p.m.	157	48	29.86	758.4	30.05	763.3	57.9	14.4	56	9	2	1	11	4	3	.....	1	.....	.....	.....	4	2.68	68.0
Mondovi *b*	N. 44 22	E. 7 48	0.39 p.m.	1824	556	28.13	714.5	30.06	763.4	53.2	11.8	52	4	6	16	.....	.....	.....	1	2	.....	.....	.....	2	0.95	24.1
Pesaro	N. 43 55	E. 12 53	1.00 p.m.	46	14	30.00	762.1	30.05	763.3	55.0	12.8	69	15	.....	.....	6	5	1	2	.....	8	.....	.....	5	1.52	38.6
Florence	N. 43 46	E. 11 14	0.53 p.m.	240	73	29.79	756.7	30.05	763.2	59.5	15.3	51	1	5	6	5	1	1	1	11	.....	.....	.....	3	3.11	78.9
Leghorn	N. 43 32	E. 10 18	0.49 p.m.	79	24	29.91	759.7	30.00	761.9	58.5	14.7	57	2	5	8	5	.....	3	5	.....	.....	.....	.....	4	1.92	48.8
Rome	N. 41 54	E. 12 29	0.58 p.m.	164	50	29.85	758.2	30.02	762.6	63.0	17.2	44	4	2	8	7	0	2	1	1	.....	.....	.....	5	1.30	32.9
Lecce	N. 40 21	E. 18 12	1.21 p.m.	236	72	29.78	756.4	30.04	762.9	61.5	16.4	59	4	5	6	5	4	5	1	1	.....	.....	.....	5	2.00	65.9
Cosenza	N. 39 13	E. 16 15	1.13 p.m.	840	256	29.14	740.1	30.03	762.8	59.4	15.2	74	2	0	6	3	5	6	2	1	.....	.....	.....	6	2.03	51.6
Cagliari *b*	N. 39 13	E. 9 10	0.45 p.m.	180	55	29.82	757.4	30.01	762.3	60.8	16.0	58	.....	6	7	.....	7	7	.....	2	.....	.....	.....	4	1.20	31.9
Palermo	N. 38 07	E. 13 22	1.02 p.m.	236	72	29.79	756.6	30.04	763.0	62.4	16.9	54	1	3	3	4	1	1	2	16	.....	.....	.....	5	4.73	120.2
Syracuse	N. 37 03	E. 15 18	1.09 p.m.	43	13	29.96	760.9	30.00	762.1	62.1	16.7	65	.....	.....	3	4	5	6	10	3	.....	.....	.....	6	3.15	80.0
Sub-Series.																										
Naples	N. 40 52	E. 14 18	1.05 p.m.	489	149	29.49	749.1	30.02	762.4	60.6	15.9	59.3	2	2	3	8	5	2	2	7	.....	.....	.....	5	2.30	58.5
Stelvio	N. 46 32	E. 10 26	0.50 p.m.	8343	2543	22.13	562.1	.....	.....	30.4	—0.9	62.3	.....	1	3	9	.....	8	1	9	.....	.....	.....	4	2.73	69.4
Valdobbia	N. 45 47	E. 7 54	0.40 p.m.	8360	2548	22.20	563.8	.....	.....	32.7	0.4	62.1	13	.....	2	2	.....	3	5	6	.....	.....	.....	4	29.53	750.0

STATIONS.	Latitude.	Longitude.	Local Time.	Altitude of Barometer above sea.		RESULT OF SIMULTANEOUS OBSERVATIONS FOR MARCH, 1882.																		Average Cloudiness.	TOTAL PRECIPITATION.	
						Mean Barometer.				Mean Temperature.		Mean Rel. Humidity.	WIND.													
						Actual.		Reduced.					Directions.									Total Movement.				
				Feet.	Met'rs	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.		N	NW	W	SW	S	SE	E	NE	O	Miles	Kil.	0–10	Inch.	Mill.
INDIAN.	° ′	° ′																								
Kurachee	N. 24 47	E. 67 04	4.36 p.m.	49	15	29.92	759.9	29.97	761 2	81.0	27.2	59.	.....	3	15	12	.....	.....	.....	1	.....	.....	.....	0	0	0
Deesa	N. 24 16	E. 72 14	4.57 p.m.	465	142	29.38	746.4	29.85	758.1	92.5	33.6	28.	3	8	12	5	.....	2	.....	.....	1	.....	.....	3	0	0
Bombay	N. 18 54	E. 72 49	5.00 p.m.	37	11	29.83	757.6	29.87	758.6	83.5	28.6	62.	4	21	5	1	.....	.....	.....	.....	.....	.....	.....	2	0.02	0.5
Poona	N. 18 28	E. 74 10	5.05 p.m.	1849	564	27.99	710.9	29.79	756.7	93.5	34.2	16.	2	8	14	3	1	.....	1	2	.....	.....	.....	3	0.26	6.6
Belgaum	N. 15 52	E. 74 42	5.07 p.m.	2550	777	27.32	694.0	29.82	757.3	85.3	29.6	40.	.....	1	3	16	5	2	3	1	.....	.....	.....	2	1.33	33.8
Lahore	N. 31 34	E. 74 20	5.05 p.m.	732	223	29.12	739.7	29.86	758.6	81.6	27.6	27.	9	7	7	2	.....	1	1	2	2	.....	.....	3	0.03	0.8
Roorkee	N. 29 52	E. 77 56	5.20 p.m.	887	270	28.92	734.5	29.81	757.3	82.3	27.9	25.	.....	18	4	2	.....	2	.....	.....	5	.....	.....	4	0.02	0.5
Agra	N. 27 10	E. 78 05	5.20 p.m.	555	169	29.28	743.7	29.84	757.8	89.9	32.2	18.	6	8	10	1	2	.....	2	.....	2	.....	.....	1	0	0
Nagpur	N. 21 09	E. 79 11	5.24 p.m.	1025	312	28.77	730.7	29.78	756.3	96.4	35.8	18.	3	7	.....	6	5	1	.....	1	8	.....	.....	2	0.02	0.5
Jubulpore	N. 23 09	E. 79 59	5.28 p.m.	1351	412	28.50	723.9	29.83	757.6	91.6	33.1	16.	10	8	.....	.....	.....	.....	1	8	1	.....	.....	1	0	0
Lucknow	N. 26 50	E. 81 00	5.32 p.m.	369	112	29.44	747.8	29.81	757.2	91.1	32.8	17.	.....	7	10	5	1	3	.....	.....	5	.....	.....	2	0	0
Allahabad	N. 25 26	E. 81 52	5.35 p.m.	307	94	29.50	749.3	29.81	757.1	89.8	32.1	22.	1	15	4	1	.....	.....	.....	4	6	.....	.....	2	0	0
Patna	N. 25 37	E. 85 08	5.49 p.m.	183	56	29.64	752.7	29.82	757.4	86.9	30.5	35.	.....	11	9	1	.....	.....	4	6	.....	.....	.....	2	0.01	0.2
Hazaribagh	N. 24 00	E. 85 24	5.50 p.m.	2007	612	27.81	700.4	29.79	756.7	86.0	30.0	28.	8	16	6	1	.....	.....	.....	.....	.....	.....	.....	2	0	0
Cuttack	N. 20 29	E. 85 54	5.52 p.m.	80	24	29.74	755.5	29.82	757.5	89.0	31.7	45.	.....	.....	.....	.....	12	15	3	.....	.....	1	.....	2	0.04	1.0
Calcutta	N. 22 33	E. 88 21	6.01 p.m.	21	7	29.79	756.6	29.81	757.1	85.4	29.7	51.	2	2	4	8	11	1	1	1	1	.....	.....	1	0.52	13.2
Dhubri	N. 26 07	E. 89 50	6.08 p.m.	118	36	29.66	753.4	29.78	756.4	78.7	25.9	56.	.....	.....	.....	1	.....	1	2	7	20	.....	.....	2	1.22	31.0
Chittagong	N. 22 21	E. 91 50	6.15 p.m.	87	26	29.80	756.8	29.89	759.1	79.4	26.3	75.	.....	1	5	17	5	1	1	.....	1	.....	.....	2	0.11	2.8
Sibsagar	N. 26 59	E. 94 40	6.27 p.m.	333	112	29.54	750.3	29.88	759 0	71.9	22.2	78.	.....	.....	.....	5	.....	2	2	22	.....	.....	.....	4	5.19	131.8
Jeypore	N. 26 55	E. 75 50	5.05 p.m.	1431	436	28.43	722.1	29.85	758.3	87.3	30.7	21.	4	16	3	3	.....	1	1	2	1	.....	.....	3	0	0
Zanzibar	S. 6 10	E. 39 11	2.45 p.m.	23	7	29.83	757.7	.....	.....	84.7	29.3	70.	7	1	2	3	2	3	2	11	.....	.....	.....	6	5.77	146.6
Trichinopoly	N. 10 50	E. 78 44	5.23 p.m.	275	84	29.60	751.8	.....	.....	93.2	34.0	33.	.....	.....	.....	.....	4	6	18	3	.....	.....	.....	2	0	0
Bellary	N. 15 09	E. 76 57	5.16 p.m.	1455	444	28.36	720.3	.....	.....	96.1	35.6	14.	.....	3	2	1	.....	18	7	.....	.....	.....	.....	3	0	0
JAPANESE.																										
Aomori	N. 40 51	E. 140 45	9.31 p.m.	32	10	29.95	760.8	29.99	761.8	32.4	0.2	80.0	1	1	3	.....	11	1	13	.....	1	8168	13144	6	2.87	73.5
Hakodate	N. 41 47	E. 140 44	9.31 p.m.	10	3	29.95	760.7	29.96	761.0	33.2	0.7	70.	8	1	3	.....	.....	3	8	4	4	8451	13600	6	3.12	79.3
Hiroshima	N. 34 20	E. 132 27	8.58 p.m.	14	4	30.09	764.3	30.10	764.6	42.3	5.7	80.3	18	1	.....	.....	3	1	6	2	.....	4126	6640	4	3.99	101.3
Kanazawa	N. 36 33	E. 136 40	9.14 p.m.	95	29	30.00	762.1	30.11	764.8	39.7	4.3	80.3	4	.....	3	14	6	1	2	1	.....	5461	8788	7	5.00	126.9
Kioto	N. 35 01	E. 135 46	9.11 p.m.	162	49	29.92	759.9	30.10	764.5	40.5	4.7	79.1	8	.....	.....	1	6	1	6	7	2	2916	4693	5	2.85	72.5
Kochi	N. 33 33	E. 133 34	9.02 p.m.	20	6	30.09	764.2	30.11	764.8	47.1	8.4	72.7	7	2	2	1	.....	1	8	10	.....	605	974	4	4.50	114.3
Nagasaki	N. 32 44	E. 129 52	8.47 p.m.	189	58	29.94	760.4	30.15	765.7	46.5	8.0	77.1	7	3	.....	2	4	5	1	5	4	4055	6526	5	3.80	96.5
Nemuro	N. 43 21	E. 145 35	9.50 p.m.	58	18	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Niigata	N. 37 55	E. 139 03	9.24 p.m.	32	10	30.04	762.9	30.07	763.9	38.6	3.7	81.0	2	2	3	4	2	9	9	.....	.....	6205	9986	7	4.56	115.7
Nobiru	N. 38 23	E. 141 12	9.32 p.m.	15	5	30.01	762.1	30.02	762.5	36.5	2.5	75.2	19	1	1	.....	1	1	4	4	.....	8802	14165	5	1.88	47.9
Supporo	N. 43 04	E. 141 23	9.33 p.m.	61	19	.....	.....	.....	.....	29.2	—1.6	83.	.....	2	1	9	5	1	.....	7	6	5985	9632	7	2.58	65.6
Tokei	N. 35 40	E. 139 45	9.27 p.m.	63	19	29.96	761.1	30.04	702.9	42.8	6.0	74.9	13	3	3	2	5	.....	1	2	2	4449	7160	6	1.61	41.0
Wakayama	N. 34 14	E. 135 09	9.09 p.m.	48	15	30.04	763.1	30.10	764.5	45.0	7.2	69.3	8	0	2	1	1	.....	4	5	4	3980	6405	6	1.79	45.3
MAURITIUS.																										
Mauritius	S. 20 06	E. 57 33	3.58 p.m.	181	55	29.71	754.6	29.90	759.4	78.7	25.9	78.2	2	2	.....	.....	1	6	13	7	.....	.....	.....	9	17.53	445.3
MEXICAN.																										
Guanajuato	N. 21 01	W. 100 48	5.24 a.m.	6683	2037	23.73	602.7	29.96	761.0	58.1	14.5	72.	.....	.....	1	8	4	8	1	6	3	.....	.....	2	0.02	0.4
Leon	N. 21 07	W. 101 35	5.22 a.m.	5902	1799	24.44	620.5	30.15	765.8	55.6	13.1	76.	6	16	1	2	.....	1	.....	3	2	.....	.....	3	0.16	4.1
Mazatlan	N. 23 11	W. 106 17	5.03 a.m.	249	76	29.75	755.6	30.02	762.6	63.7	17.6	88.	2	11	.....	1	.....	5	7	5	.....	.....	.....	4	inap.	inap.
Mexico	N. 19 26	W. 99 00	5.32 a.m.	7490	2283	23.14	587.7	30.24	768.0	51.8	11.0	63.	1	3	1	5	.....	1	.....	1	19	.....	.....	2	1.56	39.5
Morelia	N. 19 42	W. 101 06	5.22 a.m.	6247	1940	24.23	615.3	30.38	771.5	57.0	13.9	73.	.....	.....	2	2	7	16	2	2	.....	.....	.....	4	0.21	5.2
Pabellon	N. 22 04	W. 102 04	5.20 a.m.	6312	1924	24.00	609.7	30.07	763 6	53.6	12.0	95.	.....	1	.....	3	.....	.....	.....	4	23	.....	.....	6	0.13	3.2
Puebla	N. 19 02	W. 98 03	5.36 a.m.	7113	2168	23.47	595.2	30.87?	768.7?	48.2	9.0	71.	1	.....	.....	.....	.....	.....	.....	2	28	.....	.....	1	inap.	inap.
San Luis Potosi	N. 22 10	W. 100 51	5.25 a.m.	6211	1893	24.25	615.8	30.20	767.1	58.6	14.8	63.	.....	.....	1	4	1	10	14	1	.....	.....	.....	6	0.23	5.3
Zacatecas	N. 22 44	W. 102 26	5.18 a.m.	8100	2469	22.59	573.7	30.23	767.7	52.2	11.2	.....	3	3	3	8	.....	.....	1	6	6	.....	.....	2	0.43	11.0
NETHERLANDS.																										
Flushing	N. 51 24	E. 3 35	0.22 p.m.	0	0	30.08	763.9	30.08	763.9	50.0	10.0	.....	3	3	9	10	3	1	1	1	.....	.....	.....	.....	2.49	63.2
Groningen	N. 53 12	E. 6 34	0.34 p.m.	?	?	29.94	760.4	29.99	761.8	47.8	8.8	.....	1	6	7	9	7	1	.....	.....	.....	.....	.....	.....	2.11	53.5
Helder	N. 52 58	E. 4 45	0.27 p.m.	0	0	29.99	761.7	29.99	761.7	45.7	7.6	.....	2	2	6	8	12	.....	1	.....	.....	.....	.....	.....	1.50	38.0
Hellevoetsluis	N. 51 49	E. 4 08	0.25 p.m.	0	0	30.04	763.0	30.04	763.0	50.4	10.2	76.0	1	3	10	14	1	2	.....	.....	.....	.....	.....	.....	2.31	58.6
Utrecht	N. 52 05	E. 5 07	0.29 p.m.	43	13	30.00	761.9	30.04	763.1	51.8	11.0	68.0	1	3	6	15	5	.....	.....	1	.....	.....	.....	5	2.98	75.7
NORWEGIAN.																										
Bergen	N. 60 24	E. 5 20	0.29 p.m.	56	17	29.57	751.1	29.63	752.7	40.5	4.7	74.2	1	4	4	1	14	6	1	.....	.....	.....	.....	8	13.41	340.5
Brono	N. 65 28	E. 12 14	0.57 p.m.	34	10	29.41	747.1	29.45	748.1	34.0	1.1	66.9	2	4	3	8	1	3	2	2	6	.....	.....	7	3.08	78.3
Christiania	N. 59 55	E. 10 45	0.51 p.m.	134	41	29.50	749.4	29.65	753.2	41.7	5.4	57.5	1	3	5	10	4	2	2	3	1	.....	.....	6	1.32	33.6
Gjaesvaer	N. 71 07	E. 25 22	1.49 p.m.	23	7	29.24	742.7	29.26	743.3	28.2	—2.1	.....	2	4	4	5	3	8	2	.....	3	.....	.....	7	.....	.....
Lodingen	N. 68 24	E. 16 01	1.12 p.m.	43	13	29.32	744.7	29.37	745.9	29.1	—1.6	74.	2	3	7	8	3	1	2	1	4	.....	.....	7	2.60	65.9
PORTUGUESE.																										
Angra	N. 38 39	W. 27 14	10.19 a.m.	144	44	.....	.....	.....	.....	59.2	15.1	76.3	1	.....	6	3	6	11	3	.....	1	.....	.....	4	0.79	20.1
Campo Major	N. 39 02	W. 6 59	11.40 a.m.	945	288	29.20	741.7	30.20	767.0	63.9	17.7	42.9	6	2	3	3	3	.....	10	4	.....	.....	.....	3	0.85	21.6
Funchal	N. 32 38	W. 16 55	11.00 a.m.	82	25	30.20	767.1	30.29	769.3	64.0	17.8	55.2	4	1	2	13	1	2	4	2	2	.....	.....	4	2.98	75.8
Lisbon	N. 38 42	W. 9 08	11.31 a.m.	335	102	29.89	759.1	30.25	768.3	59.4	15.2	59.8	12	2	3	3	2	.....	2	7	.....	.....	.....	4	0.93	23.7
Ponta Delgada	N. 37 45	W. 25 41	10.25 a.m.	66	20	30.37	771.4	30.44	773.2	62.2	16.8	67.3	1	2	2	4	5	2	3	6	0	.....	.....	4	2.20	56.0
St. Paulde Loanda	S. 8 49	E. 13 07	1.00 p.m.	193	59	29.07	753.7	29.87	758.7	82.4	28.0	86.4	.....	1	20	9	.....	.....	.....	1	.....	.....	.....	5	0	0
Serra da Estrella	N. 40 25	W. 7 35	11.37 a.m.	4728	1441	25.41	645.5	30.21	767.3	44.6	7.0	56.7	2	5	4	.....	1	12	4	3	.....	.....	.....	4	4.11e	104.4e
RUSSIAN.																										
Akmolinski	N. 51 12	E. 71 23	4.54 p.m.	843?	396?	28.96	735.7	30.12	765.0	18.3	—7.6	89.7	.....	.....	3	17	5	1	4	1	.....	.....	.....	6	0.17	4.4
Archangel	N. 64 33	E. 40 32	2.50 p.m.	16	5	29.46	748.3	29.48	748.8	28.0	—2.2	82.0	.....	4	7	4	5	9	2	.....	.....	.....	.....	8	0.73	18.5
Astrakhan	N. 46 21	E. 48 02	3.20 p.m.	‖ 68	‖ 21	30.20	767.0	30.12	764.9	40.8	4.9	63.6	.....	3	5	6	3	7	3	1	3	.....	.....	7	0.90	22.8
Barnaul	N. 53 20	E. 83 47	5.43 p.m.	459?	140?	29.69	754.2	30.22	767.7	24.8	—4.0	77.8	.....	.....	.....	6	18	.....	.....	.....	7	.....	.....	8	0.59	15.1
Dorpat	N. 58 23	E. 26 43	1.55 p.m.	223	68	29.48	748.9	29.74	755 3	37.6	3.1	75.3	2	2	8	7	7	2	2	1	.....	.....	.....	9	1.69	42.9
Ekaterinburg	N. 56 49	E. 60 38	4.10 p.m.	894?	272?	28.80	731.6	29.80	757.0	28.6	—1.9	65.4	2	1	13	7	3	3	.....	2	.....	.....	.....	8	0.29	7.4
Kasan	N. 55 47	E. 49 08	3.24 p.m.	249	76	29.54	750.2	29.82	757.4	28.6	—1.9	73.5	2	3	3	9	11	3	.....	.....	.....	.....	.....	8	0.43	11.0
Kertch	N. 45 21	E. 36 29	2.34 p.m.	18?	6?	30.01	762 3	30.03	762.8	45.7	7.6	71.2	3	5	3	3	7	4	3	3	.....	.....	.....	5	0.32	8.2
Kieff	N. 50 27	E. 30 30	2.10 p.m.	600	183	29.26	743.2	29.91	759.6	46.2	7.9	56.5	1	6	7	6	2	7	2	.....	.....	.....	.....	6	1.88	47.8
Lugan	N. 48 35	E. 39 20	2.45 p.m.	188?	57?	29.79	756.6	29.99	761.8	44.1	6.7	54.4	.....	6	7	4	5	6	3	.....	.....	.....	.....	6	0.41	10.5
Moscow	N. 55 46	E. 37 40	2.39 p.m.	448	136	29.24	742.8	29.73	755.2	37.0	2.8	65.1	6	.....	1	4	17	1	.....	2	.....	.....	.....	7	1.83	46.6
Nikolaiev	N. 46 58	E. 31 58	2.16 p.m.	62	19	30.00	762.1	30.08	763.9	49.6	9.8	62.6	5	5	2	4	8	2	1	2	2	.....	.....	5	0.35	8.8
Nikolaievsk	N. 53 08	E. 140 45	9.31 p.m.	75?	23?	29.90	759.4	29.98	761.6	11.8	—11.2	85.4	.....	4	1	.....	.....	1	1	3	19	.....	.....	6	0.90	22.9
Pekin	N. 39 57	E. 116 28	7.54 p.m.	123?	38?	30.04	762.9	30.18	766.5	44.6	7.0	41.3	.....	0	.....	1	.....	8	.....	1	15	.....	.....	2	0.06	1.4
St. Petersburg	N. 59 56	E. 30 16	2.09 p.m.	15	5	29.03	752.7	29.65	753.1	34.9	1.6	71.7	.....	7	9	4	6	2	2	1	.....	.....	.....	7	0.58	14.8
Tashkend	N. 41 19	E. 69 16	4.45 p.m.	1493?	455?	28.58	725.9	30.19	766.8	45.9	7.7	66.8	4	4	.....	.....	1	.....	1	2	19	.....	.....	6	3.11	79.1
Tiflis	N. 41 43	E. 44 47	3.07 p.m.	1343	409	28.68	728.4	30.12	764.9	50.4	10.2	40.4	4	10	1	.....	8	2	3	1	2	.....	.....	6	0.20	5.1
Vladivostock	N. 43 09	E. 132 00	8.56 p.m.	59?	18?	29.98	761.5	30.05	763.2	25.5	—3.6	76.3	8	4	.....	1	.....	5	2	1	10	.....	.....	4	0.14	3.6
Warsaw	N. 52 13	E. 21 02	1.32 p.m.	392	119	29.52	749.7	29.94	760.6	48.2	9.0	64.1	.....	5	7	9	5	2	.....	1	2	.....	.....	8	.....	.....
Wilna	N. 54 41	E. 25 18	1.49 p.m.	388	118	29.43	747 5	29.86	758.4	43.2	6.2	68.7	2	6	5	8	5	3	.....	2	.....	.....	.....	8	1.87	47.5
Yeniseisk	N. 58 27	E. 92 06	6.16 p.m.	262?	80?	29.85	758.1	30.15	765.8	25.7	—3.5	73.5	2	2	12	6	4	.....	2	2	1	.....	.....	7	0.68	17.3
SCOTTISH.																										
Monach Lt. House	N. 57 31	W. 7 42	11.37 a.m.	150	46	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
SPANISH.																										
Barcelona	N. 41 23	E. 2 11	0.16 p.m.	98	30	30.00	762.1	30.11	764.8	59.9	15.5	59	1	1	4	4	8	10	2	1	.....	1708	2748	2	0.42	10.7
Bilbao	N. 43 15	W. 2 59	11.56 a.m.	52	16	30.21	767 4	30.27	768.9	58.8	14.9	66	4	13	3	3	1	1	2	4	.....	2084	3353	6	2.60	66.1
Burgos	N. 42 20	W. 3 46	11.53 a.m.	2821	860	27.23	691.6	30.23	767.8	52.2	11.2	56	12	2	5	.....	4	.....	.....	8	.....	5056	8137	4	0.64	16.2
Madrid	N. 40 25	W. 3 42	11.53 a.m.	2152	656	27.95	709.8	30.17	766.4	59.2	15.1	42.7	3	4	.....	8	3	1	3	4	5	764	1229	2	0.50	12.6
Murcia	N. 37 59	W. 1 10	0.03 p.m.	141	43	30.01	762.3	30.15	765.8	86.3	13.5	59.0	.....	8	2	7	2	5	6	1	.....	1854	2983	3	0.43	11.0
Santiago	N. 42 53	W. 8 28	11.34 a.m.	863	263	29.30	744.2	30.20	767.0	58.5	14.7	64.1	5	2	3	2	.....	.....	1	5	13	4865	8830	5	2.87	72.9
Sub-Series.																										
Havana	N. 23 08	W. 82 28	7.39 a.m.	62	19	30.07	763.8	30.14	765.5	69.9	21.1	83.1	2	.....	.....	.....	1	9	9	.....	10	.....	.....	2	0.30	7.5
Manilla	N. 14 35	E. 121 00	8.12 p.m.	56	17	29.92	760.0	29.98	761.4	79.7	26.5	69.8	1	.....	.....	2	3	9	15	1	.....	.....	.....	3	1.21	30.7
San Fernando	N. 36 28	W. 6 13	11.43 a.m.	95	29	30.13	765.3	30.23	767.8	64.2	17.9	48.9	1	1	7	2	2	3	10	5	.....	.....	.....	3	0.89	22.6
San Juan de Porto Rico	N. 18 30	W. 66 10	7.44 a.m.	82	25	30.04	763.0	30.13	765.3	73.8	23.2	85	1	.....	.....	.....	1	6	7	1	15	.....	.....	4	2.29	58.2
Tuguegarao	N. 17 37	E. 121 30	8.15 p.m.	125	38	29.89	759.2	30.02	762.5	74.8	23.8	81.4	.....	26	.....	2	2	1	.....	.....	.....	.....	.....	7	0.79	20.1

‖ Below sea level.

STATIONS.	Latitude.	Longitude.	Local Time.	Altitude of Barometer above sea.		Result of Simultaneous Observations for March, 1882.																			Average Cloudiness.	Total Precipitation.	
						Mean Barometer.				Mean Temperature.		Mean Rel. Humidity.	Wind.														
						Actual.		Reduced.					Directions.									Total Movement.					
				Feet.	Met'rs	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.		N	NW	W	SW	S	SE	E	NE	C	Miles	Kil.	0–10	Inch.	Mill.
SWEDISH.	° ′	° ′																									
Haparanda	N. 65 47	E. 24 03	1.44 p.m.	29	9	29.44	747.8	29.48	748.8	26.4	—3.1	80	5	8	3	1	9	3	.....	1	1	.....	.....	5	1.93	49.0
Umea	N. 63 50	E. 20 17	1.29 p.m.	39	12	29.47	748.4	29.52	749.7	35.1	1.7	77	7	8	1	10	1	2	.....	2	.....	.....	.....	6	1.26	32.0
Hernosand	N. 62 32	E. 17 57	1.20 p.m.	46	14	29.50	749.2	29.55	750.5	36.5	2.5	62	1	7	3	3	10	1	.....	1	5	.....	.....	6	0.35	8.9
Stockholm	N. 59 20	E. 18 04	1.20 p.m.	144	44	29.50	749.2	29.67	753.7	38.8	3.8	66	.....	4	10	8	3	1	.....	5	.....	.....	.....	7	1.21	30.8
Wisby	N. 57 39	E. 18 19	1.20 p.m.	52	16	29.67	753.6	29.73	755.1	39.0	3.9	79	4	5	15	5	.....	1	1	.....	.....	.....	.....	5	1.08	27.4
Sub-Series.																											
Upsala	N. 59 51	E. 17 37	1.19 p.m.	79	24	29.55	750.5	29.63	752.7	38.7	3.7	68.5	2	4	10	7	5	2	1	.....	.....	.....	.....	7	1.31	33.3
SWISS.																											
Geneva	N. 46 12	E. 6 08	0.33 p.m.	1338	408	28.69	728.6	30.12	765.1	51.1	10.6	52.6	17	2	2	4	2	.....	.....	4	.....	.....	.....	5	1.48	37.6
TURKISH.																											
Constantinople	N. 41 00	E. 28 59	2.04 p.m.	230	70	.....	.....	30.11	764.9	54.3	12.4	54	9	.....	.....	8	2	.....	3	9	.....	.....	.....	4	0.04	1.0
Valona	N. 40 27	E. 19 27	1.25 p.m.	105	32	.....	.....	30.08	764.0	62.6	17.0	.....	.....	6	3	12	9	1	.....	.....	.....	.....	.....	5	4.6	11.7
Sub-Series.																											
Beirut	N. 33 54	E. 35 28	2.30 p.m.	111	34	.....	.....	30.01	762.2	64.6	18.1	67.9	8	4	4	7	3	.....	.....	5	.....	.....	.....	4	1.32	33.5
UNITED STATES.																											
Albany	N. 42 40	W. 73 45	7.13 a.m.	75	23	30.01	762.2	30.10	764.5	36.8	2.7	71.5	5	5	8	2	7	.....	.....	1	3	5657	9104	7	1.79	45.5
Alpena	N. 45 05	W. 83 28	6.34 a.m.	609	185	29.39	746.5	30.09	764.3	24.1	—4.4	83.1	4	10	6	1	3	4	3	.....	.....	8908	14336	7	4.62	117.3
Atlanta	N. 33 45	W. 84 23	6.31 a.m.	1131	345	28.97	735.8	30.18	766.6	50.6	10.3	75.6	.....	10	7	3	3	.....	6	2	.....	7892*c*	12701*c*	6	4.16	105.7
Atlantic City	N. 39 22	W. 74 25	7.11 a.m.	13	4	30.09	764.3	30.10	764.5	38.7	3.7	78.7	8	6	4	2	4	3	2	2	.....	8190	13180	6	3.43	87.1
Augusta	N. 33 28	W. 81 54	6.41 a.m.	183	56	30.00	762.0	30.20	767.1	53.3	11.8	77.2	2	2	4	2	5	2	.....	5	9	3648	5871	4	6.80	172.7
Baltimore	N. 39 18	W. 76 38	7.02 a.m.	45	14	30.10	764.5	30.15	765.8	41.2	5.1	72.2	9	5	1	1	5	1	4	3	2	4466	7187	6	3.43	87.1
Barnegat	N. 39 48	W. 74 09	7.12 a.m.	20	6	30.08	764.0	30.10	764.5	38.3	3.5	80.2	7	7	5	1	5	2	3	1	.....	11532	18559	6	4.44	112.8
Bismarck	N. 46 48	W. 100 38	5.26 a.m.	1694	516	28.17	715.5	30.09	764.3	17.0	—8.3	83.0	1	12	1	.....	1	3	9	2	2	8887	14302	7	1.22	31.0
Boise City	N. 43 46	W. 116 06	4.24 a.m.	2750	838	27.26	692.4	30.18	766.6	28.6	—1.9	84.9	2	4	7	.....	1	8	2	1	6	4311	6938	5	1.54	39.1
Boston	N. 42 21	W. 71 04	7.23 a.m.	142	43	29.90	759.4	30.06	763.5	32.8	0.4	74.0	3	10	8	3	3	1	1	2	.....	9425	15168	5	3.35	85.1
Brownsville	N. 26 00	W. 97 30	5.38 a.m.	43	13	30.00	762.0	30.05	763.3	67.0	19.4	92.1	2	3	.....	.....	8	6	2	1	9	6173	9934	6	3.54	89.9
Buffalo	N. 42 53	W. 78 55	6.52 a.m.	696	212	29.30	744.2	30.09	764.3	31.6	—0.2	78.9	.....	2	7	8	3	4	1	6	.....	8811	14180	8	2.63	66.8
Burlington	N. 44 29	W. 73 13	7.15 a.m.	268	82	29.75	755.6	30.06	763.5	26.7	—2.9	72.1	7	5	1	.....	9	3	.....	4.	2	6533	10514	7	2.34	59.4
Cairo	N. 37 00	W. 89 12	6.11 a.m.	377	115	29.75	755.6	30.17	766.3	46.9	8.3	76.7	6	6	2	1	7	5	1	2	1	7797	12548	4	4.22	107.2
Campc	N. 32 22	W. 116 08	4.22 a.m.	2500	762	27.47	697.7	30.08	764.0	34.6	1.4	81.2	.....	1	2	7	2	2	16	1	.....	4543	7311	3	1.01	25.7
Camp Thomas	N. 32 04	W. 110 06	4.49 a.m.	2710	826	27.26	692.4	30.04	763.0	41.4	5.2	74.8	.....	2	2	2	4	5	.....	.....	16	.....	.....	2	0.70	17.8
Cape Henry	N. 36 56	W. 76 00	7.04 a.m.	16	5	30.13	765.3	30.15	765.8	46.6	8.1	73.6	2	6	1	8	5	2	4	3	.....	10953	17627	5	3.73	94.7
Cape May *f*	N. 38 56	W. 74 58	7.08 a.m.	27	8	30.04	763.0	30.07	763.8	42.3	5.7	73.1	2	6	3	1	4	2	2	3	2	11807	20001	7	4.90	124.5
Castroville *a*	N. 29 25	W. 98° 50	5.33 a.m.	780	238	29.27	743.4	30.10	764.5	58.2	14.6	65.0	2	6	3	.....	4	10	2	.....	3	3999*b*	6436*b*	8	2.38	60.5
Cedar Keys	N. 29 12	W. 83 02	6.36 a.m.	22	7	30.17	766.3	30.19	766.8	63.0	17.2	79.8	4	2	2	2	4	3	6	2	6	6446	10374	4	2.60	66.0
Champaign	N. 40 07	W. 88 14	6.15 a.m.	767	234	29.24	742.7	30.10	764.5	36.8	2.7	76.4	1	8	1	4	4	5	2	6	.....	12433	20018	6	4.54	115.3
Charleston	N. 32 45	W. 79 55	6.49 a.m.	52	16	30.08	764.0	30.14	765.5	57.0	13.9	81.4	.....	2	5	13	.....	.....	2	7	2	6809	10958	4	5.96	151.4
Charlotte	N. 35 13	W. 80 51	6.45 a.m.	808	246	29.26	743.2	30.14	765.5	48.2	9.0	74.7	1	2	5	4	3	1	3	12	.....	4885	7862	5	2.88	73.2
Chattanooga	N. 35 04	W. 85 15	6.27 a.m.	783	239	29.34	745.2	30.19	766.8	49.3	9.6	74.3	1	10	2	5	3	3	.....	5	2	5853	9419	5	4.56	115.8
Cheyenne	N. 41 12	W. 104 42	5.09 a.m.	6089	1856	23.96	608.5	30.14	765.5	26.1	—3.3	53.4	4	13	9	2	2	1	.....	.....	.....	10339	16639	2	0.06	1.5
Chicago	N. 41 52	W. 87 35	6.18 a.m.	661	201	29.33	745.0	30.07	763.8	35.0	1.7	84.6	2	9	5	2	4	4	2	3	.....	7778	12517	7	3.43	87.1
Chincoteague	N. 37 55	W. 75 20	7.06 a.m.	18	5	30.10	764.5	30.12	765.0	42.3	5.7	78.7	4	9	1	3	6	2	3	3	.....	10101	16256	5	3.11	79.0
Cincinnati	N. 39 06	W. 84 26	5.30 a.m.	620	189	29.45	748.0	30.14	765.5	44.0	6.7	66.8	4	6	5	2	2	5	4	2	1	6176	9939	6	6.17	156.7
Cleveland	N. 41 30	W. 81 47	6.42 a.m.	690	210	29.33	745.0	30.11	764.8	35.5	1.9	79.5	5	5	4	3	5	5	3	1	.....	8776	14123	8	3.82	97.0
Coleman City *g*	N. 31 55	W. 99 10	5.32 a.m.	1709	521	28.26	717.8	30.11	764.8	48.0	8.9	83.5	3	1	5	6	8	.....	.....	1	.....	5570	8964	5	1.09	27.7
Columbus	N. 39 57	W. 83 03	6.36 a.m.	805	245	29.22	742.2	30.11	764.8	39.5	4.2	71.8	2	9	4	6	2	4	3	1	.....	8250	13277	7	4.76	120.9
Concho	N. 31 22	W. 100 20	5.26 a.m.	1900	579	28.12	714.2	30.09	764.3	50.3	10.2	85.2	2	1	5	8	2	1	1	2	9	7401	11910	5	1.25	31.7
Davenport	N. 41 32	W. 90 30	6.06 a.m.	615	187	29.39	746.5	30.08	764.0	35.3	1.8	68.6	2	9	5	5	.....	2	4	4	.....	8960	14420	7	2.90	73.7
Dayton	N. 46 23	W. 117 50	4.16 a.m.	1660	506	28.32	719.3	30.13	765.3	34.6	1.4	78.8	.....	.....	.....	.....	15	1	8	2	2	3	4522	7277	5	1.97	50.0
Deadwood	N. 44 22	W. 103 34	5.14 a.m.	4600	1402	25.27	641.8	30.11	764.8	25.8	—3.4	74.0	.....	3	1	16	.....	.....	.....	4	7	3940	6341	4	1.29	32.8
Decatur *d*	N. 33 10	W. 97 30	5.38 a.m.	1129	344	.....	.....	.....	.....	53.3	11.8	66.0	4	5	3	2	5	6	1	1	.....	7066	11372	5	0.78	19.8
Del. Breakwater	N. 38 48	W. 75 05	7.08 a.m.	20	6	30.10	764.5	30.12	765.0	40.5	4.7	83.0	8	5	1	2	7	3	.....	5	.....	14345	23086	7	3.15	80.0
Denison	N. 33 50	W. 96 40	5.41 a.m.	767	234	29.26	743.2	30.08	764.0	54.0	12.2	79.7	3	.....	1	6	1	13	5	.....	1	7424	11948	2	0.20	5.1
Denver *a*	N. 39 45	W. 105 04	5.08 a.m.	5294	1614	24.69	627.1	30.13	765.3	33.1	0.6	54.7	3	.....	6	1	13	5	.....	1	.....	7424	11948	2	0.20	5.1
Des Moines	N. 41 35	W. 93 40	5.53 a.m.	849	259	29.14	740.1	30.10	764.5	32.4	0.2	71.2	9	6	2	2	3	4	1	3	1	7188	11568	6	2.28	57.9
Detroit *a*	N. 41 21	W. 83 07	6.36 a.m.	661	201	29.36	745.7	30.11	764.8	37.2	2.9	80.5	5	10	2	2	3	4	2	.....	.....	8800	14162	7	3.34	84.8
Dodge City	N. 37 39	W. 100 08	5.27 a.m.	2512	766	27.40	695.9	30.13	765.3	35.9	2.2	73.2	6	3	4	3	4	3	2	6	.....	10031	16143	4	0.24	6.1
Dubuque	N. 42 30	W. 90 44	6.05 a.m.	665	203	29.32	744.7	30.07	763.8	31.0	—0.6	74.6	.....	12	4	5	2	3	3	2	.....	5387	8669	8	1.49	37.8
Duluth	N. 46 48	W. 92 08	6.00 a.m.	644	184	29.33	745.0	30.07	763.8	23.4	—4.8	79.3	.....	7	3	9	.....	.....	.....	11	1	6564	10564	6	3.05	77.5
Eagle Pass	N. 28 40	W. 100 15	5.26 a.m.	780	238	29.28	743.7	30.10	764.5	57.8	14.3	86.0	3	3	.....	2	.....	16	1	1	5	4027	6481	7	0.77	19.6
Eagle Rock	N. 43 30	W. 112 04	4.40 a.m.	4650	1415	25.31	642.9	30.18	766.6	16.0	—8.9	77.8	12	.....	1	16	.....	.....	.....	.....	2	8607	13851	4	3.45	87.6
Eastport	N. 44 55	W. 66 54	7.40 a.m.	61	18	29.94	760.5	30.01	762.2	27.0	—2.8	75.1	5	8	3	3	6	.....	.....	6	.....	9794	15762	6	7.54	191.5
El Paso	N. 31 46	W. 106 32	5.02 a.m.	3760	1146	26.28	667.5	30.08	764.0	43.3	6.3	56.1	2	10	9	.....	.....	.....	6	1	3	5791	9320	2	0.38	9.7
Erie	N. 42 07	W. 80 10	6.47 a.m.	681	208	29.33	745.0	30.10	764.5	35.3	1.8	81.4	3	5	4	3	10	1	2	1	2	8950	14403	8	4.27	108.5
Escanaba	N. 45 46	W. 87 14	6.20 a.m.	612	186	29.36	745.7	30.07	763.8	25.0	—3.9	83.0	8	2	6	1	3	2	2	4	3	7052	11349	8	2.73	69.3
Florence	N. 33 03	W. 111 17	4.43 a.m.	1480	451	28.51	724.1	30.08	764.0	44.3	6.8	59.1	1	6	5	6	1	2	3	5	2	2848	4583	3	Imp.	Imp.
Fort Apache	N. 33 47	W. 109 58	4.49 a.m.	5050	1539	25.06	636.5	30.08	764.0	30.7	—0.7	67.9	.....	1	.....	.....	1	3	5	20	1	5656	9102	2	1.69	27.7
Fort Assinnaboine	N. 48 37	W. 109 43	4.49 a.m.	2710	826	27.14	689.3	30.15	765.8	21.1	—6.1	58.0	1	2	4	14	.....	2	.....	6	2	8768	14110	6	0.55	14.0
Fort Bennett	N. 44 42	W. 100 38	5.26 a.m.	1510	457	28.41	721.6	30.11	764.8	24.5	—4.2	77.2	2	2	8	3	.....	1	8	1	2	6	6975	11225	6	1.63	41.4
Fort Benton	N. 47 51	W. 110 40	4.45 a.m.	2700	823	27.18	690.4	30.16	766.1	23.0	—5.0	71.6	1	1	1	3	9	.....	.....	1	6	8429	13566	6	1.09	27.7
Fort Buford	N. 48 03	W. 103 58	5.12 a.m.	1900	579	28.01	711.4	30.15	765 8	17.5	—8.1	72.5	4	2	7	.....	4	2	6	4	2	8013	12895	8	0.69	17.5
Fort Custer	N. 45 48	W. 107 38	4.58 a.m.	3040	927	26.81	681.0	30.14	765.5	26.7	—2.9	73.1	6	4	4	4	4	3	.....	1	5	7455	11997	6	0.07	1.8
Fort Davis	N. 30 30	W. 103 45	5.13 a.m.	4940	1506	25.24	641.1	30.12	765.0	42.9	6.1	69.9	1	.....	2	4	10	1	1	2	10	4468	7190	4	0.03	0.8
Fort Elliott	N. 35 31	W. 100 27	5.28 a.m.	2650	808	27.24	691.9	30.07	763.8	40.5	4.7	55.1	5	6	.....	6	4	3	2	5	.....	9839	15834	4	0.53	13.5
Fort Gibson	N. 35 43	W. 95 16	5.48 a.m.	540	165	29.49	749.0	30.08	764.0	49.3	9.6	76.3	5	.....	.....	6	6	4	4	5	.....	7185	11563	5	2.99	75.9
Fort Grant	N. 32 25	W. 109 56	4.49 a.m.	4860	1481	25.25	641.3	30.08	764.0	41.8	5.4	44.2	2	1	1	8	.....	5	11	2	1	5189	8351	2	1.84	46.7
Fort Griffin *f*	N. 32 53	W. 99 21	5.33 a.m.	1260	384	28.79	731.3	30.14	765.5	47.7	8.7	76.8	7	1	.....	3	4	.....	.....	2	4	4156	6688	3	0.99	25.1
Fort Keogh	N. 46 17	W. 105 55	5.05 a.m.	2372	723	27.47	697.7	30.12	765.0	24.7	—4.1	65.1	3	5	3	6	.....	6	5	2	1	7783	12525	5	0.41	10.4
Fort Macon	N. 34 42	W. 76 40	7.01 a.m.	11	3	30.15	765.8	30.16	766.1	50.9	10.5	78.4	3	5	5	4	3	.....	.....	11	.....	10517	16925	6	9.36	237.7
Fort McKavett	N. 30 48	W. 99 58	5.28 a.m.	2240	683	27.85	707.4	30.17	766.3	53.0	11.7	77.9	1	.....	2	9	9	2	3	2	3	6753	10868	5	0.39	9.9
Fort Missoula	N. 46 50	W. 114 01	4.32 a.m.	3140	957	26.72	678.7	30.10	764.5	23.5	—4.7	82.7	4	11	.....	5	1	3	.....	7	.....	3208	5163	5	0.71	18.0
Fort St. Michael	N. 63 48	W. 162 00	1.20 a.m.	30	9	30.14	765.5	30.18	766.6	10.9	—11.7	94.7	6	2	2	7	3	7	3	.....	1	6617	10649	2	0.28	7.1
Fort Shaw	N. 47 29	W. 111 46	4.41 a.m.	3550	1082	26.33	668.8	30.13	765.3	22.2	—5.4	69.8	1	2	11	10	.....	1	.....	5	1	9857	15863	6	0.62	15.7
Fort Sill *a*	N. 34 40	W. 98 30	5.34 a.m.	1200	366	28.79	731.3	30.08	764.0	46.3	7.9	82.9	8	1	.....	.....	12	.....	.....	4	5	10018*b*	16122*b*	5	1.53	38.9
Fort Stevenson *f*	N. 47 36	W. 101 23	5.22 a.m.	1750	534	28.12	714.2	30.10	764.5	15.1	—9.4	79.7	3	8	1	1	.....	4	4	3	1	8262	13296	7	2.05	52.1
Fort Verde	N. 34 24	W. 111 53	4.38 a.m.	?	?	.....	.....	.....	.....	38.0	3.3	54.9	6	7	11	4	2	.....	1	.....	.....	.....	.....	2	0.01	0.3
Fort Washakie	N. 42 59	W. 108 43	4.50 a.m.	5580	1702	24.39	619.5	.....	.....	22.0	—5.6	66.8	6	6	7	3	1	4	3	.....	1	6041	9722	3	0.15	3.8
Fredericksburg	N. 30 20	W. 98 40	5.33 a.m.	1700	518	28.32	719.3	30.08	764.0	55.5	13.1	86.1	2	4	1	1	5	1	.....	2	5	5618	9041	7	2.01	51.1
Galveston	N. 29 18	W. 94 50	5.49 a.m.	48	15	30.06	763.5	30.10	764.5	65.1	18.4	82.9	4	1	1	1	15	4	3	2	.....	8668	13950	7	1.58	40.1
Grand Haven	N. 43 05	W. 86 18	6.23 a.m.	620	189	29.36	745.7	30.06	763.5	33.3	0.7	80.5	2	9	3	2	3	1	7	4	.....	10182	16386	8	5.85	148.6
Hatteras	N. 35 14	W. 75 30	7.06 a.m.	19	6	30.13	765.3	30.15	765.8	50.2	10.1	79.6	5	3	4	5	1	2	4	7	.....	13350	21494	6	9.67	245.6
Helena	N. 46 33	W. 112 02	4.40 a.m.	4100	1250	25.75	654.0	30.12	765.0	26.0	—3.3	63.5	1	7	7	12	.....	.....	.....	3	1	5805	9342	6	0.31	7.9
Henrietta *a*	N. 33 42	W. 98 00	5.36 a.m.	980	300	29.10	739.1	30.14	765.5	49.9	9.9	82.1	5	1	1	3	11	1	2	1	5	7132*b*	11478*b*	6	1.84	46.7
Huron	N. 44 21	W. 98 17	5.35 a.m.	1305	398	28.63	727.2	30.11	764.8	24.7	—4.1	73.2	5	7	2	.....	2	11	4	.....	.....	11300	18185	8	0.80	20.3
Indianapolis	N. 39 47	W. 86 06	6.24 a.m.	753	229	29.27	743.4	30.11	764.8	39.5	4.2	76.3	5	6	3	1	5	6	4	.....	1	5734	9229	6	6.11	155.2
Indianola	N. 28 32	W. 96 38	5.42 a.m.	26	8	30.05	763.3	30.08	764.0	64.9	18.3	87.8	3	2	1	1	10	6	3	4	1	11616	18694	6	2.30	58.4
Jacksboro	N. 33 10	W. 98 00	5.35 a.m.	1120	341	28.89	733.8	30.10	764.5	51.2	10.7	79.8	5	1	1	10	5	4	2	1	2	6867	11051	6	0.79	20.1
Jacksonville	N. 30 24	W. 81 40	6.41 a.m.	43	13	30.14	765.5	30.19	766.8	60.1	15.6	78.2	4	3	1	9	4	.....	2	5	3	6050	9736	4	0.89	22.6
Keokuk	N. 40 23	W. 91 25	6.02 a.m.	618	188	29.38	746.2	30.08	764.0	36.0	2.2	74.3	1	7	4	4	1	3	2	5	4	6214	10000	6	3.30	83.8
Key West	N. 24 32	W. 81 48	6.41 a.m.	20	6	30.14	765.5	30.16	766.1	72.6	22.6	76.0	4	.....	.....	.....	1	3	3	11	9	7199	11586	4	0.01	0.3
KittyHawk	N. 36 00	W. 75 23	7.05 a.m.	22	7	30.14	765.5	30.16	766.1	47.6	8.7	79.3	3	4	6	4	3	1	5	5	.....	12840	20664	5	6.49	164.8
Knoxville	N. 35 56	W. 83 58	6.32 a.m.	980	299	29.12	739.6	30.18	766.6	45.3	7.4	80.1	2	3	4	4	2	.....	2	10	4	5318	8858	5	4.35	110.5
La Crosse	N. 43 48	W. 91 23	6.03 a.m.	725	221	29.23	742.4	30.05	763.3	31.3	—0.4	74.7	5	5	4	4	5	3	3	1	1	7175	11547	7	2.37	60.2
La Mesilla	N. 32 17	W. 106 48	5.01 a.m.	3900	1189	26.13	663.7	30.08	764.0	38.7	3.7	61.8	4	2	.....	3	.....	1	.....	.....	21	2757	4437	2	0.41	10.4
Leavenworth	N. 39 19	W. 94 57	5.48 a.m.	842	256	29.17	740.9	30.11	764.8	39.2	4.0	70.0	5	7	1	2	7	4	1	3	1	7696	12383	5	1.15	29.2
Lewiston	N. 46 25	W. 116 59	4.20 a.m.	780	238	29.26	743.2	30.12	765 0	36.8	2.7	62.2	.....	.....	.....	3	.....	3	3	16	4	2	3376	5428	5	0.67	17.0

STATIONS.	Latitude.	Longitude.	Local Time.	Altitude of Barometer above sea		Result of Simultaneous Observations for March, 1882.																		Average Cloudiness.	Total Precipitation.	
						Mean Barometer.				Mean Temperature.		Mean Rel. Humidity.	Wind.													
						Actual.		Reduced.					Directions.									Total Movement.				
				Feet.	Met'rs	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.		N	NW	W	SW	S	SE	E	NE	C	Miles	Kil.	0–10	Inch.	Mill.
U. S.—Continued.	° ′	° ′																								
Little Rock	N. 34 40	W. 92 12	5.59 a.m.	298	91	29.78	756.4	30.11	764.8	53.5	11.9	76.6	5	1	3	5	5	2	.....	6	4	5245	8441	9	6.25	158.8
Los Angeles	N. 34 03	W. 118 16	4.15 a.m.	371	113	29.74	755.4	30.14	765.5	47.5	8.6	74.4	3	5	2	1	1	4	4	8	3	4431	7131	3	2.66	67.6
Louisville	N. 38 18	W. 85 52	6.25 a.m.	530	162	29.52	749.8	30.11	764.8	44.8	7.1	73.9	2	6	6	1	7	2	4	2	1	8128	13080	6	5.85	148.6
Lynchburg	N. 37 30	W. 79 02	6.52 a.m.	652	199	29.42	747.3	30.14	765.5	44.1	6.7	67.1	1	4	4	7	1	.....	3	4	7	3370	5423	6	4.33	110.0
Madison	N. 43 03	W. 89 30	6.10 a.m.	949	289	29.00	736.6	30.08	764.0	30.3	—0.9	78.6	6	6	6	3	.....	4	4	2	.....	9734	15665	7	4.73	120.1
Marquette	N. 46 33	W. 87 36	6.19 a.m.	673	205	29.30	744.2	30.07	763.8	25.4	—3.7	77.9	2	6	6	5	2	5	5	.....	.....	7095	12384	8	2.75	69.8
Mason *a*	N. 30 42	W. 99 02	5.32 a.m.	1620	494	28.42	721.9	30.10	764.5	55.8	13.2	78.6	3	4	1	8	10	1	.....	2	1	6082	9788	6	1.19	30.2
Memphis	N. 35 07	W. 90 07	6.08 a.m.	321	98	29.79	756.7	30.14	765.5	52.6	11.4	75.8	1	4	2	5	2	4	.....	3	10	3703	4945	5	9.10	231.1
Milwaukee	N. 43 03	W. 87 54	6.17 a.m.	697	212	29.28	743.7	30.06	763.5	32.6	0.3	83.8	3	6	5	6	.....	6	3	2	.....	10641	17125	8	3.90	99.1
Mobile	N. 30 42	W. 87 59	6.16 a.m.	41	12	30.12	765.0	30.16	766.1	59.7	15.4	85.1	6	1	1	3	3	1	.....	4	12	4085	6574	4	5.13	130.3
Montgomery	N. 32 22	W. 86 23	6.23 a.m.	219	66	29.93	760.2	30.17	766.3	55.3	12.9	80.7	3	4	4	4	2	5	2	2	5	4311	6938	5	6.92	175.8
Moorhead	N. 46 52	W. 96 40	5.41 a.m.	923	281	29.00	736.6	30.08	764.0	12.9	—10.6	84.4	10	2	1	2	3	3	2	2	6	10215	16439	6	2.63	71.9
Morgantown	N. 39 36	W. 79 52	6.48 a.m.	963	293	29.08	738.6	30.14	765.5	41.7	5.4	75.3	2	1	4	7	1	2	1	7	6	6209	9992	7	7.18	182.4
Mt. Washington	N. 44 16	W. 71 16	7.22 a.m.	6279	1914	23.48	596.4	30.00	762.0	11.5	—11.4	81.1	4	19	5	1	1	.....	.....	1	.....	26488	42628	5	14.52	368.8
Nashville	N. 36 11	W. 86 53	6.21 a.m.	507	154	29.59	751.6	30.15	765.8	48.9	9.4	73.6	6	7	1	2	3	3	2	1	6	4133	6651	6	9.36	237.7
New Haven	N. 41 17	W. 72 57	7.16 a.m.	107	32	29.97	761.2	30.09	764.3	34.1	1.2	74.1	7	6	3	2	3	1	.....	4	5	6749	10861	7	3.59	91.2
New London	N. 41 22	W. 72 09	7.19 a.m.	47	14	30.05	763.3	30.10	764.5	36.3	2.4	70.3	9	7	4	4	3	2	.....	2	.....	7516	12096	6	3.56	90.4
New Orleans	N. 29 58	W. 90 07	6.08 a.m.	52	16	30.07	763.8	30.13	765.3	63.7	17.6	79.9	6	.....	2	2	8	7	1	5	.....	5022	9048	4	0.92	23.4
Newport	N. 41 29	W. 71 19	7.23 a.m.	44	13	30.02	762.5	30.07	763.8	35.4	1.9	74.7	6	7	5	4	4	.....	2	2	1	8875	14283	6	4.23	107.4
New River *e*	N. 34 30	W. 77 23	6.58 a.m.	.....	.....	.....	.....	.....	.....	49.3	9.6	78.0	6	3	4	3	3	1	1	5	.....	.....	.....	6	6.67	169.4
New Shoreham	N. 41 10	W. 71 37	7.22 a.m.	27	8	30.04	763.0	30.07	763.8	36.2	2.3	74.2	6	8	2	4	1	3	.....	5	2	13887	22337	5	5.39	136.9
New York	N. 40 43	W. 74 00	7.12 a.m.	164	50	29.93	760.2	30.11	764.8	36.6	2.6	78.2	3	8	8	1	6	1	1	3	.....	8176	13158	6	2.32	58.9
Norfolk	N. 36 51	W. 76 19	7.03 a.m.	30	9	30.12	765.0	30.15	765.8	47.8	8.8	71.4	3	7	2	6	2	3	4	4	.....	6288	10119	6	3.33	84.6
North Platte	N. 41 08	W. 100 53	5.24 a.m.	2841	866	27.08	687.8	30.14	765.5	31.4	—0.3	70.8	2	12	4	1	.....	3	2	1	6	9495	15280	4	0.04	1.0
Olympia	N. 47 02	W. 122 56	3.56 a.m.	36	11	30.06	763.5	30.10	764.5	37.5	3.1	87.4	5	1	1	1	19	.....	.....	3	1	3826	6157	7	2.24	56.9
Omaha	N. 41 16	W. 96 00	5.45 a.m.	1113	339	28.86	733.0	30.11	764.8	34.1	1.2	72.1	4	8	2	2	3	9	.....	3	.....	10002	16095	5	0.79	20.1
Ooglaamie	N. 71 17	W. 156 40	1.41 a.m.	17	5	30.06	763.5	30.08	764.0	—8.8	—22.7	82.1	1	2	10	3	4	3	6	2	.....	11838	19051	5	0.51	13.0
Oswego	N. 43 29	W. 76 35	7.01 a.m.	304	93	29.72	754.9	30.06	763.5	32.4	0.2	73.5	4	5	5	3	7	4	.....	3	.....	8052	12958	6	3.28	83.3
Palestine *g*	N. 31 45	W. 95 40	5.45 a.m.	523	162	29.56	750.8	30.13	765.3	57.0	13.9	75.3	4	2	1	2	15	2	.....	.....	.....	6690	10766	5	2.37	60.2
Pensacola	N. 30 25	W. 87 12	6.19 a.m.	30	9	30.14	765.5	30.17	766.3	60.4	15.8	86.2	7	2	2	5	5	3	3	2	2	5938	9556	4	3.07	78.0
Philadelphia	N. 39 57	W. 75 10	7.07 a.m.	92	28	30.03	762.7	30.13	765.3	40.6	4.8	70.4	2	8	4	1	1	4	1	5	.....	6851	11025	6	3.57	90.7
Pikes Peak	N. 38 48	W. 104 59	5.07 a.m.	14134	4308	17.56	446.0	30.16	766.1	4.3	—15.4	81.9	.....	5	3	19	1	1	.....	1	1	19552	31465	4	2.65	67.3
Pioche	N. 37 57	W. 114 26	4.30 a.m.	6110	1862	24.06	611.1	30.20	767.1	28.7	—1.8	60.0	6	9	1	2	11	1	.....	1	.....	7086	11404	3	0.30	7.6
Pittsburg	N. 40 32	W. 80 02	6.48 a.m.	762	232	29.27	743.4	30.12	765.0	38.7	3.7	73.6	4	6	5	1	4	4	4	2	1	6104	9823	8	3.78	96.0
Port Eads	N. 29 00	W. 89 15	6.11 a.m.	7	2	30.14	765.5	30.16	766.1	64.1	17.8	89.2	4	1	1	1	8	6	6	4	.....	8248	13274	3	1.81	46.0
Port Huron	N. 42 58	W. 82 29	6.38 a.m.	633	193	29.36	745.7	30.08	764.0	30.5	—0.8	84.6	2	10	3	3	4	2	2	3	2	7593	12220	8	5.25	133.4
Portland, Maine	N. 43 40	W. 70 16	7.27 a.m.	45	14	29.98	761.5	30.03	762.7	33.0	0.6	69.8	5	12	1	4	3	.....	1	5	.....	7026	12273	6	3.97	100.8
Portland, Oregon	N. 45 30	W. 122 28	3.57 a.m.	67	20	30.05	763.3	30.12	765.0	38.7	3.7	86.3	1	6	1	1	10	2	.....	1	9	4127	6642	6	2.53	64.3
Portsmouth	N. 35 02	W. 76 04	7.04 a.m.	40	12	.....	.....	.....	.....	50.8	10.4	73.5	3	6	3	6	2	.....	1	10	.....	13086	22025	5	0.35	161.3
Prescott	N. 34 29	W. 112 13	4.38 a.m.	5340	1628	24.76	628.9	30.10	764.5	31.2	—0.4	56.9	4	.....	2	.....	22	.....	1	2	.....	5891	9480	1	0.0	0.0
Provincetown	N. 42 03	W. 70 12	7.27 a.m.	26	8	30.02	762.5	30.05	763.3	34.6	1.4	81.8	6	7	3	3	5	3	2	2	.....	10062	16193	6	4.55	115.6
Punta Rassa	N. 26 36	W. 82 10	6.40 a.m.	13	4	30.15	765.8	30.16	766.1	65.5	18.6	80.0	4	2	.....	1	3	1	12	8	.....	7464	12012	2	0.15	3.8
Red Bluff	N. 40 10	W. 122 16	3.59 a.m.	350	106	29.72	754.9	30.10	764.5	44.9	7.2	77.1	11	6	.....	1	2	6	1	1	3	5537	8911	3	2.67	67.8
Rio Grande City	N. 26 22	W. 98 45	5.33 a.m.	230	70	29.83	757.7	30.07	763.8	64.3	17.9	82.1	1	3	1	1	3	13	3	3	3	4036	7461	5	1.91	48.5
Rochester	N. 43 08	W. 77 51	6.58 a.m.	621	189	29.38	746.2	30.08	764.0	30.8	—0.7	84.4	1	7	6	1	6	3	3	.....	4	9938	15993	7	1.74	44.2
Roseburg	N. 43 10	W. 123 16	3.55 a.m.	511	156	29.59	751.6	30.15	765.8	37.9	3.3	85.8	1	3	1	4	2	.....	8	.....	12	2279	3668	6	2.83	71.9
Sacramento	N. 38 35	W. 121 31	4.02 a.m.	70	21	30.02	762.5	30.10	764.5	46.8	8.2	77.9	7	4	.....	3	2	12	1	.....	2	6396	10293	4	3.78	96.0
Saint Louis	N. 38 37	W. 90 15	6.07 a.m.	568	173	29.49	749.0	30.12	765.0	41.2	5.1	77.8	6	7	2	1	7	4	1	3	.....	8950	14403	5	3.49	88.6
Saint Paul	N. 44 53	W. 93 05	5.56 a.m.	811	247	29.12	739.6	30.04	763.0	27.5	—2.5	83.0	3	3	8	4	.....	5	4	3	1	7559	12165	6	3.25	82.5
Saint Vincent	N. 48 58	W. 97 03	5.40 a.m.	804	245	29.16	740.7	30.10	764.5	6.2	—14.3	94.7	4	9	1	1	4	7	3	1	1	10009	16108	6	1.66	42.2
Salt Lake City	N. 40 46	W. 111 54	4.40 a.m.	4348	1325	25.66	651.8	30.18	766.6	31.8	—0.1	56.6	3	3	1	1	.....	7	2	2	12	3810	6132	4	1.12	28.4
San Antonio	N. 29 28	W. 98 22	5.34 a.m.	673	205	29.38	746.2	30.09	764.3	58.0	14.4	82.8	5	2	.....	.....	5	5	1	7	6	4283	6893	7	4.24	107.7
San Diego	N. 32 32	W. 117 08	4.20 a.m.	67	20	30.02	762.5	30.09	764.3	49.6	9.8	80.5	10	1	.....	1	2	1	6	9	1	4992	8034	4	1.02	25.9
Sandusky	N. 41 27	W. 82 43	6.37 a.m.	639	195	29.38	746.2	30.10	764.5	37.0	2.8	78.4	4	7	4	6	3	5	.....	2	.....	12314	19817	8	4.02	102.1
Sandy Hook	N. 40 28	W. 74 01	7.12 a.m.	28	8	30.07	763.8	30.11	764.8	37.9	3.3	78.4	4	9	3	4	3	3	1	4	.....	12741	20504	6	4.00	101.5
San Francisco	N. 37 48	W. 122 26	3.58 a.m.	60	18	30.04	763.0	30.10	764.5	49.4	9.7	75.6	1	4	9	5	5	3	.....	3	1	7042	11333	4	3.45	87.6
Santa Fé	N. 35 41	W. 106 10	5.04 a.m.	7106	2166	23.19	589.0	30.17	766.3	34.6	1.4	48.3	12	1	1	2	4	2	4	5	.....	7250	11668	3	0.23	5.8
Savannah	N. 32 05	W. 81 08	6.44 a.m.	87	26	30.08	764.0	30.18	766.6	57.4	14.1	72.2	5	5	7	4	4	1	2	1	1	6366	10245	4	4.19	106.4
Shreveport	N. 32 30	W. 93 45	5.54 a.m.	227	69	29.87	758.7	30.12	765.0	56.7	13.7	85.0	4	2	2	3	12	2	2	1	1	5135	8264	6	3.16	80.3
Silver City	N. 32 48	W. 108 15	4.55 a.m.	5890	1795	24.26	616.2	30.04	763.0	33.8	1.0	52.6	.....	13	4	2	2	5	1	.....	6	3324	5349	2	1.17	29.7
Sitka	N. 57 03	W. 135 19	3.07 a.m.	63	19	29.84	757.9	29.91	759.7	28.6	—1.9	71.2	.....	2	1	2	1	3	8	10	4	8200	13196	4	3.53	89.7
Smithville	N. 33 55	W. 78 01	6.56 a.m.	34	10	30.13	765.3	30.17	766.3	51.7	10.9	82.8	2	5	5	4	2	1	2	10	.....	8093	13024	5	7.81	198.4
Spokane Falls	N. 47 39	W. 117 24	4.18 a.m.	1910?	582?	28.00	711.2	30.13	765.3	30.4	—0.9	80.5	.....	1	2	11	6	1	3	2	5	4924	7924	5	1.04	26.4
Springfield, Ill	N. 39 48	W. 89 48	6.10 a.m.	644	196	29.39	746.5	30.11	764.8	39.5	4.2	69.0	4	7	2	1	6	6	2	1	1	8157	13127	5	4.92	125.0
Springfield, Mass.	N. 42 06	W. 72 36	7.18 a.m.	120	37	29.95	760.7	30.09	764.3	34.7	1.5	70.6	6	6	3	1	10	.....	.....	4	1	5342	8598	6	2.98	75.7
Springfield, Mo	N. 37 12	W. 93 18	5.55 a.m.	1351	412	28.63	727.2	30.19	766.8	43.6	6.4	77.8	2	3	2	3	9	7	1	4	.....	8018	13869	6	3.19	81.0
Stockton *c*	N. 30 50	W. 102 50	5.16 a.m.	3010	917	27.03	686.5	30.11	764.8	45.6	7.0	78.6	1	.....	2	11	6	2	.....	.....	6	5898	9492	2	0.16	4.1
Thatcher's Island	N. 42 36	W. 70 34	7.26 a.m.	48	15	29.99	761.7	30.05	763.3	33.8	1.0	80.8	2	10	2	6	4	1	3	3	.....	13139	21145	6	3.60	91.4
Toledo	N. 41 40	W. 83 32	6.34 a.m.	651	198	29.36	745.7	30.09	764.3	37.2	2.9	75.5	3	4	9	4	3	16	3	5	.....	8019	12905	7	3.02	76.7
Tucson	N. 32 14	W. 110 56	4.44 a.m.	2369	722	27.59	700.8	30.05	763.3	40.1	7.8	66.2	.....	.....	.....	2	9	16	1	.....	3	3085	4965	2	0.72	18.3
Umatilla	N. 45 55	W. 119 21	4.11 a.m.	340	103	29.77	756.1	30.15	765.8	37.4	3.0	76.4	2	1	6	7	3	8	2	1	1	8602	12878	6	0.32	8.1
Uvalde *b*	N. 29 13	W. 99 40	5.29 a.m.	930	283	29.09	738.9	30.07	763.8	59.7	15.4	86.3	3	.....	.....	.....	1	12	3	1	9	2843c	4575c	8	1.41	35.8
Vicksburg	N. 32 23	W. 90 54	6.04 a.m.	244	74	29.89	759.2	30.15	765.8	58.2	14.6	78.1	2	6	.....	1	8	7	4	3	.....	4003	7408	6	7.41	188.2
Visalia	N. 36 20	W. 119 16	4.11 a.m.	348	106	29.72	754.9	30.10	764.5	45.5	7.5	77.6	2	5	2	2	5	8	4	2	1	3499	5631	3	1.47	37.3
Washington, D. C.	N. 38 53	W. 77 01	7.00 a.m.	106	32	30.03	762.7	30.15	765.8	40.2	4.6	79.6	3	11	1	.....	5	2	3	2	4	4723	7601	6	3.75	95.2
W. Las Animas	N. 38 04	W. 103 07	5.16 a.m.	3905	1190	26.03	661.2	30.11	764.8	29.1	—1.6	62.7	1	7	3	.....	.....	4	4	9	7232	11638	2	0.10	2.5
Wickenburg *c*	N. 33 58	W. 112 42	4.37 a.m.	?	?	.....	.....	.....	.....	38.3	3.5	64.5	...	10	1	1	1	.....	.....	.....	15	.....	.....	2	0.0	0.0
Williamsport	N. 41 15	W. 77 03	7.00 a.m.	561	171	29.49	749.0	30.12	765.0	36.4	2.4	71.2	2	11	3	.....	5	2	2	4	2	8071	12981	7	3.48	88.4
Wilmington	N. 34 11	W. 78 10	6.56 a.m.	52	16	30.11	764.8	30.17	766.3	52.7	11.5	76.8	4	3	5	7	.....	.....	7	4	1	6046	9730	6	7.09	180.1
Winnemucca *a*	N. 41 00	W. 119 21	4.17 a.m.	4327	1319	25.65	651.5	30.15	765.8	26.7	—2.9	72.8	1	.....	2	12	1	2	1	12	.....	7249	11666	3	1.22	31.0
Yankton	N. 42 45	W. 97 30	5.38 a.m.	1228	374	28.72	729.5	30.11	764.8	28.7	—1.8	76.2	3	8	2	1	1	5	6	3	2	7713	12413	6	0.06	1.5
Yuma	N. 32 44	W. 114 36	4.30 a.m.	141	43	29.87	758.7	30.02	762.5	51.7	10.9	54.8	9	4	.....	5	3	1	1	5	3	4081	7533	1	0.0	0.0
Sub-Series.																										
Bogota	N. 4 36	W. 74 14	7.41 a.m.	8655	2638	22.04	559.8	.....	.....	54.1	12.3	80	.....	4	.....	4	2	2	.....	2	17	2633	4237	8	3.51	89.2
Bridgetown	N. 13 12	W. 59 35	8.10 a.m.	?	?	30.07	763.8	30.08	764.0	78.0	25.6	82.7	3	.....	.....	.....	.....	.....	26	2	.....	.....	.....	4	0.04	1.0
Buenaventura	N. 3 50	W. 76 55	7.00 a.m.	18	5	29.99	761.7	30.01	762.2	77.0	25.0	90.8	4	.....	.....	2	14	2	.....	2	7	.....	.....	10	19.50	495.3
Guadeloupe	N. 16 12	W. 61 40	8.01 a.m.	?	?	29.95	760.7	29.97	761.2	75.3	24.1	87.1	.....	.....	.....	.....	.....	1	25	5	.....	.....	.....	4	4.13	104.9
Havana	N. 23 09	W. 82 22	6.39 a.m.	50	15	30.14	765.5	30.18	766.6	74.2	23.4	77.2	3	.....	.....	.....	2	17	.....	2	7	2510	4039	4	0.20	5.1
Kingston	N. 18 58	W. 76 48	7.01 a.m.	10	3	30.09	764.3	30.10	764.5	71.	21.7	84	24	.....	.....	.....	.....	.....	1	.....	6	2447	3938	2	1.23	31.2
Navassa	N. 18 25	W. 75 03	7.43 a.m.	77	23	30.12	765.0	30.20	767.1	76.0	24.4	75.9	.....	.....	.....	.....	.....	.....	11	20	.....	.....	.....	8	0.71	18.0
Paranaribo	N. 5 50	W. 55 13	8.27 a.m.	6	2	30.04	763.0	30.04	763.0	78.0	25.6	85.8	.....	.....	.....	.....	.....	.....	27	4	.....	.....	.....	8	9.01	244.1
Puerto Berrio	N. 6 32	W. 74 28	7.10 a.m.	542	165	29.50	749.3	29.96	761.0	86.	30.0	83.7	6	.....	.....	.....	.....	1	.....	2	22	.....	.....	9	10.81	274.6
Rivas *c*	N. 11 26	W. 85 47	6.25 a.m.	150	46	.....	.....	.....	.....	.....	.....	93.3	.....	.....	.....	.....	.....	1	.....	27	.....	.....	.....	2	inap.	inap.
Santiago de Cuba	N. 19 55	W. 75 50	7.04 a.m.	21	6	30.05	763.3	30.08	764.0	73.9	23.3	73.4	14	1	.....	.....	.....	.....	.....	1	15	.....	.....	2	1.64	41.7
York Factory	N. 57 02	W. 92 26	5.58 a.m.	51	15	30.29	769.4	30.34	770.6	—14.8	—26.0	.....	10	9	3	2	4	1	1	1	.....	.....	.....	3	0.36	9.1

Ocean Square Data for March, 1882.

Location of Centre of each Square.	No. of days.	No. of ob's.	Barometer.		Temperature.		Wind Frequency.										Wind force 0–10.
			Inch.	Mill.	Fah.	Cent.	N.	NW.	W.	SW.	S.	SE.	E.	NE.	Calm.	Blank.	
° °																	
N. 2.5 W. 37.5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
2.5 42.5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
2.5 47.5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
7.5 27.5	10	10	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
7.5 32.5	6	7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
7.5 37.5	3	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
7.5 42.5	4	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
12.5 22.5	2	2	30.01	762.2	77.8	25.4	.....	.....	.....	.....	.....	.....	.....	30	.....	1	1.9a
12.5 27.5	6	7	30.06 e	763.5 e	76.7d	24.8d	.....	.....	.....	.....	.....	.....	.....	26	.....	5	2.0 e
12.5 32.5	3	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
12.5 37.5	5	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
12.5 42.5	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
12.5 47.5	4	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
12.5 52.5	3	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
12.5 57.5	12	13	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
17.5 22.5	3	3	30.09	764.3	73.8	23.2	.....	.....	.....	.....	.....	.....	.....	31	.....	.....	2.5
17.5 27.5	5	5	30.11 d	764.8 d	73.4c	23.0c	.....	.....	.....	.....	.....	.....	3	25	.....	3	2.4 c
17.5 37.5	5	6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
17.5 42.5	2	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
17.5 47.5	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
17.5 52.5	4	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
17.5 57.5	4	6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
22.5 22.5	5	6	30.16	766.1	70.2	21.2	.....	.....	.....	.....	.....	.....	1	30	.....	.....	2.0
22.5 27.5	.....	.....	30.19	766.8	70.3	21.3	.....	.....	.....	.....	.....	5	19	7	.....	.....	1.4
22.5 32.5	.....	.....	30.19 d	766.8 d	70.5c	21.4c	.....	.....	.....	1	.....	11	9	6	.....	4	2.0 d
22.5 37.5	12	12	30.20 g	767.1 g	70.9 f	21.6f	2	.....	.....	1	.....	10	5	5	1	7	1.8 g
22.5 52.5	7	7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
22.5 57.5	5	7	30.17 j	766.3 j	72.3m	22.4m	1	3	.....	.....	1	1	4	11	.....	10	1.8 j
22.5 62.5	14	17	30.14 d	765.5 d	72.4g	22.4g	1	4	.....	.....	.....	2	4	16	.....	4	2.2 d
22.5 67.5	11	15	30.17 c	766.3 c	72.6c	22.6c	1	1	.....	1	.....	1	10	14	.....	3	1.7 c
22.5 72.5	.....	.....	30.18 c	766.6 c	72.6a	22.6a	1	.....	.....	.....	.....	3	11	15	.....	1	1.8 a
27.5 22.5	3	3	30.26	768.6	67.3	19.6	.....	.....	.....	.....	.....	2	11	18	.....	.....	1.7
27.5 27.5	.....	.....	30.26	768.6	66.8	19.3	.....	.....	.....	.....	.....	12	14	5	.....	.....	1.6
27.5 32.5	.....	.....	30.25	768.3	67.5	19.7	.....	.....	.....	2	1	18	6	4	.....	.....	2.0
27.5 37.5	5	5	30.22 b	767.6 b	67.4b	19.7b	2	1	.....	1	6	14	3	1	.....	3	1.9 c
27.5 42.5	9	10	30.21 f	767.3 f	67.3g	19.6g	1	.....	.....	3	3	10	3	4	.....	7	1.4 f
27.5 47.5	1	1	30.16 j	766.1 j	67.0j	19.4j	1	2	.....	3	3	4	3	4	.....	11	1.5 k
27.5 52.5	2	2	30.15 j	765.8 j	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
27.5 57.5	5	5	30.14 j	765.5 j	.....	.....	2	5	2	1	2	3	3	3	.....	10	1.9 j
27.5 62.5	9	9	30.14 d	765.5 d	66.8f	19.3f	5	7	2	1	1	3	4	3	.....	5	2.3 e
27.5 67.5	10	10	30.18 c	766.6 c	65.1c	18.4c	4	8	.....	1	2	2	.....	.....	.....	.....	2.1 d
27.5 72.5	15	25	30.20	767.1	67.9	19.9	6	7	.....	4	.....	4	4	6	.....	.....	1.8
27.5 77.5	9	14	30.20	767.1	66.9	19.4	3	2	6	4	7	1	8	.....	.....	.....	1.6
32.5 12.5	3	3	30.23	767.8	64.9	18.3	5	2	.....	1	.....	2	1	20	.....	.....	1.6
32.5 17.5	4	4	30.28	769.1	64.7	18.2	3	2	.....	8	2	5	3	8	.....	.....	1.3
32.5 22.5	1	1	30.34	770.6	64.6	18.1	2	.....	.....	1	2	9	4	13	.....	.....	1.3
32.5 27.5	3	3	30.34	770.6	64.1	17.8	.....	1	.....	3	2	13	8	4	.....	.....	1.5
32.5 32.5	3	3	30.31 a	769.9 a	64.7a	18.2a	.....	2	.....	4	5	14	2	4	.....	.....	1.9 a
32.5 37.5	16	16	30.25 a	768.3 a	64.3a	17.9a	3	1	.....	4	11	8	.....	1	2	.....	2.1 a
32.5 42.5	8	8	30.21 b	767.3 b	63.6a	17.6a	1	2	2	6	7	7	1	3	.....	2	2.2 b
32.5 47.5	7	9	30.14 c	765.5 c	62.4b	16.9b	3	5	2	3	7	4	2	2	.....	3	2.2 c
32.5 52.5	11	13	30.12 d	765.0 d	61.6d	16.4d	1	6	1	7	3	3	2	4	.....	4	2.4 d
32.5 57.5	8	8	30.11 b	764.8 b	61.0c	16.1c	2	11	3	2	4	2	1	3	.....	3	2.4 c
32.5 62.5	5	5	30.12 c	765.0 c	60.8c	16.0c	5	9	1	.....	5	4	1	3	.....	3	2.5 c
32.5 67.5	9	9	30.14 b	765.5 b	60.6b	15.9b	4	12	.....	5	3	1	2	1	.....	3	2.5 c
32.5 72.5	22	46	30.17	766.3	60.5	15.8	5	8	1	8	1	2	.....	6	.....	.....	2.5
32.5 77.5	21	35	30.17	766.3	59.1	15.1	3	7	.....	9	2	2	1	7	.....	.....	1.8
37.5 12.5	5	5	30.26	768.6	60.3	15.7	11	4	.....	.....	.....	4	2	10	.....	.....	2.0
37.5 17.5	1	1	30.32	770.1	61.2	16.2	7	4	2	7	1	3	2	5	.....	.....	1.8
37.5 22.5	5	6	30.37	771.4	60.7	15.9	4	7	1	3	5	7	.....	4	.....	.....	1.4
37.5 27.5	6	6	30.37	771.4	60.5	15.8	1	2	2	4	14	6	.....	1	1	.....	1.3
37.5 32.5	7	7	30.31	769.9	60.4	15.8	.....	1	2	11	10	4	.....	3	.....	.....	2.3
37.5 37.5	6	6	30.22	767.6	58.9	14.9	2	4	1	11	9	2	1	1	.....	.....	2.4
37.5 42.5	7	7	30.16 a	766.1 a	57.1	13.9	2	4	.....	11	5	4	3	2	.....	.....	2.8
37.5 47.5	7	11	30.11 a	764.8 a	54.4	12.4	2	7	2	8	4	3	2	2	.....	1	3.1
37.5 52.5 b	9	10	30.07	763.8	51.9	11.1	4	6	2	6	4	4	1	2	.....	2	3.1
37.5 57.5 a	10	13	30.05	763.3	50.2	10.1	6	10	3	1	5	3	.....	2	.....	1	3.5
37.5 62.5 a	12	18	30.06	763.5	48.5	9.2	3	15	.....	2	3	4	1	2	.....	1	3.3
37.5 67.5 a	18	26	30.13	765.3	46.8	8.2	5	11	1	3	4	4	.....	2	.....	1	3.2
37.5 72.5	30	88	30.10	764.5	44.1	6.7	7	11	.....	2	5	3	.....	2	.....	1	2.8 a
42.5 12.5	9	10	30.25	768.3	58.7	14.8	4	7	2	8	1	3	.....	6	.....	.....	2.2
42.5 17.5	6	6	30.31	769.9	58.5	14.7	4	8	3	8	1	4	2	1	.....	.....	2.5
42.5 22.5	6	7	30.33	770.4	57.7	14.3	1	11	3	7	5	3	.....	1	.....	.....	2.5
42.5 27.5	7	9	30.31	769.9	57.1	13.9	1	5	4	16	3	2	.....	.....	.....	.....	2.7
42.5 32.5	9	9	30.28	769.1	56.2	13.4	1	4	2	16	6	1	1	.....	.....	.....	3.1
42.5 37.5	14	21	30.18	766.6	54.4	12.4	1	6	3	11	8	1	.....	1	.....	.....	3.5
42.5 42.5	24	68	30.11	764.8	50.9	10.5	1	8	2	8	9	.....	2	1	.....	.....	3.4
42.5 47.5	27	80	30.07	763.8	46.5	8.1	4	9	.....	5	8	3	1	1	.....	.....	3.9
42.5 52.5	31	67	30.02	762.5	43.7	6.5	5	7	.....	8	5	4	.....	2	.....	.....	3.6
42.5 57.5	29	68	30.05	763.3	40.5	4.7	6	11	3	1	4	4	1	1	.....	.....	3.8
42.5 62.5	25	61	30.03	762.7	38.6	3.7	4	14	1	5	2	5	.....	.....	.....	.....	3.6
42.5 67.5	27	71	30.04	763.0	37.2	2.9	6	12	2	3	4	3	.....	1	.....	.....	3.3
47.5 12.5	25	41	30.14	765.5	54.1	12.3	1	11	4	10	2	2	.....	1	.....	.....	3.6
47.5 17.5	27	48	30.16	766.1	53.1	11.7	1	10	5	11	3	1	.....	.....	.....	.....	3.6
47.5 22.5	24	54	30.16	766.1	51.7	10.9	11	7	8	5	.....	.....	.....	.....	.....	.....	3.8
47.5 27.5	25	61	30.18	766.6	50.6	10.3	.....	9	7	7	7	.....	.....	1	.....	.....	4.1
47.5 32.5	22	57	30.10	764.5	49.4	9.7	.....	6	5	15	2	1	.....	1	1	.....	3.9
47.5 37.5	27	70	30.05	763.3	46.6	8.1	2	6	4	12	4	2	.....	1	.....	.....	3.9
47.5 42.5	15	22	29.96	761.0	40.6	4.8	2	8	3	9	5	3	.....	1	.....	.....	3.3
47.5 47.5	4	4	29.93	760.2	32.8	0.4	2	8	3	12	2	2	.....	2	.....	.....	2.7
52.5 12.5	19	29	30.01	762.2	50.6	10.3	1	9	7	10	4	.....	.....	.....	.....	.....	4.0
52.5 17.5	18	23	30.06	763.5	50.0	10.0	.....	11	9	9	2	.....	.....	.....	.....	.....	4.0
52.5 22.5	13	18	30.03	762.7	48.4	9.1	.....	12	9	6	4	.....	.....	.....	.....	.....	3.8
52.5 27.5	10	11	29.96	761.0	46.3	7.9	.....	12	10	5	2	2	.....	.....	.....	.....	3.6
52.5 32.5	6	6	29.96	761.0	44.1	6.7	.....	12	7	8	2	1	.....	.....	.....	1	3.6 a
52.5 37.5	1	1	29.91	759.7	39.3	4.1	.....	15	5	7	1	1	.....	1	.....	1	2.7 a
52.5 42.5	.....	.....	29.86	758.4	34.3	1.3	.....	14	1	10	1	2	.....	2	.....	1	2.6 a
52.5 47.5 a	.....	.....	29.84	757.9	28.6	— 1.9	1	14	.....	9	.....	2	.....	4	.....	1	2.0
57.5 12.5	3	4	29.66	753.4	41.8	5.4	.....	9	2	14	1	.....	.....	5	.....	.....	3.9
57.5 17.5	2	3	29.65	753.1	39.8	4.3	2	9	7	10	.....	1	.....	2	.....	.....	3.6
57.5 22.5	1	1	29.66	753.4	37.2	2.9	2	12	6	7	1	1	.....	2	.....	.....	3.2
57.5 27.5	.....	.....	29.65	753.1	33.6	0.9	2	17	4	4	.....	1	1	2	.....	.....	3.0
57.5 32.5	.....	.....	29.66	753.4	32.0	0.0	.....	18	3	5	1	2	1	.....	.....	1	2.8 a
57.5 37.5	.....	.....	29.65	753.1	28.1	— 2.2	19	3	5	1	.....	.....	1	.....	.....	1	2.7 a
57.5 42.5 b	.....	.....	29.65	753.1	25.1	— 3.8	2	15	1	8	.....	1	.....	2	.....	2	2.2
57.5 47.5 b	.....	.....	29.65	753.1	19.9	— 6.7	.....	17	.....	7	.....	.....	1	3	.....	3	2.0

NOTE.—See General Remarks.

REVIEW.

INTERNATIONAL METEOROLOGY.

[*Pressure expressed in inches and millimetres.*]

With this REVIEW are issued two international storm-track charts. They are for the months of March and April, 1881, and continue the series of chart v., begun in November, 1877.

The data are charted for each day of the month, on the maps accompanying each issue of the "International Bulletin," and from these charts, and from additional reports, are traced the movements of the centres of barometric minima.

Twenty-six of the more important atmospheric depressions that have appeared in the northern hemisphere during the month of March, 1881, have thus been traced. The following concerns the general distribution of these depressions:

Ten appeared in the United States and Canada; of these, one has been traced from the Pacific coast eastward across the continent to the Atlantic, and three have been traced from the Atlantic coast eastward over the ocean.

Thirteen depressions appeared over Europe; three of which apparently developed in mid-ocean. Six of these depressions traversed northern and western Europe, the general direction of their movement being northeasterly; and seven are shown over the southern and eastern parts of the continent, moving generally in an easterly or southeasterly track.

Three storms are traced over Asia; one of these appeared in Asiatic Russia, one in China, and one in eastern Japan.

The following are brief descriptions of the storms that occurred in the United States and Canada:

I.—This was a continuation of the storm traced as low-area viii. of the February chart. At the close of February the disturbance was central in Ontario, Canada, whence it moved eastward over the New England states, and on March 1st was central, as a somewhat severe storm, off the coast. The depression exhibited much energy during the 2d and 3d, and on the latter date it probably merged with an extensive depression which, on that day, occupied the north Atlantic east of the fortieth meridian.

II.—This disturbance developed in the northwest territories of British America, and moved in a southeasterly direction toward the state of Kansas, where it was central on the 2d. The course then changed to the east-northeastward, and the centre of disturbance appeared in eastern Indiana on the morning of the 3d, causing rain or snow in the northern quadrants of the depression, and cloudy or partly cloudy weather to the south and eastward. During the 3d the disturbance apparently moved slowly and developed increased energy, and on the 4th was central over the southern part of Lake Michigan, while another depression had developed in Virginia. Under the combined influence of these depressions, the rain and snow areas increased in all directions. On the 5th the two depressions united near Lake Ontario, and the storm moved with decreasing energy over the New England states to the Atlantic, and on the 6th it was central to the southward of Nova Scotia, attended by moderate gales and rain. On the 7th the storm centre was near N. 45°, W. 51°, the pressure having decreased as the disturbance moved over the ocean; the lowest reported barometric reading was 29.15 (740.4), wind se., force 2, by the s. s "Köln," in N. 45° 06′, W. 49° 47′. On the 8th the disturbance moved slowly northeastward, the pressure remaining unchanged, but on the 9th a great increase of pressure set in, and the depression gradually filled up south of Greenland.

III.—This was a secondary depression, which developed in Georgia on the 3d, and which moved northward, exhibiting great energy. On the 4th the depression was central in Virginia, whence it moved northward and merged with low-area ii., above described.

IV.—This disturbance first appeared in southern New Mexico on the 6th, and, moving slowly northeastward, was apparently central in Indian Territory on the following day. On the 8th the storm-centre was in eastern Illinois, causing general rains in the southern and middle Atlantic states and light snows in the lake region; during the 8th its course changed to the eastward, and the disturbance exhibited increased energy as it moved toward the coast. On the 9th the storm was central in eastern Virginia, and during the 10th and 11th it moved northeastward in a line parallel to the coast, causing violent gales. During the 12th and 13th it remained near the coast of Nova Scotia, with strong easterly gales and rain and snow prevailing over the Maritime Provinces. On the 13th the storm-centre began to move eastward over the ocean, the wind changing to northerly over the Maritime Provinces and moderating in force. On the 14th the centre of disturbance was near N. 45°, W. 48°, the atmospheric pressure having somewhat decreased; on that date the s. s. "Scythia," in N. 44° 01′, W. 45° 11′, reported barometer 29.19 (741.4), wind ssw., force 7, rainy weather. On the 15th the disturbance appears to have moved northward and to have gradually dissipated, its eastward movement being checked by an area of high pressures which stretched from the British Isles in a southwesterly direction over the Atlantic.

V.—This depression appeared in the north Pacific coast region on the morning of the 9th, causing general rains in California; during the day the disturbance moved southeastward through Utah, and on the 10th the region of least pressure was shown in Colorado. The course then changed to easterly and the depression moved to eastern Kansas, where it was central on the morning of the 11th, causing rain in the southern and snow in the northern quadrants. By the 12th, the isobar of 29.4 (746.7) presented an elongated form, and extended from eastern Kansas to southern Michigan; general rains occurred in the southern and middle Atlantic states, and rain or snow in the lake region and in Ontario, accompanied by moderate easterly gales over the last-mentioned districts. By the morning of the 13th the pressure had greatly increased over the lake region and the Saint Lawrence valley, and the disturbance apparently disappeared, but the barometric readings remained low in the vicinity of Nova Scotia.

VI.—During the 13th and 14th a large area of low pressures, with no well-defined centre, occupied the country west of the hundredth meridian. On the last-mentioned date the depression apparently moved northeastward, and by the 15th it had disappeared near Lake Superior, without developing much energy.

VII.—During the 14th, 15th, and 16th the atmospheric pressure remained low over the extreme southwestern sections of the United States, and on the 16th a disturbance became central in the valley of the Rio Grande; on the 17th and 18th its centre moved very slowly through Texas, causing rainy and cloudy weather in that state. On the 19th the storm-centre was in northern Kentucky, attended by a great increase of energy; easterly and northeasterly gales, with heavy rain, prevailed over the lake region and the Saint Lawrence valley, while heavy snow-storms and northwesterly winds occurred in Missouri and Iowa. By the morning of the 20th the storm-centre was in northern Michigan, whence it moved slowly down the Saint Lawrence valley; after the 20th the rain changed to snow in the lake region and in the Saint Lawrence valley, and strong easterly winds and rain occurred in Nova Scotia. During the 21st and 22d the disturbance moved slowly across the Gulf of Saint Lawrence, and on the 23d was central east of Cape Breton Island, the pressure decreasing as the disturbance moved over the ocean, but owing to the moderate inclination of the barometric gradients on all sides of the depression, only fresh to strong breezes were reported by vessels within the area of disturbance. During the 24th and 25th the storm-centre moved very slowly eastward, but on the 26th the isobar of 29.2 (741.7), which enclosed the region of least pressure, became elongated and extended from the Banks of Newfoundland eastward to the twenty-second meridian, the winds remaining moderate in force. On the 27th the area of disturbance apparently separated into two parts; a further decrease of pressure occurring over the Gulf of Saint Lawrence, while to the eastward the pressure remained unchanged. During the 28th, 29th, and 30th the disturbance remained central

in the vicinity of the Azores, the winds increased in force over the region north of the centre, and the pressure gradually decreased over the Iberian peninsula. During the 30th a northeasterly movement began and the region of least pressure was near the Bay of Biscay at the close of the month, causing a rise in temperature and rainy weather over southwestern Europe.

VIII.—This was a secondary development of low-area vii., and appeared in Arkansas on the morning of the 21st. The disturbance increased in energy as the centre moved eastward to North Carolina, where it was shown on the 22d; by the 23d it had moved into the Atlantic, causing high winds on the coast and strong southerly gales at sea. During the 23d the depression probably moved northeastward and merged with low-area vii., then central near Nova Scotia.

IX.—As stated in the description of low-area vii., a decrease of pressure occurred over the Gulf of Saint Lawrence on the 27th. Strong westerly and northwesterly winds prevailed in the Maritime Provinces and along the Saint Lawrence valley during the 28th and 29th, after which date the pressure increased and the weather moderated over the districts abovenamed.

X.—This disturbance developed in Colorado on the 27th, but exhibited no unusual energy until the 28th, when it was central in Kansas, accompanied by rain near the centre and generally cloudy weather to the east and northward. By the 29th the storm-centre was in northern Tennessee, whence it moved in an east-northeasterly direction to Virginia. On the 30th rain became general in the southern sea-board states, with snow in the lake region, and strong gales occurred along the coast. At the close of the month the disturbance was central, as a severe storm, off the New England coast, the barometer at the centre reading 28.98 (736.1), or one inch below the normal.

The following descriptions relate to the storms that occurred over the Atlantic and in Europe:

XI.—At the close of February an area of low barometric readings remained over mid-ocean, attended by strong to moderate gales. These conditions were maintained during the 1st of March, the region of low pressures showing no change in position. On the 2d the storm-centre was transferred to the vicinity of the Azores, the winds increasing in force over those islands; on the 3d the storm-centre, having moved rapidly northeastward, was shown off the southwestern coast of Ireland, the pressure at its centre being below 29.0 (736.6). The bark "Commewyne," in N. 52° 58′, W. 17° 44′, reported barometer 28.83 (732.3), wind ese., force 6, cloudy; s. s. "Cipero," in N. 52° 35′, W. 15° 05′, barometer 28.99 (736.3), wind sse., force 4; and the s. s. "Baltic," in N. 50° 59′, W. 14° 06′, barometer 29.00, (736.6), wind s., force 5, raining. On the 3d the temperature rose in western France and the British Isles, and heavy rains occurred over Ireland, with cloudy weather in England and Scotland. Steep barometric gradients were formed over the British Isles and western France, and strong easterly and southeasterly winds prevailed, increasing to gales on the coasts. The chart for the 4th shows the region of low barometer to be in nearly the same position as on the preceding day; the decrease extends slightly to the westward. On the 5th the storm-centre moved slowly north-northeastward, and on that day it was shown off the west coast of Ireland, the area of least pressure having an elliptical form. During the 4th and 5th the barometric pressure remained high over Scandinavia and northern Germany; the gradients became steeper, and the winds increased to hard gales over the British Isles. On the 6th the disturbance was central northwest of Ireland; the anticyclone over Scandinavia began to give way and the winds decreased in force over the southern part of the British Isles, but continued with undiminished force in northern Scotland. During the 7th and 8th the depression moved slowly northeastward, throwing off small subsidiary disturbances which traversed the North sea, and caused continuous rains over western Europe. By the morning of the 9th the pressure had increased slightly, and on the following day the disturbance disappeared in the Arctic ocean.

XII.—This was probably a continuation of the storm described as low-area xxi. on the February chart. At the close of that month the disturbance was central in southern France, and on March 1st the centre was shown in northern Italy, attended by strong winds and rain. On the 2d the storm-centre was over the Adriatic, the wind shifting to northerly over Italy after the passage of the centre. On the 3d the disturbance moved southeastward over the Mediterranean where it gradually dissipated.

XIII.—This was probably a secondary development of low-area xxi. on the February chart. On the morning of the 1st a shallow depression occupied northern Germany, southern Sweden, and the Baltic. The depression moved northeastward over the Baltic and disappeared in Finland on the following day.

XIV.—The atmospheric pressure remained low over the British Isles and western Europe during the 6th and 7th under the influence of low-area xi., and on the latter date a secondary depression developed in northeastern England. The disturbance moved over the North sea, causing heavy rains accompanied by severe thunder-storms in northern Germany; on the 8th the storm-centre was in southern Sweden. After the passage of the centre the winds changed to westerly over northern Germany, and rainy or cloudy weather continued, while snow was reported at stations in southern Scandinavia. Moving northeastward from the Baltic, the disturbance on the 9th appeared central over the Gulf of Finland, accompanied by occasional snows and rising temperatures in northwestern Russia, and followed by fresh westerly breezes over the Baltic. On the 10th the disturbance was apparently central near the White sea, and finally disappeared in the Arctic regions during the day.

XV.—On the morning of the 10th an area of low pressure extended from Prussia southeastward over Austro-Hungary to the Black sea. This depression caused strong westerly and southwesterly winds in southern Germany and in Austria. At Vienna the storm attained the violence of a hurricane. The following extract indicates the severity of the gale in that city:

> Vienna has been visited by the most severe storm that has been known for years; on the evening of the 9th the wind blew strongly from the southwest, and during the night it increased to hurricane force and continued during the 10th. While the storm lasted, travel on the streets was rendered exceedingly dangerous, splinters of glass, tiles, signs, &c., being blown in all directions by the wind. The damage to buildings and other property was very great, and several persons sustained more or less serious injury. The storm ended during the night of the 10th–11th.

On the 11th the disturbance was apparently central near Kieff, Russia, where the barometer read 29.56 (750.9), wind nne., light snow; on the 12th the depression finally disappeared in the Caucasus, accompanied by rain in that region.

XVI.—This depression appeared near the Shetland Islands on the 11th; it moved southeastward during the day, and on the 12th its centre was shown in northeastern Germany, causing rain or snow and rising temperature over that region, southern Scandinavia, and the Baltic, and brisk to strong north-northwesterly winds over Denmark and northwestern Germany. By the morning of the 13th an increase of pressure had taken place over Scandinavia and northwestern and central Europe, and the region of least pressure was transferred to southwestern Russia, near the western shores of the Black sea, while cold, clearing weather prevailed over northwestern Europe. On the 13th strong southeasterly winds prevailed over the western part of the Black sea, and on the 14th the depression passed eastward, the wind changing to northerly after the passage of the centre. During the 15th and 16th the disturbance moved slowly over the region between the Black and the Caspian seas, where it finally disappeared, the pressure gradually increasing. The area of high pressures, above referred to, had now spread over the whole of Europe, the centre of the anticyclone being in northern Germany and the

Baltic, where the barometer read 30.6 (777.2); and generally fine weather prevailed over western Europe.

XVII.—During the 11th and 12th a rapid decrease of pressure occurred over the ocean near the Azores, and by the morning of the latter date the centre of disturbance was apparently situated to the northeastward of those islands; the storm-centre then moved northeastward, with increasing pressure, to the Bay of Biscay, where it was central on the 13th, causing a rise in temperature and light rains in the northeast quadrant. On the 14th the depression was central in western France; its course then changed to the southeast and the disturbance passed over southern France toward the Mediterranean, where it dissipated on the 15th.

XVIII.—From the 12th to the 17th a small but deep depression remained near Iceland and did not materially affect the weather conditions over Europe until the 16th, when the anticyclone which prevailed over that continent began to give way. On the 17th the depression moved northeastward, and by the 18th it had reached northern Norway. The gradients became steep over the British Isles and Denmark, and strong southwesterly and westerly winds occurred, increasing to gales in the northern portions. On the 19th the disturbance was central near the White sea, barometer at the centre reading 28.00 (711.2), which was the lowest barometric reading ever reported at Archangel; strong westerly gales occurred over northern Europe, accompanied by generally colder weather, with snow in Norway. This depression was remarkable for the large extent of territory subjected to its influence, as will be seen by a reference to the daily charts for the 18th and 19th. On the 19th the central depression was near Archangel, while the wind-system of Europe was affected as far south as the forty-eighth parallel, being equal to a radius of twenty-seven degrees, or 1,620 geographical miles. During the 19th and 20th the region of high pressure was forced southward to the Mediterranean, and generally stormy weather prevailed over the greater part of the continent. On the 21st the pressure at the centre of depression showed a marked increase, and the disturbance moved toward the Ural mountains, in which vicinity it disappeared on the 21st.

XIX.—The daily chart for the 16th shows an area of low pressure, enclosed by the isobar of 29.4 (746.7), over the Atlantic near N. 40°, W. 48°. On that day the s. s. "Britannic," in N. 41° 49′, W. 50° 54′, reported barometer 29.27 (743.4), wind ne., force 8, rain and hail; and the s. s. "Strassburg," in N. 40° 20′, W. 57° 21′, barometer 29.7 (754.4), wind n., force 8–9, heavy ne. swell and threatening weather. By the 17th the region of least pressure had moved slowly northeastward, but its progress was apparently checked by the area of high barometer which extended from Europe westward to the thirtieth meridian, so that on the following days (18th, 19th and 20th) the position of the low area was but little changed, although the pressure had gradually diminished over the region to the east of the disturbance. By the 21st the depression was central near and to the westward of the Azores; the ship "City of Agra," in N. 38° 48′, W. 36° 40′, reported barometer 29.6 (751.8), calm, while strong south-southwesterly winds prevailed in the Azores. On the 22d the storm-centre moved to the northward of the Azores, the wind changing to westerly over those islands, while easterly winds of moderate force prevailed north of the forty-fifth parallel. During the day the disturbance moved rapidly northeastward, and on the 23d it appeared central off the western coast of Ireland, the area of least pressure being enclosed by the isobar of 29.2 (741.7); on the 23d a considerable rise in temperature occurred over the British Isles, and general rains with moderate southerly and southwesterly gales prevailed. The pressure decreased as the disturbance moved northeastward, and on the 24th the centre was near the Shetlands, the barometer at North Unst reading 28.45 (722.6), wind s., force 2, raining; during this day strong westerly winds prevailed over Scotland. On the 25th the storm-centre was near the northern part of the Gulf of Bothnia, whence it moved northeastward and disappeared on the 26th in the Arctic region.

XX.—This disturbance appeared over the Mediterranean on the 21st; it moved in an easterly path over Italy, and on the 22d it appeared as a well-defined depression central in Austro-Hungary, but which did not, however, exhibit any marked energy. On the 23d the disturbance dissipated in southern Russia.

XXI.—This was a slight depression which appeared over the Mediterranean on the 26th, when it was central near the island of Sardinia. The disturbance apparently dissipated near the Adriatic during the 27th.

XXII.—This depression appeared off the coast of northern Norway on the 28th, causing moderate westerly and northwesterly winds over the British Isles, except in the extreme northern part, where the wind blew with the force of a gale. On the 29th the region of least pressure was transferred to central and southern Scandinavia, accompanied by snow at stations in the peninsula; during the day the course changed to northeasterly, and on the 30th the centre of disturbance was in Finland. At the close of the month the depression was shown to the eastward of the White sea.

XXIII.—During the 29th the pressure decreased over the Gulf of Lyons, and by the 30th a distinct area of low pressure was shown over Italy. The depression moved northeastward, and on the 31st was central in Austro-Hungary.

The following are the descriptions of the barometric minima that occurred in Asia:

XXIV.—This disturbance apparently originated in the region near the sea of Aral on the 13th. It moved slowly eastward on the 14th, causing a southwesterly gale at Tashkend; its course then became northeasterly, and on the 15th the disturbance was shown in central Siberia, where it finally disappeared.

XXV.—This disturbance appeared on the 20th, to the southward of the island of Kiushiu, Japan. It moved northeastward, apparently skirting the coast of Japan, and on the 22d was central to the eastward of Niphon. It then passed beyond the range of observation.

XXVI.—This was a depression which formed probably in the interior of the Chinese Empire, and on the 31st was central near Pekin, causing a fall of .3 inch in the barometer at that station.

Chart v. for April, 1881, shows the tracks of twenty-eight of the principal depressions that have appeared over the northern hemisphere during that month. These depressions were distributed as follows:

Eight appeared in the United States and Canada; of these, two have been traced from the coasts of North America eastward over the Atlantic to the European coasts. Eleven barometric minima are shown over Europe; of these, two first appeared in Greenland, and moved in an easterly or southeasterly direction toward the continent; five prevailed in the southern part of Europe, and moved from west to east; three appeared in northern Europe, their movement being easterly or northeasterly. One depression only, moving from southwest to northeast, is shown over the British Isles. Nine depressions are shown over Asia; two of these occurred in Asiatic Russia, while seven, an unusually large number for the month, prevailed over eastern Asia.

The month of April, 1881, was characterized by an unusual freedom from violent storms in the northern hemisphere, but much damage was caused by floods, especially in the United States, in Spain and in Hungary. Earthquakes were frequent and severe, the most disastrous being that which occurred in the island of Chios.

The following brief descriptions concern the storms that occurred over the United States and Canada:

I.—This was a continuation of the depression traced as low-area x. on the March chart. On the last day of March the disturbance was central, as a deep depression of great energy, south of Nova Scotia; by April 1st it had moved to the eastward, attended by a slight increase of pressure, but the winds did not moderate in force except on the coasts of the United States; southward and eastward over the ocean very

strong gales continued. On the 2d the area of low-pressure became elongated and extended from the Gulf of Saint Lawrence eastward to the thirtieth meridian, the winds moderating slightly to the east of the centre, but showing no decrease in force on the south side of the depression. From the 3d to the 7th the disturbance remained over Newfoundland and the Gulf of Saint Lawrence, the region of least pressure occupying on each day the positions as traced on the chart. During the period from the 3d to the 7th the atmospheric pressure near the centre ranged from 29.0 (736.6) to 29.4 (746.7), and strong gales continued in the eastern and southern quadrants. During the 7th the disturbance began to move slowly eastward, and on the 8th was shown near N. 47°, W. 42°. By the 9th the storm-centre, having moved in a northeasterly track, was near N. 53°, W. 31°, attended by moderate to strong southerly gales in the eastern quadrants and causing a decrease of pressure over the western part of the British Isles. On the morning of the 10th the depression was central off the southwestern coast of Ireland, causing a slight rise in temperature over that island, with light rains in the southwestern portions. On the 11th the depression appeared to have withdrawn towards the west, but on the 12th it was again shown to the northwest of Ireland. It then moved northward, or to the west of north, and disappeared near Iceland on the 13th.

II.—This disturbance appeared in Montana on the 15th, and moved by a southeasterly course to Kansas, where it was central on the 6th. On the morning of the 7th the centre of the depression was in Arkansas, whence it moved eastward over Tennessee and North Carolina, attended by heavy rains near the track of its centre. On the 9th the disturbance was shown as a storm of considerable energy, central at some distance off the coast of Virginia; during the 10th and 11th the depression moved northeastward, the barometric readings near its centre being below 29.6 (751.8). On the 13th the storm-centre was apparently near N. 49°, W. 41°; on that date the s. s. "Circassian," in N. 47° 57′, W. 42° 28′, reported barometer 29.2 (741.7), wind wsw., force 1, and vessels in the southwest quadrant reported strong westerly gales. On the 14th the disturbance probably moved eastward; during the day the course apparently changed to the southeastward, and on the 15th the depression was central near the Azores, causing a slight decrease of pressure over the western part of the Iberian peninsula. On the 16th the area of disturbance presented the form of an ellipse, the lowest barometric readings being near the coast of Spain, while the decrease of pressure extended southeastward to the Madeira Islands. This disturbance is hereafter described as low-area xiii. of this chart.

III.—This depression developed in Texas on the 10th, and on the following day it appeared in Indian Territory, attended by rainy weather in the northeast quadrant. By the morning of the 12th the area of low-pressure covered the country from Texas northeastward to the southern part of the lake region; within this area the lowest barometric readings were in northern Kentucky and in southern Ohio, where the barometer read 29.65 (753.1), or about .3 inch below the normal. During the day the depression dissipated south of the lakes.

IV.—This was a secondary development of the preceding depression, low-area iii. It moved northeastward, followed in its immediate rear by a great fall in temperature. On the 13th the depression was in West Virginia, whence it moved into the Atlantic, and on the 14th it was central south of Nova Scotia. During the day it probably became merged in low-area v. During the passage of this depression, disastrous tornadoes occurred in Mississippi and Arkansas, and under the influence of the cold wave above referred to severe frosts, injuring vegetation, were reported throughout the state of Texas, except in the southern sections.

V.—This depression formed in Georgia during the 13th, and on the 14th appeared as a well-defined storm-centre off the coast of the Carolinas. A sudden and great decrease of pressure took place during the day as the depression moved northeastward in a line nearly parallel to the coast, and on the morning of the 15th the centre of depression was indicated by the isobar of 28.8 (731.5), and was situated to the southward of Nova Scotia. On this day strong easterly and northeasterly gales prevailed in Nova Scotia, with rain or snow at stations in the Maritime Provinces and in New England. The winds had changed to northwesterly on the coast of the United States, and blew with the force of a strong gale from North Carolina to the New England coasts. On the 16th, 17th, and 18th the storm moved slowly north-northeastward over the Gulf of Saint Lawrence and finally disappeared in Labrador. During this storm all vessels between the thirtieth and fortieth parallels and west of the sixtieth meridian reported winds of cyclonic tendency and of great force, in which many vessels lost sails, spars, boats, and sustained other damage.

VI.—This disturbance entered the United States from Manitoba on the 14th; it moved southeastward, causing light rains in Wisconsin and Iowa, and finally filled up near Lake Michigan.

VII.—On the 24th the pressure was generally low over the country west of the hundredth meridian, the lowest barometric values being reported from Dakota. By the morning of the 25th the disturbance occupied the lake region, while a slight and unimportant depression existed in Texas and Indian Territory. On the 26th the disturbance, having moved eastward, was central in Ontario, where it was attended by light but general rains. During the day the depression apparently dissipated in the valley of the Saint Lawrence.

VIII.—This disturbance was shown in Manitoba on the 26th; it passed eastward north of Lake Superior and disappeared in Labrador on the 28th.

The following descriptions relate to the storms that occurred over Europe:

IX.—This was probably a continuation of the depression traced as low-area vii. on the March chart. At the close of that month it was central near the Bay of Biscay; on April 1st and 2d it remained central near the southern shores of the bay, attended by rising temperatures and rain at stations on the coasts of France and Spain. During the 2d and 3d the decrease in pressure extended eastward over the Mediterranean to Italy, but the centre of disturbance appeared to be near the Pyrenees, while a second depression had developed near the coast of Portugal. By the 4th low-area ix. was central over the western part of the Mediterranean, whence it moved slowly eastward to Italy, where it was central on the 6th; its course then changed to northeasterly, and on the 7th the disturbance was over the Adriatic, causing rain at stations in the northern quadrants. During the 7th the pressure increased, and the disturbance gradually disappeared.

X.—On the 3d an area of low-pressure formed near the coast of Portugal, and caused strong southerly winds and rain at stations in the peninsula. During the 4th and 5th the centre of disturbance remained persistently off the coast, the pressure gradually decreasing at the land stations. By the morning of the 6th the area had become elongated, and extended eastward to Italy, and northward to northern France. Within this area the lowest barometric readings remained in Spain, while the rain-area extended to the English Channel. On the 7th the pressure began to increase, and on the 8th the disturbance dissipated in northern France. From the 2d to the 6th an area of high-pressure covered the British Isles and northern Europe, in consequence of which steep gradients were formed, and strong east and northeast gales occurred over the English Channel and in France. It was during the existence of depressions ix. and x. that the destructive floods occurred in southern Spain. The Guadalquivir overflowed its banks, inundating nearly forty square miles of country near its mouth. The valley in which Seville lies was flooded for a distance of thirty miles, half of the city of Seville being under water. Many houses were vacated, the foundations having been rendered insecure, and all railroad travel was suspended. Fears were entertained that famine would increase the distress, as more than 30,000 inhabitants of Seville and its environs

were without food. The damage was estimated at ten millions of francs. The districts of Badajoz, Granada, Murcia, Almeria, Huelva and Cordova were also flooded.

XI.—This was a deep depression which first appeared in the extreme northern part of Scandinavia on the 3d and 4th. On the 5th the disturbance moved into Finland, causing strong southwest and south-southwest winds over the Gulf of Bothnia. On the 6th the depression moved toward the White sea, and on the following day disappeared in the valley of the Obi.

XII.—This depression, the only one traced across the British Isles during the month, was probably a subsidiary disturbance of low-area i. On the 14th the depression, which was shallow, appeared over the Saint George's Channel; it moved northeastward, attended by rain in England. On the 15th the disturbance passed to the North sea, and apparently dissipated before reaching the continent.

XIII.—This was a continuation of the depression traced as low-area ii. of this chart. On the 17th the disturbance was central in the southern part of the Bay of Biscay, causing strong easterly winds over France and the English Channel. On the 18th the centre of the depression remained in Spain, and the pressure decreased over central and northern Europe as a new disturbance developed near the Baltic. On the 20th low-area xiii. was central over the Mediterranean, and, under the combined influence of this and low-area xv., a considerable decrease of pressure occurred over the whole of Europe. On the 21st and 22d the disturbance moved to Italy and Austro-Hungary, and on the 23d disappeared near the Black sea.

XIV.—This disturbance first appeared off the northern coast of Norway on the 18th and caused moderate to strong westerly winds in Scandinavia. On the 19th the depression disappeared north of the White sea.

XV.—This depression first developed in northern Germany on the 19th, and on the 20th was central over the Baltic, the pressure having greatly decreased near the centre, which was now enclosed by the isobar 29.0 (736.6). Strong gales, with snow, occurred over the Gulf of Bothnia and the Scandinavian peninsula, and strong northwest and west gales in Denmark, northern Germany, and over the Baltic. On the 21st the storm-centre maintained nearly the same position as on the preceding day, but the pressure had increased and the winds had generally moderated in force. By the 22d the centre of disturbance had moved northeastward to Finland, causing strong northerly gales and snow in northern Norway. On the 23d the disturbance was over the White sea, and probably disappeared in the Arctic regions during the day, but the atmospheric pressure did not recover quickly over northern Russia, owing to the advance of low-area xvi.

XVI.—This depression first appeared in western Greenland on the 23d; it moved eastward, and on the 24th was central near Iceland, causing a southeasterly gale and rain at Stykkisholm. On the 25th the centre of disturbance was between the Shetland Islands and Norway; a considerable decrease of pressure took place over the northern part of the British Isles, and westerly gales occurred over Scotland and the North sea; there was a general rise in temperature in northwestern Europe, and the rain-area extended southward to the Netherlands. During the 25th the storm-centre moved slowly southeastward to southern Norway. On the 26th strong westerly winds and a rise in temperature occurred over Denmark, while to the westward of the centre the winds shifted to northerly and decreased in force, accompanied by lower temperatures. On the 27th the disturbance was central near the eastern shores of the Baltic; its course then changed to the northeast and the centre of the depression moved into northwestern Russia, accompanied by generally rainy weather throughout that district. On the 29th the disturbance disappeared to the eastward of Archangel.

XVII.—This disturbance appeared near the Black sea on the 25th, causing rainy weather over that region. On the 26th the low area changed only slightly in position, but during the day an increase of pressure set in and the depression filled up after passing to the eastward of the Black sea.

XVIII.—This disturbance appeared in the Mediterranean on the 27th, on which date it was apparently central between Sardinia and Italy. Strong northwesterly gales and heavy rains occurred at stations on the shores of the Gulf of Lyons and in Sardinia, and strong westerly breezes prevailed in southern Italy. On the 28th the depression occupied the Adriatic sea and the Danubian Principalities, causing strong southwesterly breezes in the southern quadrants. On the 29th the disturbance was shown in European Turkey, and at the close of the month was gradually filling up near the Black sea.

XIX.—This disturbance appeared in southern Greenland on the 27th. On the 28th and 29th it moved southeastward, and at the close of the month was central off the western coast of Ireland, the region of least pressure being enclosed by the isobar of 29.6 (751.8).

The following are brief descriptions of the atmospheric depressions that appeared in Asia:

XX.—This was a continuation of low-area xxvi. on the March chart. The disturbance passed from central China northeastward to the Gulf of Pe-Che-Li on the 1st and 2d. After crossing the peninsula of Corea its course changed to the southeastward and the disturbance moved over the Sea of Japan. During the 2d it crossed Niphon and entered the Pacific ocean. On the 3d the s. s. "Oceanic," in N. 38° 36′, E. 147° 30′, reported barometer 29.6 (751.8), wind nw., force 6, squally. On the following day the disturbance passed beyond the range of the observations.

XXI.—This depression appeared near Pekin, China, on the 6th; it passed northeastward beyond the stations of observation during that day.

XXII.—On the 6th a great decrease of pressure occurred over Japan, and on the 7th the disturbance apparently passed northeastward over the Pacific ocean.

XXIII.—This disturbance appeared in Toorkistan on the 13th and on the 14th the region of least pressure was transferred to central Siberia; it then passed beyond the stations of observation.

XXIV.—This was a slight depression which appeared on the 13th south of the island of Kiu-Siu, Japan; it disappeared to the eastward on the following day.

XXV.—During the 16th the pressure decreased at Yeniseisk, Siberia, and on the 7th the disturbance was probably near Lake Barkal. On the 18th the depression reached the vicinity of Nertschinsk, while a great increase of pressure had set in over the region to the westward of that station. On the 19th and 20th the depression was shown near the Sea of Okhotsk, where it disappeared.

XXVI.—This disturbance apparently originated in the southwestern part of China. It moved north-northeastward, and entered the Gulf of Pe-Che-Li on the 19th; on the following day it was apparently central over the Sea of Japan and near to the southern coast of Niphon. Strong southerly breezes occurred over the eastern part of Niphon on the 20th; on the 21st the shifting of the wind on the eastern coast of the island indicated that the disturbance had passed into the Pacific.

XXVII.—From the 23d to the 26th the barometer remained low in central China, and on the latter date the decrease extended to the coast-line. On the 27th the wind at Zi-Ka-Wei indicated that the disturbance had passed to the northward of that station. On the 28th the centre of depression was in Japan, causing rain at stations near the centre, and strong southerly breezes to the eastward. On the 29th the disturbance passed into the Pacific and beyond the limits of the observations.

XXVIII.—On the 30th a great decrease of pressure took place over central China, the centre of disturbance being apparently south of Pekin at the close of the month. The minimum barometric reading of the month, 29.58 (751.3), occurred at Zi-Ka-Wei during the existence of this depression.

GENERAL REMARKS.

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

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

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

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

BRITISH SERIES (furnished by co-operation of the Meteorological Council, London, Robert H. Scott, Esq., F. R. S., Secretary, and respective observers.)—In general the originals do not give rainfall or distinction between upper and lower clouds. Relative humidity, except for Bradford and Silloth Rectory, is not given on the originals, but is computed from hygrometrical observations. At Cardington, Galway, Oxford, and Sandwick Manse the barometers are given as read off. The movement of the air is indicated by force, on a scale of 0 to 12, except pounds pressure per square foot at Greenwich. At the following stations rainfall is measured at local time: Bradford, 9 a. m., and Aberdeen, 10 a. m. The wind direction is given to 32 points and weather by the Beaufort notation.

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

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

CHINESE SERIES (furnished by co-operation of Marc Dechevrens, S. J., Director of the Meteorological observatory at Zi-Ka-Wei.)—At Zi-Ka-Wei, the originals give the barometer in millimetres reduced to sea-level and the temperature in Centigrade. The movement of the air is given in metres per second and the directions to 16 points. The kind of clouds is occasionally given, and the degree of cloudiness on the scale of 0 to 10; distinction between upper and lower clouds is sometimes made. The weather is given in general (French) terms. The rainfall is given in millimetres and measured at the moment of simultaneous observation. At Hankow the originals give the barometer in inches, temperature in Fahrenheit and force on the scale of 0 to 10.

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

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

nan. At Guéret, the observations are taken at 12.00 m., instead of 12.16 p. m. At Gap, the observations are taken at 12.03 p. m., instead of 12.32 p. m.

GERMAN SERIES (furnished by co-operation of Prof. Dr. G. Neumayer, Director of the German Marine Observatory at Hamburg.)—The originals give the barometer in millimetres reduced to sea-level and the temperature in Centigrade. The movement of the air is indicated by force on a scale of 0 to 10. The kind of clouds is occasionally given, but no distinction is made between upper and lower, the amount is given on a scale of 0 to 10, but the kind is rarely given. The weather is given in Vienna symbols or in general terms. At Berlin, observations are taken at 2 p. m., instead of 1.02 p. m.

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

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

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

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

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

MEXICAN SERIES (by authority of the Secretary of Public Works—furnished by co-operation of Señor Mariano Bárcena, Director of the Central Meteorological Observatory in the City of Mexico, and respective observers.)—All conversions (subject to correction at this office) are published as given in the originals. The kind of clouds is given, and also the direction and amount of both upper and lower. The degree of cloudiness is indicated on the scale of 0 to 10.

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

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

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

RUSSIAN SERIES (furnished by co-operation of Professor H. Wild, Director of the Imperial Central Physical Observatory of Russia at St. Petersburg.)—The originals give the barometer in millimetres reduced to sea-level and the temperature in Centigrade. At Astrakhan, the barometer-cistern is below sea-level. The movement of the air is indicated by velocity in metres per second. No distinction is made between upper and lower clouds; the amount is given on the scale of 0 to 10 and the kind occasionally. The weather is occasionally given by the Vienna symbols. At Barnaul, observations are taken at 6.18 p. m., local time.

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

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

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

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

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

Valona, at which station it is inferred from the general weather terms.

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

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

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

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

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

UNITED STATES NAVAL SERIES (by authority of the Secretary of the Navy—furnished by co-operation of the Navy Department, through Commodore John G. Walker, U. S. N., Chief of Bureau of Navigation.)—The originals give the barometer as read off. The humidity is not given, but is computed from the hygrometrical observations. The sea-swell and weather are given in general terms. The direction of the wind is compass direction, corrected for variation.

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

OCEAN SQUARES.—The table of ocean square data shows, (1) the location of the centres of squares whose sides extend 5° each in latitude and longitude, (2) the number of days for which observations are at hand within the respective squares, and the total number of simultaneous observations reported on those days, (3) the monthly mean pressure and temperature of the air, and the mean force and total frequency of the wind at 7 a. m., Washington time, computed for the centre of each square from daily readings as obtained by interpolation between the isobars and isotherms of the daily international simultaneous weather-maps.

ERRATA.

DAILY BULLETIN, March 1st, 1882, page 6, United States Naval, "Shenandoah," barometer 764.3 mm., should read 764.0 mm.

4th, page 2, French, Privas, rainfall 4.6 mm., should read 46. mm.; page 8, S. E. J. Spicer, off the Highlands, N. Y., should read N. J.

22d, page 8, Miscellaneous, Bk. "Johanne Auguste," barometer 754.4 mm., should read 755.4 mm.

27th, page 6, United States Naval, "Wachusetts," barometer 29.30 inches, should read 29.32 inches.

29th, page 2, French, Rouen, reduced barometer 768.0 mm., should read 766.0 mm.

31st, page 2, German, Bamberg, actual barometer 28.88 inches, should read 28.89 inches; page 3, Italian, Cosenza, actual barometer 763.9 mm., should read 733.9 mm.; page 8, Warren Line, s. s. "Iowa," barometer 756.4 mm., should read 767.8 mm.

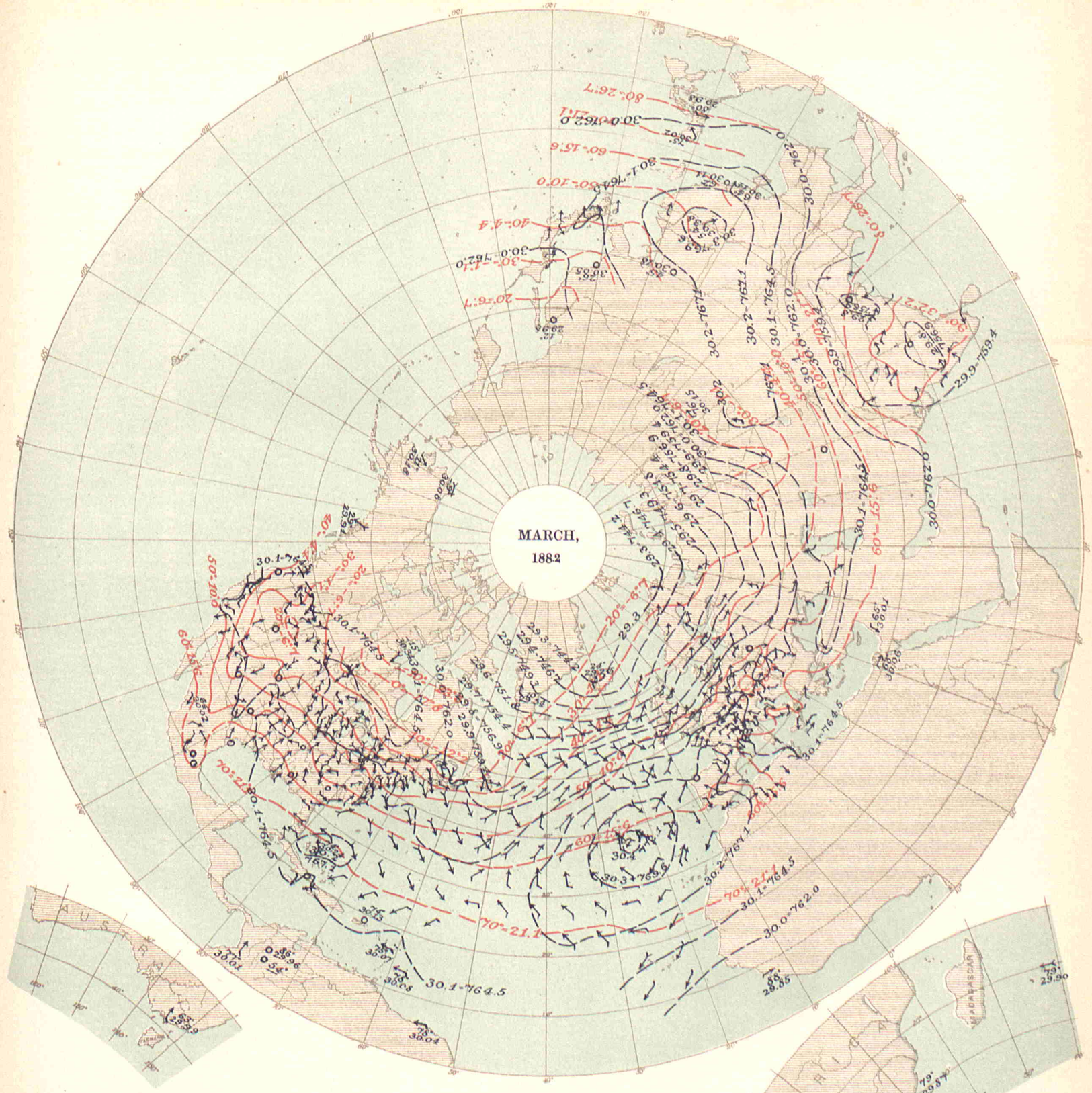
PUBLISHED BY ORDER OF THE SECRETARY OF WAR.

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

Office of the Chief Signal Officer,

UNITED STATES ARMY.

Charted from Actual Observations taken Simultaneously, Series commencing January, 1877.



PREVAILING WINDS.

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

Symbols.	Force.	Velocity.	
		Miles per hour,	Metres per second.
○	0	0	0
→	1, 2	0 to 9	0 to 4.0
→	3, 4	9.1 to 22.5	4.1 to 10.1
→	5, 6	22.6 to 40.5	10.1 to 18.1
→	7, 8	40.6 to 67.5	18.1 to 30.2
→	9, 10	67.6 up.	30.2 & over.

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W. B. Hazen

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

Heliotype Printing Co. Boston.

INTERNATIONAL MONTHLY CHART.

Showing mean pressure, mean temperature, mean force and prevailing direction of winds at 7:00 A. M., Washington mean time, for the month of March, 1882 based on the daily charts of the International Bulletin.

ISOBARS AND ISOTHERMS.

Isobars in *black;* detached barometer means in English inches.

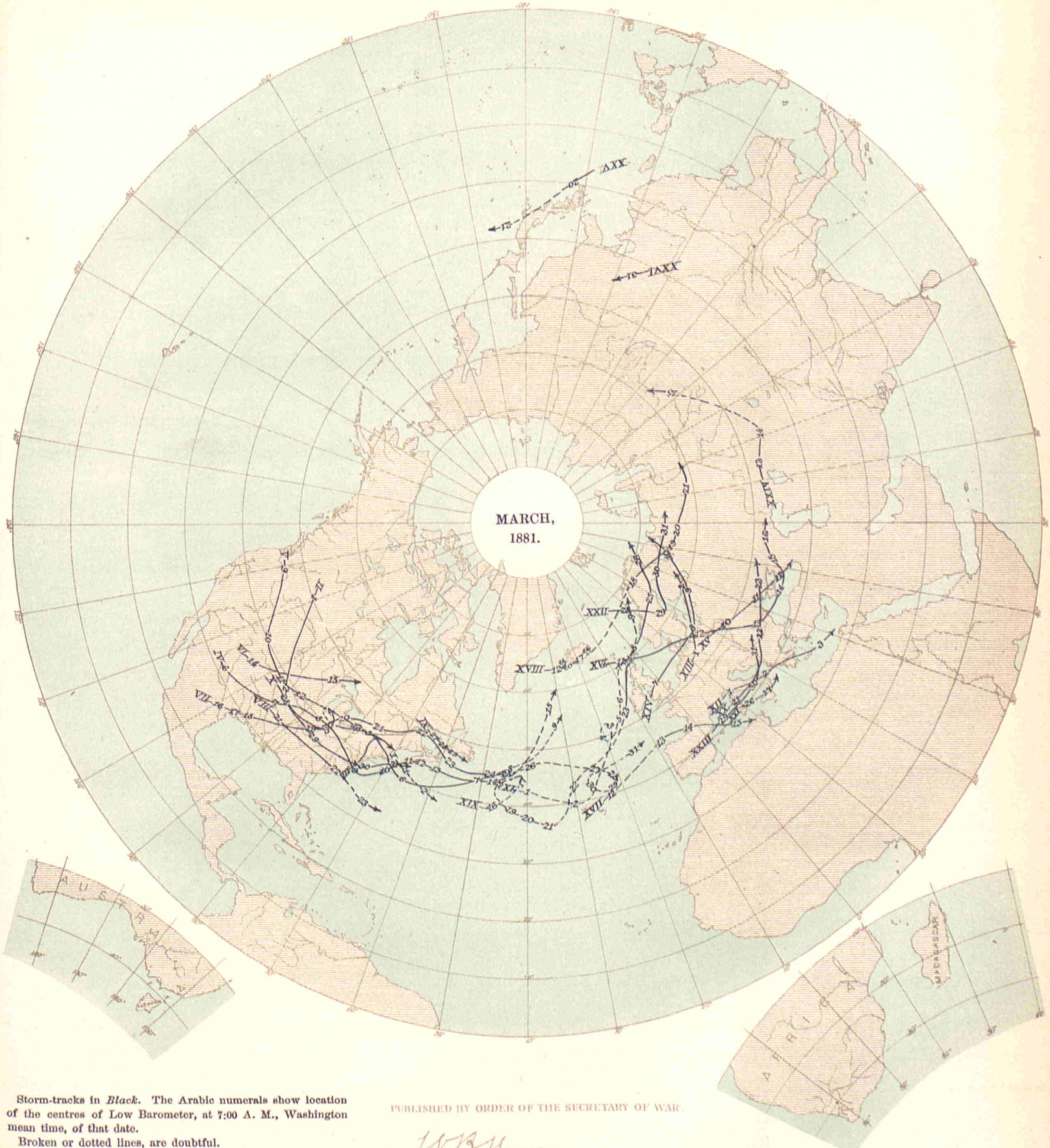
Isotherms in *red;* detached temperature means in degrees Fahrenheit.

Broken lines, are doubtful.

Office of the Chief Signal Officer,

UNITED STATES ARMY.

Charted from Actual Observations taken Simultaneously, Series commencing November, 1877.



Storm-tracks in *Black*. The Arabic numerals show location of the centres of Low Barometer, at 7:00 A. M., Washington mean time, of that date.

Broken or dotted lines, are doubtful.

PUBLISHED BY ORDER OF THE SECRETARY OF WAR.

W. B. Hazen

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

INTERNATIONAL CHART.

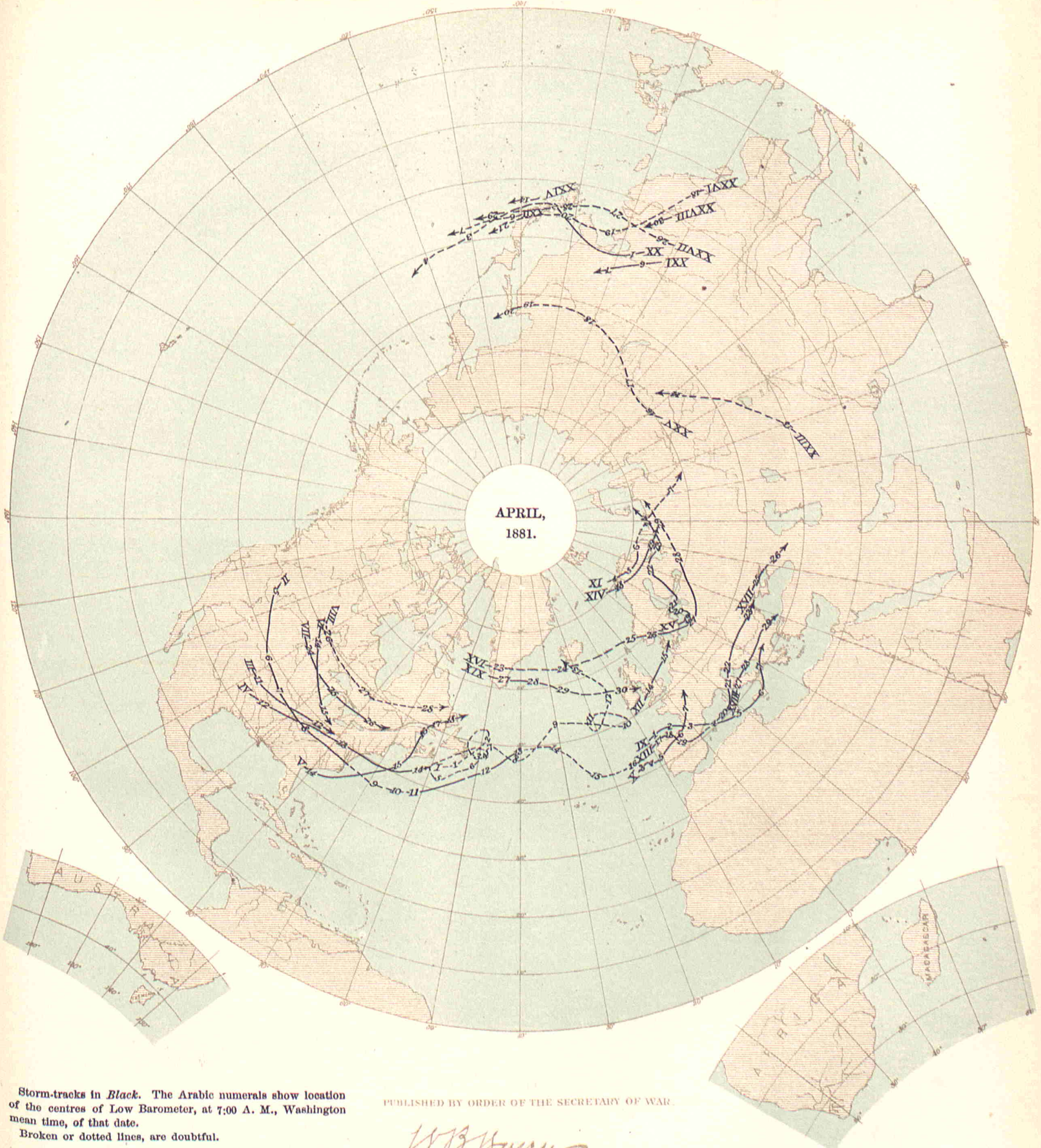
Showing Tracks of Centres of Low Barometer for March, 1881,

Heliotype Printing Co Boston

Office of the Chief Signal Officer,

UNITED STATES ARMY.

Charted from Actual Observations taken Simultaneously, Series commencing November, 1877.



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Chief Signal Officer, U. S. A.

INTERNATIONAL CHART.

Showing Tracks of Centres of Low Barometer for **April, 1881,**

Heliotype Printing Co. Boston.

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

BULLETIN

OF

INTERNATIONAL METEOROLOGY

FOR THE MONTH OF APRIL, 1882.

PRINTED FOR EXCHANGE WITH CO-OPERATING OBSERVERS.

WASHINGTON, D. C.:
MAY, 1883.

615

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON APRIL 1, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind.		Clouds. Direction.		Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.		
Algerian.																			
Nemours	.....	.....	29.91	759.8	66.9	19.4	87	wnw.	.....	.....	4	.....	1	.....	.....	0	0	very fine. ...	Moiroud.
Algiers	.....	.....	29.92	759.9	64.8	18.2	75	nw.	.....	.....	3	.....	2	.....	.....	0	0	fair.....	Nicolas.
La Calle	.....	.....	29.91	759 7	67.3	19.6	74	wsw.	.....	.....	1	.....	5	.....	.....	0	0	cloudy	Fonfréde.
Tunis	.....	.....	29.90	759.5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	29.98	761.6	64.0	17.8	68	n.	.....	.....	1	.....	3	.....	.....	0	0	pretty fair...	Dumas.
Tebessa	.....	.....	29.93	760.1	59.0	15.0	51	w.	.....	.....	2	.....	2	.....	.....	0	0	fair.....	Derché.
Geriville	.....	.....	.....	.....	67.3	19.6	14	sw.	.....	.....	3	.....	3	.....	.....	0	0	pretty fair...	Lonchamp.
Laghouat	.....	.....	30.00	762.1	69.8	21.0	41	s.	.....	.....	3	.....	1	.....	.....	0	0	very fair	Abraham.
Biskra	.....	.....	29.92	760.0	66.6	19.2	26	nw.	.....	.....	1	.....	0	.....	.....	0	0	clear.....	Malau.
Australian.																			
Melbourne, Victoria	30.08	764.0	30.17	766.3	61.3	16.3	83	sse.	6	2.7	.....	.....	10	.....	.....	0	0	dull.....	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.26	743.0	29.78	756.5	66.2	19.0	40	e.	.....	.....	2	.....	0	.....	.....	0	0	.....	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.13	739.9	29.88	759.0	62.6	17.0	45	n.	2.5	1.1	.....	.....	1	.....	.....	0	0	.....	Dr. Wierzbiski.
Eperies	28.98	736.2	29.84	757.9	55.8	13.2	38	calm	.....	.....	0	1 cs	0	.....	.....	0	0	.....	Julius Mikolik.
Gratz	28.60	726.5	29.82	757.5	61.7	16.5	45	se.	.....	.....	3	.....	2	.....	.....	0	0	.....	Andreas Rospini.
Hermannstadt	28.47	723.0	29.85	758.1	66.2	19.0	32	se.	.....	.....	3	.....	0	.....	.....	0	0	fair.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.48	723.4	29.80	756.8	58.6	14.8	62	ene.	.....	.....	3	.....	3	.....	.....	0	0	.....	The Staff.
Lemberg	28.90	734.0	29.87	758.6	61.3	16.3	48	s.	.....	.....	1	.....	0	.....	.....	0	0	.....	Dr. T. Stanecki.
Pola	29.68	753.9	29.79	756.7	57.2	14.0	79	wnw.	.....	.....	2	.....	5	.....	.....	0	0	.....	I. R.Hydrographic Office.
Szathmar	29.39	746.5	29.85	758.1	66.9	19.4	35	e.	.....	.....	1	.....	0	.....	.....	0	0	.....	Joseph Midlinszky, S. J.
Szegedin	29.60	751.7	29.87	758.7	64.2	17.9	40	s.	.....	.....	2	.....	3	.....	.....	0	0	.....	Karl Stancel.
Trieste	29.71	754.6	29.81	757.2	64.8	18.2	52	calm	.....	.....	0	.....	8	.....	.....	0	0	.....	Rieder.
Vienna	29.15	740.4	29.85	758.1	64.6	18.1	34	se.	.....	.....	2	.....	0	.....	.....	0	0	.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.92	760.0	30.02	762.5	43.3	6.3	82	ene.	17	7.6	.....	.....	7	.....	.....	0.040	1.0	squally.....	W. Boswell.
Armagh, Observatory	29.53	750.0	29.78	756.4	48.7	9.3	74	e.	12	5.4	.....	.....	10	.....	.....	.....	.....	overcast.....	S. Ould.
Bidston, Liverpool Obs'y	.....	.....	29.76	755.9	51.0	10.6	72	ese.	19	8.5	.....	.....	8	.....	.....	.....	.....	misty.....	John Hartnup.
Bolton, Sharples	29.26	743.2	29.79	756.7	48.2	9.0	77	e.	12	5.4	.....	.....	9	.....	.....	.....	.....	overcast.....	Thomas Mackereth.
Bradford, Yorkshire	29.40	746.7	29.80	756.9	48.9	9.4	80	se.	.....	.....	1	.....	4	.....	.....	0.06	1.5	d. clouds	J.McLandsborough, F.R
Bridgetown, Barbadoes	29.95	760.7	29.98	761.5	82.0	27.8	59	ne.	.....	.....	3	.....	2	.....	.....	.....	.....	d. clouds....	Corpl.J.Surgenor, A. H.C.
Cardington	.....	.....	29.77	756.1	56.4	13.6	55	se.	.....	.....	1.0	.....	6	.....	.....	.....	.....	d. clouds	John McLaren.
Chatham, School M. E.	29.67	753.6	29.80	756.9	58.0	14.4	43	s.	.....	.....	3	.....	4	.....	.....	.....	.....	d. clouds	Lance Opl. G.A. Pickles.
Falmouth, Observatory	29 36	745.7	29.59	751.6	46.0	7.8	85	se.	.....	.....	1	.....	10	.....	.....	.....	.....	raining.....	The Staff.
Fort Napier, Natal	27.46	697.5	29.68	753.9	79.0	26.1	69	e.	.....	.....	1	.....	0	.....	.....	.....	.....	blue sky.....	Pvt. E. K Annis, A. H.C.
Free Town, Sierra Leone	29.58	751.3	29.82	757.4	88.0	31.1	59	nw.	.....	.....	1	.....	3	.....	.....	.....	.....	d clouds	Sergt. John Robinson.
Galway, Queen's College	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. O'Donaghue.
Gibraltar, Mediterranean	29.96	761.0	30.02	762.5	64.6	18.1	76	nw.	.....	.....	2	.....	8	.....	.....	.....	.....	d. clouds	Opl. O. Baldwin.
Glasgow, Observatory	29.71	754.6	29.91	759.7	46.1	7.8	80	e.	.....	.....	6	.....	7	.....	.....	.....	.....	d. clouds....	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.62	752.3	29.79	756.7	55.5	13.1	63	se.	.....	.....	4	.....	7	.....	.....	.....	.....	d. clouds	The Staff.
Guernsey	29.34	745.2	29.65	753.1	51.5	10.8	83	se.	.....	.....	1	.....	2	.....	.....	blank	blank	d. clouds....	A. Collenette, F. M. S.
Kew, Observatory	29.74	755.4	29.78	756.4	56.3	13.5	80	se.	23	10.3	.....	.....	8	.....	.....	.....	.....	d. clouds	The Staff.
Leicester, Museum	29.54	750.3	29.79	756.7	50.1	10.1	78	se.	.....	.....	1	.....	6	.....	.....	.....	.....	blue sky.....	J. C. Smith.
Malta, Mediterranean	29.74	755.4	29.82	757.4	62.0	16.7	71	nw.	.....	.....	1	.....	1	.....	.....	.....	.....	d. clouds....	I. H. Whysall.
Nassau, Bahamas	30.17	766.3	30.21	767.3	72.5	22.5	71	ne.	.....	.....	3	.....	8	.....	.....	.....	.....	d. clouds....	O. S. Duncombe.
Oscott, St. Mary's College	29.24	742.7	29.76	755.9	55.3	12.9	55	se.	.....	.....	3	.....	6	.....	.....	.....	.....	d. clouds.....	John Mac Email.
Oxford, Radcliffe Obs'y	29.52	749.8	29.75	755.6	54.7	12.6	58	ese.	.....	.....	4	.....	4	.....	.....	.....	.....	squally.....	The Staff.
Plymouth	29.52	749.8	29.60	751.8	49.0	9.4	90	se.	.....	.....	4	.....	10	.....	.....	.....	.....	drizzling	John Merrifield.
Sandwick Manse, Orkneys	.....	.....	30.10	764.5	46.0	7.8	75	e.	19	8.5	.....	.....	8	.....	.....	.....	.....	d. clouds	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.79	756.7	29.86	758.4	51.2	10.7	75	ne.	.....	.....	2	.....	10	.....	.....	.....	.....	gloomy.....	W. H. Lyne
Sheffield	29.56	750.8	29.84	757.9	54.8	12.7	63	e.	.....	.....	2	.....	7	.....	.....	0	0	overcast.....	W. F. Cooper.
Silloth Rectory	29.82	757.4	29.85	758.2	46.9	8.3	79	e.	.....	.....	4	.....	10	.....	.....	0	0	overcast.....	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	29.82	757.4	49.0	9.4	77	ne.	12	5.4	.....	.....	10	.....	.....	.....	.....	d. clouds.....	Rev. S. J. Perry.
Stratfield Turgiss	29.54	750.3	29.75	755.6	54.8	12.7	55	se.	.....	.....	2	.....	6	.....	.....	.....	.....	squally	Rev.C.H.Griffiths, F.M.S.
Truro, Royal Institution	29.51	749.5	29.56	750.8	47	8.3	92	se.	.....	.....	4	.....	10	.....	.....	.....	.....	raining	W. Newcombe.
Valencia, Observatory	29.58	751.3	29.60	751.8	48.9	9.4	66	e.	13	5.8	.....	.....	6	.....	.....	blank	blank	d. clouds	The Met'g'l Office.
Canadian.																			
Bathurst, N. B	.....	.....	.....	.....	10.0	—12.2	.....	calm	0	0	.....	3 cs	0	.....	.....	0	0	fair.....	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.41	772.4	30.45	773.4	7	—13.9	74	w.	10	4.5	.....	0	0	.....	.....	0	0	clear.....	H. J. Cundall, C. E.
Chatham, N. B*	30.40	772.1	30.47	773.9	3	—16.1	87	sw.	4	1.8	.....	0	0	.....	.....	0	0	clear.....	G. A. Blair.
Cornwall, Ontario	29.93	760.2	30.14	765.5	23.5	— 4.7	79	ne.	.....	.....	1	.....	1	.....	.....	inap.	inap.	cloudy	James Smith, M. A.
Dalhousie, N. B	30.23	767.8	30.42	772.7	1.0	—17.2	.....	calm	.....	.....	0	0	5 s	.....	.....	0.30	7.6	fair.....	H. A. Johnson.
Father Point, Quebec*	30.35	770.9	30.37	771.4	6	—14.4	87	sw.	16	7.2	.....	.....	10 s	.....	.....	0	0	cloudy	J. McWilliams.
Fort Garry, Manitoba*	28.79	731.3	29.67	753.6	16	— 8.9	96	e.	7	3.1	.....	hz.	10 ks	.....	.....	0	0	fair.....	James Stewart.
Fredericton, N. B	30.47	773.9	30.54	775.7	5.4	—14.8	93	nw.	1	0.4	.....	0	0	.....	.....	0	0	clear.....	Prof. Harrison.
Granton, Ontario	28.89	733.8	30.03	762.7	35.0	1.7	100	s.	.....	.....	1	8 c	0	sw.	.....	0	0	fair.....	James Grant.
Halifax, N. S*	30.38	771.6	30.52	775.2	12	—11.1	61	w.	9	4.0	.....	0	0	.....	.....	0	0	clear.....	A. Allison.
Hamilton, Ontario	29.61	752.1	30.02	762.5	31.2	— 0.4	77	sw.	.....	.....	1	5 ck	0	sw.	.....	0	0	fair	Geo. Dickson, B. A.
Kingston, Ontario*	29.80	756.9	30.15	765.8	27	— 2.8	100	s.	21	9.4	.....	.....	10 n	.....	.....	0.13	3.3	heavy snow	A. P. Knight, M. A.
Little Glace Bay, N. S	30.36	771.1	30.41	772.4	19.0	— 7.2	89	w.	.....	.....	2	4 k	0	w.	.....	0	0	fair.....	C. H. Rigby.
Montreal, Quebec*	30.03	762.7	30.25	768.3	20	— 6.7	64	s.	16	7.2	.....	.....	10 s	.....	.....	0	0	cloudy	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.30	744.2	30.02	762.5	27	— 2.8	88	se.	11	4.9	.....	2 k	2 k	sw.	sw.	0.08	2.0	fair.....	Rev. R. Mosley.
Peterboro, Ontario	29.32	744.7	30.09	764.3	33.7	0.9	89	calm	.....	.....	0	9 k	0	.....	.....	0.05	1.3	cloudy	J. Dixon, B. A.
Port Dover, Ontario	29.37	746.0	30.08	764.0	39	3.9	91	s.	7	3.1	.....	10 k	0	sw.	.....	0	0	cloudy.....	H. Morgan.
Port Stanley, Ontario	29.40	746.7	30.07	763.8	36	2.2	85	e.	11	4.9	.....	hz.	2 k	w.	.....	0	0	hazy.....	M. Payne.
Quebec, Quebec*	29.99	761.7	30.35	770.9	4	—15.6	83	ne.	.....	.....	1	.....	hz.	.....	.....	0	0	hazy.....	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.57	751.1	30.06	763.5	20	— 6.7	80	se.	5	2.2	.....	.....	10 s	.....	se.	0.21	5.3	light snow..	W. H. McIntyre.
Saugeen, Ontario*	29.23	742.4	29.96	761.0	40	4.4	57	s.	6	2.7	.....	.....	8 ks	.....	.....	0	0	cloudy	
St. Andrews, N .B	30.45	773.4	30.50	774.7	11	—11.7	84	nw.	4	1.8	.....	0	0	.....	.....	0	0	clear.....	
St. John, N. B	30.35	770.9	30.53	775.4	11.0	—11.7	59	nw.	4	1.8	.....	0	0	.....	.....	0	0	clear.....	G. Murdock, C. E.
St. Pierre, N. F	.....	.....	29.767	755.97	10.4	—12.0	.....	nw.	.....	.....	4	.....	.....	.....	.....	0	0	.....	N. F. Land, Com't.
Stratford, Ontario	28.70	729.0	30.02	762.5	35.0	1.7	70	sw.	8	3.6	.....	.....	10 s	.....	.....	0	0	cloudy	C. I. Macgregor, M. A.
Sydney, C. B*	30.32	770.1	30.39	771.9	12	—11.1	80	w.	14	6.3	.....	10 k	0	w.	.....	0	0	fair.....	T. C. Hill, C. E.
Toronto, Ontario*	29.68	753.9	30.08	764.0	33	0.6	88	se.	3	1.3	.....	.....	10 ks	.....	w.	0	0	cloudy..	Magnetic Observatory.
Windsor, N. S	30.38	771.6	30.49	774.4	12.0	—11.1	71	nw.	7	3.1	.....	0	0	.....	.....	0	0	clear.....	Prof. W. R. Butler.
Woodstock, Ontario	28.97	735.8	30.06	763.5	38.6	3.7	84	calm	0	0	.....	3 c	5 s	w.	.....	0	0	cloudy.....	Prof. Wolverton
Yarmouth, N. S*	30.46	773.7	30.53	775.4	17	— 8.3	70	nw.	1	0.4	.....	0	0	.....	.....	0	0	clear.....	Lt. F. E. Wilmot, R. N.
Sub-arctic.																			
St. Johns, Newfoundland	29.99	761.7	30.26	768.6	22	— 5.6	.....	sw.	2	0.9	.....	5 k	5 s	.....	.....	0	0	fair.....	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	29.96	761.0	29.99	761.7	68.0	20.0	88	w.	19.3	8.6	.....	.....	10 n	.....	.....	0	0	hazy.....	John Duthie.
Cape Town, O. G. H. Obs'y	29.94	760.5	29.98	761.5	73.6	23.1	62	s.	24	10.7	.....	0	2	.....	.....	0	0	.....	The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Chinese (*Sub-series*).																			
Hankow	29.75	755.6	30.03	762.7	61.0	16.1	97	nne.			2		10			0	0		N. Titoushkin.
Zi-Ka-Wei, near Shanghai.	29.93	760.2	29.95	760.8	53.6	12.0	90	se.	20.8	9.3			3 k		ese.	0	0	clear	M. Marc Dechevrens, S.J.
Danish.																			
Copenhagen	30.02	762.4	30.06	763.6	42.3	5.7	90	se.	16	7			1c						Oversergent Fischer.
Fande	30.00	761.9	30.02	762.4	48.9	9.4		calm			0		5						Overloerer Lauridsen.
Godthaab, Greenland	29.29	744.0	29.34	745.1	29.8	— 1.2		s.			6		10						S. Kleinschmidt.
Stykkisholm, Iceland	30.26	768.5	30.30	769.6	34.9	1.6	96	calm			0		10					foggy	A. O. Thorlacius
Thorshavn	30.22	767.7	30.26	768.6	42.8	6.0	75	ne.	16	7			1c						Overloerer Bergh.
Vestervig	29.94	760.4	30.03	762.7	45.5	7.5	82	ssw.			2		6						Loearer Oesterbol.
French.																			
Agen, Normal School	29.13	739.9	29.78	756.5	58.6	14.8	76	s.			1		kn		nw.	0	0		M. Labroue, Director.
Alençon, Normal School	29.19	741.4	29.74	755.4	53.6	12	76	s.			1		kn	sw.	sw.	0	0		M. Nicot, Director.
Arras, Engineer School	29.55	750.6	29.81	757.2	54.5	12.5	70	se.			2	0	5 kn			0	0	cloudy	Capt. Bertrand, Dir.
Avignon, Normal School	29.72	754.9	29.80	756.9	66.2	19	46	sw.			1		2		s.	0	0	slightly cl'dy	M. Giraud, Director.
Bar-sur-Seine	29.23	742.5	29.78	756.3	59.0	15.0	41	se.			1		6			0.020	0.5	cloudy	M. Saillard, Director.
Beauvais, Normal School	29.53	750.1	29.80	756.8	57.0	13.9	47	se.			1		8			0.012	0.3	very cloudy	M. Frère Eugène Mari.
Besançon, Normal School	28.84	732.6	29.72	755.0	57.2	14	57	ne.			1	0	5 cn		n.	0	0	cloudy	M. Gobin, Director.
Bordeaux, Observatory	29.43	747.5	29.69	754.0	56.3	13.5	61	s.			1		8		ssw.	0.079	2.0	very cloudy	M. Rayet, Director.
Bourges, Normal School	29.17	740.9	29.72	754.8	59.0	15	39	se.			1		k		se.	0.035	0.9		M. Postel, Director.
Brest, Naval Observatory	29.35	745.6	29.60	751.8	53.6	12.0	73	ese.			1		10		ese.	0.177	4.5		M. de Kermaree, Dir.
Caen, Normal School	29.00	753.4	29.74	755.3	56.8	13.8	70	se.			4		5		se.	0	0	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.45	748.1	29.77	756.1	60.4	15.8	81	calm			0		2			0.059	1.5	slightly cl'dy	M. Judot, Director.
Charleville, Normal School	29.33	744.9	29.84	758.0	55.0	12.8	55	se.			3		0			0	0	clear	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.37	720.7	29.71	754.6	57.6	14.2	34	e.			1		8			0.012	0.3	¾ covered	M. Alluard, Director.
Cluny, Normal School	28.93	734.9	29.78	756.3	58.3	14.6	29	ne.			3				ne.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	28.97	735.7	29.83	757.7	54.9	12.7	50	e.			1	2 cs		e.	e.	0.012	0.3	slightly cl'dy	Dr. Coulet, Director.
Gap, Normal School	27.35	694.6	29.88	759.0	48.9	9.4	46	sw.			3		4 k		nw.	0	0		M. Jeangirard, Director.
Gréasque, du. Rhone	28.09	728.8	29.81	757.1	58.8	14.9	52	s.			3		5		s.	0	0		M. Kina, Director.
Grenoble, Normal School	29.00	736.6	29.76	755.9	57.2	14	48	ese.			1		kn		s.	0	0		M. Ablard, Director.
Guéret, Normal School	28.07	713.0	29.62	752.3	55.4	13	25	sw.			1		kn		sw.	0	0		M. Rivoire, Director.
Lamballe, Normal School	29.39	746.6	29.67	753.5	50.4	10.2	84	se.			2		8		se.	0	0	very cloudy	M. Olliffault, Director.
Lescar, Normal School	29.13	740.0	29.69	754.2	60.8	16	52	w.			1		5			0.04	1.	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	29.52	749.7	29.62	752.3	49.1	9.5	92	se.			3		10		s.	0.394	10.0	covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.74	729.9	29.78	756.4	57.6	14.2	40	se.			1		0			0	0	solar halo	M. André, Director.
Mans, Normal School	29.43	747.4	29.73	755.2	55.0	12.8	58	s.			3		2		s.	0	0	slightly cl'dy	M. Piboen, Director.
Marseille, Observatory	29.50	750.8	29.83	757.6	61.3	16.3	59	se.			2		6		ssw.	0	0		M. Stephan, Director.
Montlouis l'instituteur	24.55	623.5	29.39	746.5	40.6	4.8	56	sw.	16.8	7.5			7	w.					M. Cuve, for Dr. Fines.
Montpellier, Normal School	29.60	753.4	29.79	756.7	58.3	14.6	58	ene.			2		0			0	0	thund'r;lt'n	M. Galzin, Director.
Nancy, Normal School	29.05	737.8	29.83	757.6	55.4	13	47	nw.			1	0	5 k			0	0	cloudy	M. Hasse, Director
Nantes, Observatory	29.52	749.9	29.69	754.0	57.0	13.9	61	sse.			0-2		8k;kn	sse.	sse.	0	0		M. Larocque, Director.
Perpignan, Observatory	29.03	752.5	29.73	755 2	62.2	16.8	39	s.	9.4	4.2			2	wsw.	w.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	20.88	530.4			23.7	— 4.6		w.			1		10		w.	0.126	3.2	snowing	Gen'l de Nansouty, Dir.
Privas, Normal School	28.72	729.6	29.78	756.3	59.0	15	39	s.			1		1		s.	0	0	clear	M. Tailleu.
Puy de Dôme Obs'y, Summit	24.87	631.6			34.0	1.1	85	s.			2	0	8 k			0.059	1.5	showery	M. Alluard, Director.
Rochefort, Naval Obs'y	29.03	752.6	29.66	753.4	60.4	15.8	89	sse.			2		8		s.	0	0	¾ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.40	748.2	29.67	753.6	52.2	11.2	70	s.			1		10			0.055	1.4	covered	M. Mouillot, Director.
Rodez, Normal School	27.62	701.5	29.76	756.0	55.4	13	59	e.			2		0			0	0	clear	M. Serger, Director.
Rouen, Normal School	29.73	755.2	29.78	756.4	55.8	13.2	68	sse.			3		2			0	0	slightly cl'dy	M. Brotier.
Saint Maur, Observatory	29.62	752.4	29.79	756.6	56.5	13.6	44	se.			1		7		s.	0	0	cloudy	M. Renou, Director.
Toulouse, Observatory	29.02	737.2	29.74	755.3	64.8	18.2	28	se.			2		5	w.		0	0	cloudy	M. Baillaud, Director.
Versailles, Observatory	29.31	744.4	29.80	756 9	54.0	12.2	48	se.			2					0	0		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.51	749.5	29.80	756.9	60.3	15.7	39	ese.			1		8		sse.	0	0		M. Marié Davy, Director
German.																			
Bamberg	29.01	736.9	29.86	758.5	57.2	14.0	50	nw.			3	0	6 k		s.	0	0		Prof. Dr. Hoh.
Berlin	29.78	756.5	29.96	760.9	58.6	14.8	49	n.			2		8					light rain	Prof. Dr. Arndt.
Breslau	29.41	747.1	29.94	760.5	62.2	16.8	53	ne.			1		3			0	0		Royal University Obs'y.
Carlsruhe	29.39	746.6	29.83	757 6	56.8	13.8	49	ne.			2		1	se.		0	0		Albert Senz.
Cassel	29.16	740.6	29.87	758.7	56.8	13.8	46	ne.			2		5	se.		0.008	0.2	thund'r st'm	Dr. H. Möhl.
Frankfort on the Main	29.51	749.6	29.87	758.8	55.4	13.0	58	nne.			1		1			0	0		Physical Society.
Friedrichshafen	28.34	719.8	29.77	756.1	51.8	11.0	61	sw.			1		2	sw.		0	0		Wilhelm, Chief Tel.
Hamburg	29.93	760.3	30.03	762.7	50.2	10.1	69	e.			3		6			0.004	0.1		E. Preller.
Kiel	29.99	761.8	30.01	762.2	49.1	9.5	72	ne.			2		3			0.035	0.9		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.53	750.0	29.95	760.7	51.8	11.0	63	ne.			2		9	ese.				sprinkling	H. Leppig, Asst.
Magdeburg	29.78	756.4	29.97	761.3	54.5	12.5	53	ene.			1	0	7 ks;k		ssw.	0.224	5.7		Dr. Assmann.
Memel	29.98	761.6	30.03	762.8	39.2	4.0	92	ne.			4		10 8					raining	Issermann.
Munich	27.97	710.5	29.82	757.4	57.4	14.1	47	se.			1		2	e.		0	0		Central Station
Neufahrwasser	29.98	761.4	29.99	761.8	46.9	8 3	88	ne.			1		10			0.122	3.1		A. Lothes.
Neustadt, Palatinate	29.31	744.5	29.84	757.8	54.9	12.7	56	ene.			2		7	ne.		0	0		Dickmether.
Stuttgart	28.85	732.9	29.73	755.2	57.7	14.3	45	e.			1		6	sw.		0	0		Prof. Dr. Schoder.
Wustrow	30.03	762.7	30.06	763 4	46.9	8.3	92	n.			3	0	5 8			0	0		Profs. Brandes & Reimer
Greek.																			
Athens	29.44	747.8	29.84	757.8	59.0	15.0		ne.			2.5	10	0			inap.	inap.	covered	Schmidt & Wourlisch
Indian.																			
Kurrachee	29.89	759.2	29.94	760.5	80.0	26.7	51	wnw.	22.0	9.8			9	w.		0	0	gloomy	
Deesa	29.30	744.3	29.76	756.0	96.1	35.6	18	wnw.	9.7	4.3		10	nw.	nw.		0	0	overcast	
Bombay	29.75	755.7	29.79	756.6	85.8	29.9	79	w.	10.0	4.5			2		w.	0	0	d. clouds	
Poona, Yarrowda.	27.99	710.9	29.85	758.1	77.2	25.1	69	w.	12.0	5.4			10		w.	0.73	18.5	thund'r st'm	
Belgaum	27.26	692.5	29.77	756.1	81.6	27.6	63	w.	12.0	5.4			0			0	0	misty	
Lahore	29.01	736.8	29.74	755.3	89.9	33.2	28	w.	1.3	0.6			10			0	0	overcast	
Roorkee	28.78	731.1	29.66	753.4	90.4	32.4	15	nw.	4.0	1.8			6			0	0		
Agra	29.17	740.8	29.71	754.7	95.1	35.1	14	w.	7.2	3.2			2		w.	0	0		
Nagpur	28.67	728.3	29.67	753.6	101.7	38.7	9	calm	3.2	1.4			0			0	0	blue sky	
Jubbulpore	28.39	721.1	29.69	754.2	99.5	37.5	12	calm	2.1	0.9			0			0	0	blue sky	
Lucknow	29.27	743.4	29.63	752.5	99.0	37.2	13	wnw.	12.1	5.4			0			0	0	blue sky	
Allahabad	29.35	745.4	29.65	753.0	96.7	35.9	17	nw.	6.9	3.1			3	nw.		0	0	d. clouds	
Patna	29.46	748.3	29.64	752.8	96.1	35.6	11	w.	7.4	3.3			0			0	0	blue sky	
Hazaribagh	27.69	703.4	29.63	752.7	94.3	34.6	8	nw.	8.2	3.7			0			0	0	squally	
Cuttack	29.64	752.7	29.72	754.8	86.9	30.5	61	s.	5.3	2.4			1			0	0		
Calcutta, Alipore	29.67	753 7	29.70	754.2	86.3	30.2	70	s.	9.0	4.0			0			0	0	blue sky	
Dhubri	29.53	750.1	29.65	753.1	78.5	25.8	78	ene.	13.2	5.9			0			0	0	blue sky	
Chittagong	29.72	754.9	29.81	757.2	80.2	26.8	81	ssw.	6.2	2.8			3			0	0	blue sky	
Sibsagar	29.43	747.4	29.77	756.1	69.4	20.8	97	ne.	4.0	1.8			10	w.	w.	1.91	48.5	overcast	
Jeypore	28.33	719.7	29.74	755.4	92.4	33.6	10	nw.	7.0	3.1			9		nw.	0	0	d. clouds	
Zanzibar, Africa	29.84	757.9			85.7	29.8	63	ssw.	7.0	3.1			4			0	0	d. clouds	
Bellary	28.28	718.3			98.3	36.8	17	se.	3.8	1.7		2 c	0			0	0	blue sky	
Trichinopoly	29.54	750.3			95.3	35.2	31	calm	0	0			0			0	0	blue sky	
Italian.																			
Udine	29.41	746.9	29.82	757.3	66.0	18.9	32	calm	0	0			8			0	0		Prof. Giovanni Clodig.
Milan	29.33	745.0	29.85	758.1	59.4	15.2	47	nw.	4.9	2.2			9	sse.		0	0		Prof. Schiaparelli.
Padua	29.71	754.5	29.82	757.3	61.1	16.1	43	ese.	3.1	1.4			0			0	0		Prof. Dott. Lorenzoni.
Moncalieri	28.95	735.4	29.85	758.3	54.0	12.2	60	e.	4.9	2.2			10			0	0		Prof. P. F. Denza.
Genoa	29.64	752.9	29.83	757.7	57.6	14.2	61	sw.	1.3	0.6			10	sw.		0.008	0.2		Prof. G. M. Garibaldi.
Mondovi	27.93	709.4	29.85	758.2	50.7	10.4	71	w.			4		8			0.063	1.6		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
ITALIAN.—Continued.																			
Pesaro	29.77	756.1	29.82	757.3	52.9	11.6	88	n.	10.5	4.7			0			0	0		Prof. Luigi Guidi.
Florence	29.56	750.7	29.81	757.1	63.7	17.6	56	wnw.			2		10	se.		0	0		Prof. Costantino Pitter.
Leghorn	29.72	755.0	29.81	757.2	61.0	16.1	67	w.	0	0			8			0	0		Prof. P. Monte.
Rome	29.62	752.3	29.79	756.7	64.9	18.3	48	wsw.	9.4	4.2			2			0	0		Prof. P. S. Ferrari.
Lecce	29.57	751.1	29.82	757.5	53.2	11.8	81	nw.	6.3	2.8			7	n.		0.189	4.8		Prof. C. de Giorgi.
Cosenza	28.91	734.2	29.80	756.8	57.6	14.2	74	ene.	2.5	1.1			9	ne.		0.039	1.0		Prof. D. Conti.
Cagliari	29.61	752.2	29.81	757.1	63.1	17.3	43	nw.			2		6	w.		0	0		Prof. A. Pacinotti.
Palermo	29.60	751.8	29.85	758.1	60.6	15.9	63	nne.	6.9	3.1			8	wsw.		0.118	3.0		Prof. G. Ciacciatore.
Syracuse	29.74	755.4	29.78	756.5	60.1	15.6	78	ese.	6.9	3.1			10	wnw.		0.102	2.6		Prof. Vincenzo Guiliano.
Sub-series.																			
Naples, S. R	29.26	743.1	29.77	756.2	61.9	16.6	69	sw.	1.8	0.8			8	sw.		0.059	1.5		Prof. T. Brioschi.
Stelvio	21.96	557.9			34.5	1.4	65	ne.			2		8			0	0	misty	Prof. P. F. Denza.
Valdobbia	21.97	558.0			25.0	— 3.9	89	e.			6		10			0.276	7.0	covered	Prof. P. F. Denza.
JAPANESE.																			
Aomori	29.69	754.1	29.73	755.1	41.2	5.1	94	calm	0	0			10 s			0	0	overcast	K. Ogawa.
Hakodate	29.71	754.6	29.72	754.9	39.5	4.2	88	n.	15.0	6.7			10			0.367	9.3	overcast	
Hiroshima, I. M. Obs'y †	30.07	763.8	30.08	764.0	54.0	12.2	75	ne.	4.4	2.0		10ck;cs	0			0	0	overcast	K. Sasaki.
Kanazawa	30.03	762.7	30.13	765.3	48.9	9.4	87	w.	5.5	2.5		ck	10 ks			0.210	5.3	overcast	S. Endo.
Kioto	29.98	761.5	30.06	763.5	54.0	12.2	68	n.	6.6	2.9		6ck;cs	0			0.080	2.0	fair	M. Tojima.
Kochi	30.05	763.3	30.08	764.0	61.0	16.1	62	ne.	21.0	9.4			10 s			0	0	cloudy	
Nagasaki, I. M. Obs'y	29.92	759.9	30.13	765.3	53.7	12.1	93	ssw.	0.7	0.3		2 c	0			0.050	1.3	clear	S. Takehayashi.
Nilgata	29.86	758.4	29.90	759.4	49.0	9.4	85	w.	44.0	19.7		10 ck	0	w.		0.270	6.9	cloudy	
Nobiru	29.68	753.9	29.69	754.1	53.7	12.1	68	wsw.	13.8	6.2		3 cks	0	w.		0.155	3.9	fair	H. Midzushima.
Supporo					38.0	3.3	96	w.	1.8	0.8			10			0	0	covered	
Tokei Obs'y, Yeddo	29.75	755.6	29.82	757.4	53.7	12.1	91	nnw.	4.0	1.8		4 c;cs	0			0.114	2.9	fair	The Staff.
Wakayama	30.02	762.5	30.07	763.8	56.4	13.6	68	nw.	6	2.7		10 ck	0	w.		0	0	cloudy	Y. Kuwamuea.
MAURITIUS.																			
Mauritius Observatory	29.76	755.9	29.95	760.7	78.5	25.8	78	e.	18.0	8.0		o	6 ks;n		ese.	0.06	1.5	fair	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.76	603.4	29.98	761.4	67.1	19.5	62	sw.				6 cs	0	sw.		0	0	fair	Vicente Fernandez.
Leon	24.43	620.5	30.12	765.0	57.6	14.2	81	n.			1	5 c	2 s	sw.		0	0		Prof. M. Leal.
Mazatlan	29.71	754.7	29.94	760.4	64.5	18.1	86	ne.	0.9	0.4		c	1		s.	0	0	light haze	F. Quijano, C. E.
Mexico, Central Obs'y	23.14	587.8	30.23	767.9	53.6	12.0	85	calm	0	0		0	2 k			0.449	11.4	fine	The Staff.
Morelia	24.25	616.0	30.38	771.8	59.5	15.3	72	sse.			5	2	3		se.	inap.	inap.	½ clouded	M. Tena, M. D.
Pabellon, Aguascalientes	23.99	609.4	30.04	762.9	59.0	15.0	72	calm			0	2 c	0	sw.		0	0	clear	M. Y. de Leon, M. E.
Puebla, Catholic Institute	23.41	594.6	30.11	764.7	55.4	13.0	81	calm	0	0		0	1	w.		0.01	0.2	clear	Prof. P. Spina.
San Luis Potosi	24.26	616.3	30.16	766.0	61.9	16.6	73	sse.			1	c	6		w.	0	0	½ clouded	G. Barroeta, M. D.
Zacatecas	22.62	574.4	30.32	770.0	51.8	11.0	88	w.	4.8	2.1		5 c	0	w.		0	0	⅛ clouded	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.89	759.3	29.89	759.3	52.7	11.5		ese.			3					0.028	0.7		
Groningen	29.92	760.0	29.98	761.4	51.3	10.7		e.			1					0	0		
Helder	29.94	760.5	29.94	760.5	48.6	9.2		e.			1					0.020	0.5		
Hellevoetsluis	29.90	759.4	29.90	759.4	53.6	12.0	57	e.			2					0.047	1.2		
Utrecht	29.88	759.0	29.93	760.2	54.1	12.3	48	sse.			1		2			0	0	lightly cl'dy	H. van der Brink.
NORWEGIAN.																			
Bergen	30.02	762.4	30.08	764.0	46.8	8.2	39	w.	4	2			1			0	0		
Brono	30.12	765.1	30.16	766.1	42.4	5.8	58	ne.	4	2			0			0	0		
Christiania	30.07	763.7	30.22	767.6	39.6	4.2	68	e.	4	2			10			0	0		
Gjæsvær	29.94	760.5	29.97	761.1	30.0	— 1.1		w.			6		10					snowing	
Lodingen	30.06	763.6	30.11	764.8	34.3	1.3	78	sw.			2		10					snowing	
PORTUGUESE.																			
Angra, Azores					60.8	16.0	79	n.	6.9	3.1			4			0	0		Dr. J. A. Sampaio.
Campo Major	28.87	733.4	29.87	758.7	59.0	15.0	47	ssw.	7.4	3.3			8			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.02	762.5	30.11	764.8	62.1	16.7	56	wsw.					7			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.58	751.2	29.94	760.4	56.5	13.6	63	wsw.	9.8	4.4			10			0.024	0.6	raining	The Staff.
Ponta Delgada, Azores	30.04	763.1	30.11	764.9	60.8	16.0	81	wnw.	9.4	4.2			10			0.126	3.2	raining	
Saint Paul de Loando	29.63	752.5	29.82	757.5	82.4	28.0	91	wsw.	0.7	0.3			9			0	0		
Serra da Estrella	25.01	635.3	29.89	759.2	30.6	— 0.8	100	wnw.	24.8	11.1			10			0.122	3.1	fog & snow	
RUSSIAN.																			
Akmolinski	29.35	745.4	30.52	775.1	18.5	— 7.5	75	ese.				o	o			0	0		Major K. Lasarew.
Archangel	30.09	764.3	30.11	764.8	29.8	— 1.2	96	ssw.	2	1			10			0	0		Capt. Sselliwerstow.
Astrakhan	30.11	764.8	30.03	762.7	47.1	8.4	70	se.	2	1		cs	5 s			0	0	light clouds	Capt. Wisganow.
Barnaul	30.24	768.1	30.79	782.0	19.8	— 6.8	68	n.	4	2			0			0	0		Meteorological Obs'y.
Dorpat	29.83	757.6	30.08	764.0	38.1	3.4	83	n.	4	2			10 n			0	0		Observatory.
Ekaterinburg	29.30	744.2	30.31	769.8	34.2	1.2	68	se.	11	5			6			0	0		Meteorological Obs'y.
Kasan	29.82	757.5	30.11	764.7	28.9	— 1.7	92	ese.	9	4			10			0.067	1.7	snowing	Observatory.
Kertch	29.95	760.6	29.97	761.1	55.2	12.9	51	nne.	7	3		o	o			0	0		Lagorio & Sastyrez.
Kieff	29.27	743.4	29.89	759.3	58.8	14.9	62	calm	0	0		c;ck	4 ks			0.004	0.1		Observatory.
Lugan	29.71	754.7	29.91	759.8	59.9	15.5	53	wnw.	9	4			9			0	0		Meteorological Obs'y
Moscow	29.34	745.1	29.82	757.4	39.9	4.4	80	nw.	7.8	3.5			9 ks			0	0		Meteorological Obs'y.
Nikolaiev	29.94	760.4	30.01	762.2	67.1	19 5	48	ssw.	4	2		o	o			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor	29.91	759 8	30.00	762.0	32.7	0.4	90	se.	10	7			10			0	0		Lieut. Iwanow.
Pekin, China	29.75	755 7	29.89	759.3	61.0	16.1	56	calm	0	0			10 n			0	0		Physical Observatory
St. Petersburg	30.03	762.8	30.05	763.2	43.9	6.6	42	ne.	11	5		o	1 ks;s			0	0		Central Physical Obs'y
Ssemipalatinsk	30.00	761.9	30.71	780.1	20.1	— 6.6	71	n.	16	7		o	o			0	0		Major Lasaren.
Tashkend, Laboratory	28.35	720.2	29.91	759.8	59.0	15.0	59	nw.	13	6			9			0	0		Telch, A. M.
Tiflis	28.52	724.5	29.91	759.7	65.8	18.8	40	se.	2	1			9 s					light rain	Physical Observatory
Vladivostok	29.95	760.7	30.02	762.4	37.6	3.1	100	calm	0	0		o	8 k			0	0	light clouds	
Warsaw	29.51	749.6	29.93	760.2	59.9	15.5	50	nnw.	9	4		o	o						Astronomical Obs'y
Wilna	29.56	750.9	29.99	761.7	44.2	6.8	94	nne.	4	2			10			0.256	6.5	heavy cl'ds.	Berg, Assistant.
Yeniseisk	30.33	770.3	30.63	778.1	28.0	— 2.2	44	w.	2	1			1			0	0		M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	29.69	754.1	29.80	756.8	60.1	15.6	75	s.	4.3	1.9			6			0	0	½ covered	Antonio Rave, Director.
Bilbao, Met. Obs'y	29.69	754.2	29.75	755.7	56.8	13.8	74	nw.	3.1	1.4		2	7	w.		0.043	1.1	almost cov'd	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	26.79	680.5	29.84	757.8	39.6	4.2	78	sw.	10.5	4.7			10			0	0	covered	Domingo Martin.
Madrid, Royal Obs'y	27.58	700.6	29.83	757.6	50.7	10.4	67	w.	26.2	11.7		o	8			0	0	almost cov'd	The Staff.
Murcia, Met. Obs'y	29.68	753.8	29.82	757.5	68.5	20.3	49	nnw.	2.0	0.9		4	4	se.		0	0	cloudy	Olayo Diaz, Director.
Santiago, Met. Obs'y	28.81	731.7	29.71	754.5	52.5	11.4	77	sw.	14.3	6.4			10			0.811	20.6	hailing	R. Gil Vallanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I	30.01	762.3	30.08	764.0	72.3	22.4	86	ese.	2.2	1.0			10 n		e.	0.717	18.2	raining	Benito Vines, S. J.
Manilla, Philippine Islands	29.94	760.5	30.00	762.0	82.4	28.0	60	nne.	5.1	2.3		2 cs	1 ks		e.	0	0	clear	F. Faura, S. J.
San Fernando, Naval Obs'y	29.91	759.8	30.01	762.3	60.8	16.0	59	w.	6.8	3.0		o	8		w.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	30.03	762.8	30.12	765.1	72.3	22.4	90	calm	0	0		5 k	2 kn	s.	s.	0	0	cloudy	Manuel Maeu.
Tuguegarao, Philippine Id's	29.88	758.9	30.01	762.2	82.0	27.8	72	s.	7.4	3.3			9 ks		ssw.	0	0	covered	José L. Yrastorza.
SWEDISH																			
Haparanda	30.16	766.1	30.20	767.1	25.5	— 3.6	74	s.			2		0			0	0		
Umea	30.18	766.6	30.23	767.9	37.4	3.0	50	sw.			2		6			0	0		
Hernosand	30.23	767.8	30.28	769.1	38.7	3.7	69	calm			0		2			0	0		
Stockholm	30.03	762.8	30.21	767.3	37.8	3.2	33	ne.			6		0			0	0		
Wisby	29.89	759.1	29.95	760.6	38.5	3.6	83	ne.			4		7			0	0		
Sub-series.																			
Upsala	30.11	764.7	30.19	766.9	38.5	3.6	41	nne.	12.5	5.6			0			0	0		S. G. Fineman.
SWISS.																			
Geneva	28.39	721.2	29.83	757.6	52.5	11.4	43	nne.			2					0	0	covered	The Observatory

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
TURKISH.																			
Constantinople			29.91	759.8	50.4	10.2	76	n.	17	7.5			10		ne.	0	0		The Observatory.
Valona			29.84	757.8	65.3	18.5		sw.			1		5			0	0	cloudy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.78	756.5	62.1	16.7	98	n.			2		10 n		sw.	0	0		Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	30.34	770.6	30.42	772.7	34	1.1	74	s.	9	4.0		10 cs	0			0	0	cloudy	J. O. Barnes.
Alpena, Michigan	29.25	742.9	29.94	760.5	33	0.6	78	s.	2	0.9		10 cs	sk.			0	0	cloudy	Jas. J. Fitzgerald.
Atlanta, Georgia	29.18	741.2	30.37	771.4	56.0	13.3	57	e.	7	3.1		4 k	5 s	nw.	calm	0	0	cloudy	H. Hall.
Atlantic City, New Jersey	30.46	773.7	30.47	773.9	40.8	4.9	67	se.	11	4.9			10 s			0	0	cloudy	Jas. M. Watson.
Augusta, Georgia	30.22	767.6	30.41	772.4	58.0	14.4	80	se.	1	0.4		4 ck	5 s	w.		0	0	cloudy	John Healy.
Baltimore, Maryland	30.43	772.9	30.48	774.2	40	4.4	82	sw.	8	3.6			10 s		sw.	0	0	cloudy	Robert Seyboth.
Barnegat, New Jersey	30.46	773.7	30.48	774.2	40.3	4.6	85	s.	19	8.5			10 s		w.	0	0	cloudy	Chas. F. Merritt.
Bismarck, Dakota	27.89	708.4	29.77	756.1	42	5.6	76	ne.	2	0.9		2 c	0			0	0	clear	Cyrus Cramer.
Boise City, Idaho	27.24	691.9	30.08	764.0	46	7.8	71	calm	0	0		0	0			0	0	clear	B. E. Light.
Boston, Massachusetts	30.36	771.1	30.52	775.2	27.0	— 2.8	64	se.	6	2.7		10 cs	hz.			0	0	cloudy	O. B. Cole.
Brownsville, Texas	30.00	762.0	30.05	763.3	71	21.7	94	calm	0	0			10 ks		e.	0	0	cloudy	J. C. Galloway.
Buffalo, New York	29.31	744.5	30.08	764.0	40.8	4.9	75	s.	11	4.9			10 ks		sw.	0	0	cloudy	Wm. Finn.
Burlington, Vermont	30.01	762.2	30.31	769.9	22.5	— 5.3	45	s.	21	9.4			10 s		s.	0	0	cloudy	G. C. Schaeffer.
Cairo, Illinois	29.85	758.2	30.26	768.6	55.6	13.1	82	s.	6	2.7		0	hz.			0	0	clear	W. H. Ray.
Campo, California	27.40	695.9	29.98	761.5	34	1.1	88	s.	1	0.4		0	0			0	0	clear	W. H. Clendenon.
Camp Thomas, Arizona	27.15	689.6	29.88	758.9	49	9.4	68	calm			0	0	0			0	0	clear	J. T. Fitzgerald.
Cape Henry, Virginia	30.47	773.9	30.49	774.4	48	8.9	63	se.	14	6.3		3 c;ck	0			0	0	clear	J. E. Lanouette.
Cape May, New Jersey	30.46	773.7	30.49	774.4	45	7.2	68	s.	20	8.9			10 ks		s.	0	0	cloudy	W. Bolten.
Cedar Keys, Florida	30.27	768.8	30.29	769.4	64	17.8	84	ne.	8	3.6		0	0			0	0	clear	F. W. Mixer.
Champaign, Illinois	29.24	742.7	30.08	764.0	48.0	8.9	74	s.	14	6.3		4 c	0	nw.		0	0	fair	L. A. Welsh.
Charleston, S. Carolina	30.33	770.4	30.39	771.9	61	16.1	84	ne.	7	3.1		0	0			0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.55	750.6	30.41	772.4	48.0	8.9	77	e.	2	0.9		10 cs	sk.			0	0	cloudy	D. O. Donoghue.
Chattanooga, Tennessee	29.50	749.3	30.33	770.4	55.0	12.8	69	sw.	4	1.8		4 ck	0	w.		0	0	fair	B. L. Goulding.
Cheyenne, Wyoming	24.06	611.1	30.06	763.5	42.0	5.6	27	w.	8	3.6		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	29.25	742.9	29.98	761.5	49.0	9.4	74	sw.	12	5.4			10 k		nw.	0	0	cloudy	J. Mitchell.
Chincoteague, Virginia	30.48	774.2	30.50	774.7	44	6.7	68	se.	8	3.6		5 k	0	se.		0	0	fair	V. P. Temple.
Cincinnati, Ohio	29.54	750.3	30.21	767.3	49.8	9.9	58	se.	2	0.9		5 cs	0	s.		0	0	fair	R. B. Watkins.
Cleveland, Ohio	29.36	745.7	30.12	765.0	46.8	8.2	43	s.	15	6.7		3 c	0			0	0	clear	J. B. Newlin.
Coleman City, Texas	28.33	719.6	30.15	765.8	53	11.7	93	s.	1	0.4		0	0			0	0	clear	L. Dorman.
Columbus, Ohio	29.31	744.5	30.18	766.6	45	7.2	53	s.	4	1.8		10 cs	0			0	0	cloudy	D. Cuthbertson.
Concho, Texas	28.18	715.8	30.12	765.0	54	12.2	93	calm	0	0		0	0			0	0	clear	W. W. McConihe.
Davenport, Iowa	29.31	744.5	29.98	761.5	53	11.7	72	sw.	6	2.7		6 cs	fg.	w.		0	0	fair	R. R. Martin.
Dayton, Washington T'y	28.21	716.5	29.96	761.0	40.3	4.6	78	n.	2	0.9		0	0			0	0	clear	H. Clifford.
Deadwood, Dakota	25.31	642.9	30.00	762.0	36.5	2.5	61	sw.	4	1.8		1 c	0	w.		0	0	clear	G. W. Scott.
Decatur, Texas					68	20.0	66	se.	8	3.6		0	0			0	0	clear	D. J. Carr.
Delaware Breakwater, Del.	30.47	773.9	30.49	774.4	42	5.6	73	s.	21	9.4		9 cs	0	sw.		0	0	cloudy	A. Schneider.
Denison, Texas	29.35	745.5	30.15	765.8	61.0	16.1	78	s.	5	2.2		0	0			0	0	clear	J. McGlone.
Denver, Colorado	24.78	629.4	30.05	763 3	42.5	5.8	29	se.	6	2.7		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	29.06	738.1	29.99	761.7	46	7.8	77	w.	1	0.4		3 c	3 s	w.		0	0	fair	F. W. Conrad.
Detroit, Michigan	29.32	744.7	30.05	763.3	47.1	8.4	63	sw.	11	4.9		hz	0			0	0	clear	C. F. R. Wappenhans.
Dodge City, Kansas	27.39	695.7	30.03	762.7	58	14.4	75	sw.	7	3.1			10 s			0	0	cloudy	E. A. Thomas.
Dubuque, Iowa	29.22	742.2	29.95	760.7	45.2	7.3	68	sw.	1	0.4		3 c	hz.	w.	calm	0	0	fair	J. Harvey Smith.
Duluth, Minnesota	29.09	738.9	29.81	757.2	35	1.7	69	sw.	1	0.4		5 cs	0	calm		0	0	fair	N. B. Conger.
Eagle Pass, Texas	29.34	745.2	30.15	765.8	68.1	20.1	84	se.	7	3.1			10 s		se.	0	0	cloudy	F. Belford.
Eagle Rock, Idaho	25.36	644.1	30.08	764.0	32	0.0	81	n.	4	1.8		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	30.46	773.7	30.53	775.4	13	—10.6	44	nw.	5	2.2		0	0			0	0	clear	J. H. Melton.
El Paso, Texas	26.21	665.7	29.95	760.7	64	17.8	33	e.	5	2.2		4 c	0	calm		0	0	fair	J. F. Marshall.
Erie, Pennsylvania	29.35	745.5	30.10	764.5	49	9.4	44	s.	15	6.7			10 k		w.	0	0	cloudy	R. H. Paxton.
Escanaba, Michigan	29.21	741.9	29.90	759.4	25	— 3.9	73	calm	0	0		3 c	3 s	w.		0	0	fair	C. Dill.
Florence, Arizona	28.41	721.6	29.91	759.7	51.7	10.9	56	n.	3	1.3		0	0			0	0	clear	R. R. Herman.
Fort Apache, Arizona	25.08	637.0	30.00	762.0	35	1.7	69	ne.	4	1.8		0	0			0	0	clear	W. C. Barnes.
Fort Assinnaboine, Montana	26.93	684.0	29.83	757.7	41	5.0	59	sw.	9	4.0		0	4 s		sw.	0	0	fair	B. O. Lenoir.
Fort Bennett, Dakota	28.15	715.0	29.79	756.7	33	0.6	70	calm	0	0		0	0			0	0	clear	T. Gibson.
Fort Benton, Montana	26.98	685.3	29.84	757.9	53	11.7	40	sw.	24	10.7		8 k	0	sw.		0	0	cloudy	S. Wheaton.
Fort Buford, Dakota	27.77	705.3	29.84	757.9	41	5.0	67	calm	0	0		10 cs	0	calm		0	0	cloudy	A. H. Bell.
Fort Custer, Montana	26.72	678.7	29.90	759.4	44	6.7	56	s.	5	2.2		0	6 s		calm	0	0	fair	V. Verge.
Fort Davis, Texas	25.18	639.6	29.97	761.2	59	15.0	62	se.	8	3.6			10 ks		s.	0	0	threatening	J. Williams.
Fort Elliott, Texas	27.27	692.6	30.05	763.3	56	13.3	69	s.	10	4.5		0	0			0	0	clear	W. J. Cundall.
Fort Gibson, Indian T'y	29.56	750.8	30.14	765.5	59.5	15.3	81	e.	2	0.9		0	0			0	0	clear	J. B. Campbell.
Fort Grant, Arizona	25.22	640.6	29.95	760.7	53	11.7	28	ne.	1	0.4		0	0			0	0	clear	T. J. Macgowan.
Fort Griffin, Texas	28.84	732.5	30.14	765.5	57	13.9	80	s.	3	1.3		0	0			0	0	clear	G. H. Hayne.
Fort Keogh, Montana	27.31	693.7	29.85	758.2	45	7.2	41	sw.	10	4.5		4 c	0	w.		0	0	fair	W. B. Stockman.
Fort Macon, North Carolina	30.42	772.7	30.44	773.2	57	13.9	80	se.	10	4.5		2 cs;hz	0	calm		0	0	clear	L. Leonardy.
Fort McKavett, Texas	27.88	708.1	30.14	765.5	58	14.4	86	s.	4	1.8		0	0			0	0	clear	J. E. Thatcher.
Fort Missoula, Montana	26.62	676.1	29.93	760.2	37	2.8	82	sw.	2	0.9		0	0			0	0	clear	J. H. Jones.
Fort St. Michaels, Alaska	30.20	767.1	30.23	767.8	— 4	—20.0	100	w.	4	1.8		0	0			0	0	clear	A. P. Leavitt.
Fort Shaw, Montana	26.17	664.7	29.84	757.9	50	10.0	40	sw.	13	5.8		0	0			0	0	clear	A. L. Mathews.
Fort Sill, Indian Territory	28.88	733.5	30.12	765.0	57.3	14.1	89	calm	0	0		0	0			0	0	clear	T. Cleary.
Fort Stevenson, Dakota	27.80	706.1	29.70	754.4	41	5.0	67	nw.	8	3.6		4 cs	0			0	0	fair	W. Burrows
Fort Verde, Arizona					44.2	6.8	47	sw.			1	0	0			0	0	clear	D. Brooks.
Fort Washakie, Wyoming	24.51	622.5			34.0	1.1	61	sw.	7	3.1		0	0			0	0	clear	T. M. Ambler.
Fredericksburg, Texas	28.41	721.6	30.13	765.3	57	13.9	93	sw.	6	2.7			10 ks		sw.	0	0	cloudy	H. S. Miles.
Galveston, Texas	30.12	765.0	30.16	766.1	68	20.0	90	se.	6	2.7		0	9 k		s.	0	0	cloudy	E. O'C. MacInerney.
Grand Haven, Michigan	29.27	743.4	29.96	761.0	43.5	6.4	83	s.	20	8.9		0	5 s		sw.	0.02	0.5	fair	W. A. Reid.
Hatteras, North Carolina	30.43	772.9	30.45	773.4	51	10.6	86	e.	7	3.1		6 c	hz.	n.		0	0	fair	R. M. Crawford.
Helena, Montana	25.68	652.3	29.94	760.5	44	6.7	56	sw.	4	1.8		0	0			0	0	clear	N. C. Smith.
Henrietta, Texas	29.14	740.1	30.17	766 3	59.0	15.0	87	s.	6	2.7		0	0			0	0	clear	J. W. Byram.
Huron, Dakota	28.40	721.3	29.85	758.2	36	2.2	72	se.	8	3.6		0	0			0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.31	744.5	30.13	765.3	48	8.9	63	s.	5	2.2		5 c	sk.	w.	calm	0	0	fair	O. Schutze
Indianola, Texas	30.08	764.0	30.12	765.0	70.0	21.1	93	e.	14	6.3		0	3 ks	e.		0	0	clear	I. A. Reed.
Jacksboro, Texas	28.95	735.3	30.13	765.3	60	15.6	75	s.	5	2.2		0	0			0	0	clear	J. P. Sherry.
Jacksonville, Florida	30.28	769.1	30.32	770.1	65	18.3	84	ne.	4	1.8		0	fg.			0	0	clear	J. W. Smith.
Keokuk, Iowa	29.36	745.7	30.03	762.7	54.5	12.5	78	sw.	8	3.6		0	hz.			0	0	clear	F. Z. Gosewisch
Key West, Florida	30.10	764.5	30.12	765.0	72.0	22.2	84	ne.	22	9.8			10 s		ne.	0.05	1.3	cloudy	L. M. Melbourne.
Kittyhawk, North Carolina	30.45	773.4	30.47	773.9	49	9.4	67	e.	14	6.3		7 c	0	nw.		0	0	fair	E. A. Beals.
Knoxville, Tennessee	29.28	743.7	30.32	770.1	48.2	9.0	77	ne.	2	0.9		3 k	0	w.		0	0	clear	J. A. Cody.
La Crosse, Wisconsin	29.13	739.9	29.93	760.2	45	7.2	68	s.	8	3.6		0	0			0	0	clear	S. C. Emery.
La Mesilla, New Mexico	26.08	662.4	29.96	761.0	58.8	14.9	41	se.	1	0.4		3 c	6 s			0	0	cloudy	N. D. Lane.
Leavenworth, Kansas	29.13	739.9	30.04	763.0	59	15.0	75	calm	0	0		2 cs	2 k	w.	sw.	0	0	fair	A. W. Browne.
Lewiston, Idaho	29.13	739.9	29.98	761.5	45	7.2	63	se.	2	0.9		0	3 s		se.	0	0	clear	W. Blake.
Little Rock, Arkansas	29.88	758.9	30.20	767.1	57	13.9	100	e.	1	0.4			fg.		calm	1.56	39.6	dense fog	W. U. Simmons.
Los Angeles, California	29.69	754.1	30.09	764.3	51.4	10.8	86	nw.	1	0.4			10 s		calm	inap.	inap.	cloudy	E. F. Kubel.
Louisville, Kentucky	29.60	751.8	30.17	766.3	53	11.7	61	s.	7	3.1		3 cs	0			0	0	clear	H. C. Smyth.
Lynchburg, Virginia	29.73	755.1	30.44	773.2	40.5	4.7	78	calm	0	0		0	fg.			0	0	clear	W. R. Bushby.
Madison, Wisconsin	28.91	734.3	29.95	760.7	47	8.3	77	sw.	6	2.7		5 c	0	w.		0	0	fair	C. A. Shaw.
Marquette, Michigan	29.11	739.4	29.86	758.4	33	0.6	68	w.	4	1.8		5 cs	4 s	w.	w.	inap.	inap.	cloudy	J. Gilligan.
Mason, Texas	28.48	723.4	30.13	765.3	57.1	13.9	83	s.	2	0.9		0	0			0	0	clear	P. M. Wilson.
Memphis, Tennessee	29.90	759.4	30.24	768.1	56	13.3	86	s.	3	1.3		0	8 s		sw.	0.32	8.1	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	29.16	740.7	29.93	760.2	47	8.3	77	sw.	12	5.4		2 c	sk.			0	0	dense smoke	W. Line.

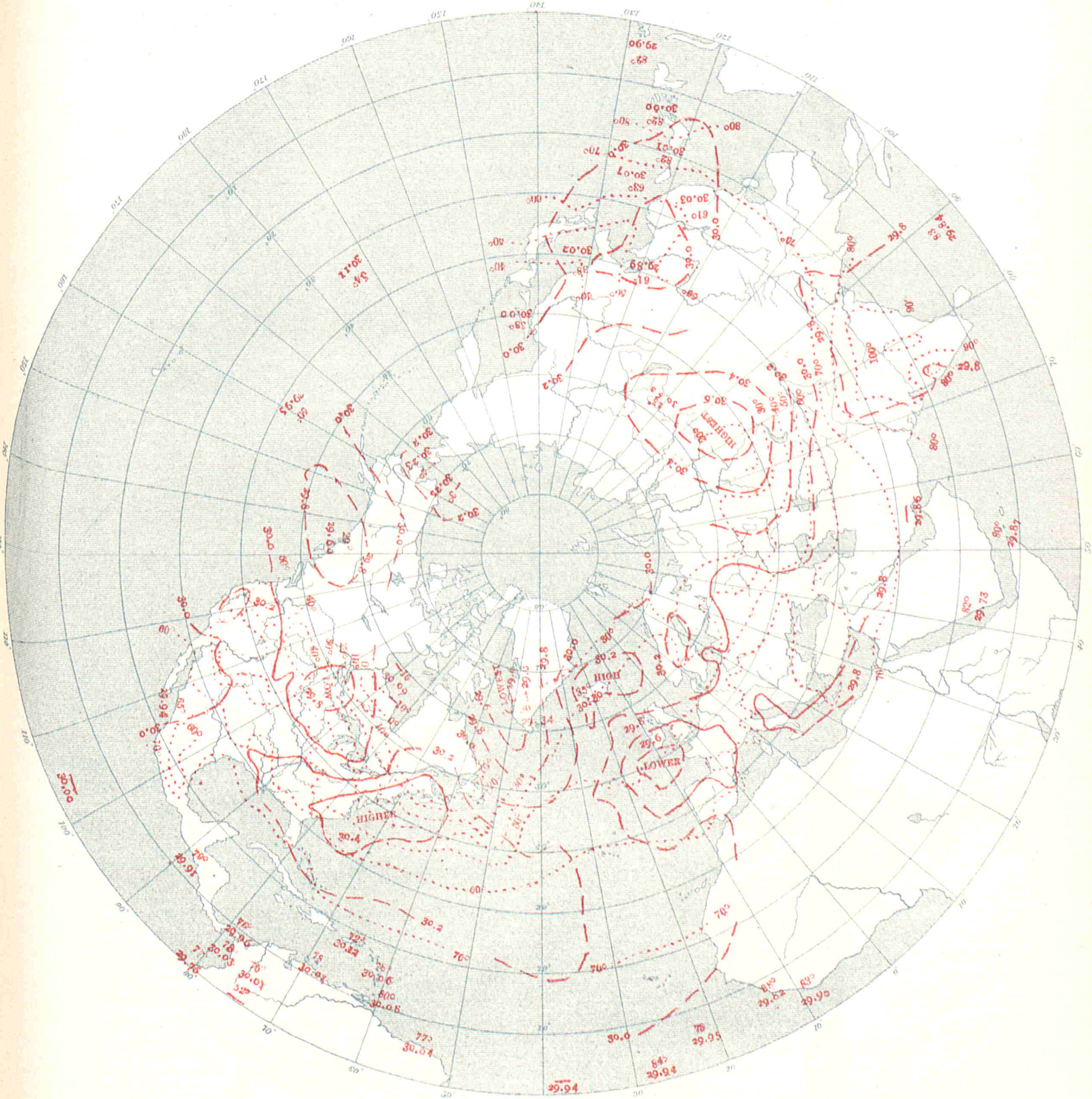
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–01	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
UNITED STATES.—Cont'd.																			
Mobile, Alabama	30.23	767.8	30.27	768.8	61	16.1	78	calm	0	0		0	0			0	0	clear	J. D. Paxton.
Montgomery, Alabama	30.06	763.5	30.29	769.4	60	15.6	70	se.	3	1.3		6 cs	0			0	0	fair	J. B. McLaughlin.
Moorhead, Minnesota	28.68	728.5	29.70	754.4	32.2	0.1	88	s.	16	7.2		5 cs	0	w.		0	0	fair	H. Bessant.
Morgantown, W. Virginia	29.21	741.9	30.25	768.3	47.5	8.6	60	calm	0	0		6 ck	fg.			0	0	fair	G. C. Lewis.
Mt. Washington, N. H.	23.70	602.0	30.11	764.8	1.3	—17.1	79	w.	41	18.3			10 s	w.		0	0	cloudy	J. G. Linsley.
Nashville, Tennessee	29.71	754.6	30.25	768.3	51.5	10.8	80	e.	1	0.4		4 cs	fg.	sw.		0	0	fair	L. A. Jesunofsky.
New Haven, Connecticut	30.40	772.1	30.52	775.2	24	— 4.4	61	ne.	4	1.8		10 cs	0	sw.		0	0	cloudy	J. H. Sherman.
New London, Connecticut	30.50	774.7	30.55	776.0	28	— 2.2	64	n.	2	0.9		10 k	0	n.		0	0	cloudy	J. G. Lynch.
New Orleans, Louisiana	30.16	766.1	30.22	767.6	64.1	17.8	75	e.	4	1.8		hz.	hz.			0	0	dense haze	S. Dunne.
Newport, Rhode Island	30.49	774.4	30.54	775.7	30.0	— 1.1	74	e.	2	0.9		3 ck	2s;sk	w.	calm	0	0	fair	W. McGillivray.
New River, N. Carolina					59	15.0	75	e.			1	2 ck	0	e.		0	0	clear	C. C. Corbin.
New Shoreham, Rhode I'd.	30.50	774.7	30.54	775.7	34.8	1.6	69	se.	4	1.8		8 k	0	w.		0	0	cloudy	W. Davis.
New York, New York	30.30	769.6	30.48	774.2	36	2.2	89	sw.	4	1.8			10 s		sw.	0	0	cloudy	E. B. Garriott.
Norfolk, Virginia	30.45	773.4	30.48	774.2	46	7.8	76	se.	4	1.8		7 cs	0	nw.		0	0	fair	J. T. Elker.
North Platte, Nebraska	27.03	685.5	29.99	761.7	35.6	2.0	69	nw.	8	3.6		0	0			0	0	clear	E. F. Brady.
Olympia, Washington T'y	29.91	759.7	29.95	760.7	48.0	8.9	93	s.	1	0.4			10 n		calm	0.20	5.1	light rain	J. Dascomb.
Omaha, Nebraska	28.77	730.7	29.98	761.5	50.0	10.0	54	sw.	2	0.9		hz.	0			0	0	clear	A. Pollak.
Ogdaamie, Pt. Barrow, Alas.	30.23	767.8	30.25	768.3	— 2.6	—19.2	93	wnw.	16	7.2			10 s			0	0	cloudy	P. H. Ray.
Oswego, New York	29.83	757.7	30.17	766.3	30.0	— 1.1	83	se.	16	7.2			10 s			0.11	2.8	cloudy	S. W. Beall.
Palestine, Texas	29.66	753.4	30.22	767.6	60.5	15.8	71	s.	2	0.9		0	0			0	0	clear	L. M. Pindell.
Pensacola, Florida	30.24	768.1	30.27	768.8	66.7	19.3	90	e.	6	2.7		0	0			0	0	clear	M. McGauran,
Philadelphia, Pa.	30.37	771.4	30.47	773.9	39	3.9	73	se.	6	2.7			10 s		se.	0	0	cloudy	T. F. Townsend.
Pike's Peak, Colorado	17.90	454.7	30.18	766.6	20	— 6.7	61	sw.	28	12.5		3 cs	0			0	0	clear	L. M. Dey.
Ploche, Nevada	24.11	612.4	30.10	764.5	43	6.1	43	s.	2	0.9		0	0			0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.36	745.7	30.19	766.8	48.9	9.4	37	s.	8	3.6		4 ck	0	w.		0	0	fair	J. H. Bryce.
Port Eads, Louisiana	30.20	767.1	30.21	767.3	66.2	19.0	92	ne.	5	2.2		0	hz.			inap.	inap.	clear	H. G. Christian.
Port Huron, Michigan	29.29	744.0	29.99	761.7	40.2	4.6	74	sw.	11	4.9		9 c	0			0	0	cloudy	W. O. Bailey.
Portland, Maine	30.45	773.4	30.50	774.7	30.0	— 1.1	68	e.	8	3.6		3 c	6 s	calm	calm	0	0	cloudy	D. C. Murphy.
Portland, Oregon	29.91	759.7	29.98	761.5	51.0	10.6	72	se.	6	2.7			10 s		se.	0	0	cloudy	M. L. Hearne.
Portsmouth, N. Carolina					57	13.9	74	e.	16	7.2		0	hz.		calm	0	0	clear	F. P. Chaffee.
Prescott, Arizona	24.90	632.4	30.12	765.0	37	2.8	46	s.	2	0.9		0	0			0	0	clear	J. Mc N. Wright.
Provincetown, Mass.	30.51	774 9	30.54	775.7	32	0.0	78	se.	10	4.5			10 s			0	0	cloudy	P. T. Jenkins.
Punta Rassa, Florida	30.17	766.3	30.18	766.6	67.5	19.7	64	ne.	13	5.8		9 ck	0	e.		0	0	cloudy	W. J. Evans.
Red Bluff, California	29.58	751.3	29.95	760.7	55.0	12.8	86	calm	0	0		0	0			0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.82	757.4	30.06	763.5	70	21.1	90	e.	3	1.3		0	3 s		se.	0	0	fair	W. H. Taylor.
Rochester, New York	29.40	746.7	30.09	764.3	34	1.1	72	s.	18	8.0			10 s		w.	0	0	cloudy	A. T. Sherwood.
Roseburg, Oregon	29.49	749.0	30.05	763.3	42.7	5.9	74	calm	0	0		0	8 s		sw.	0	0	cloudy	J. J. Nanry.
Sacramento, California	29.88	758.9	29.96	761.0	48.7	9.3	86	se.	8	3.6		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.52	749.8	30.13	765.3	53.9	12.2	80	s.	16	7.2		0	0			0	0	clear	J. H. Webber.
St. Paul, Minnesota	28.94	735.1	29.83	757.7	38.0	3.3	82	e.	3	1.3		3 ck	0	w.		0	0	fair	P. F. Lyons.
St. Vincent, Minnesota	28.70	729.0	29.62	752.3	19	— 7.2	84	se.	5	2.2		4 cs	4 s	calm	calm	0	0	cloudy	G. Kingsbury.
Salt Lake City, Utah	25.65	651.5	30.02	762.5	49	9.4	46	e.	1	0.4		3 k	0	sw.		0	0	clear	J. Craig.
San Antonio, Texas	29.44	747.8	30.14	765.5	65.0	18.3	90	calm	0	0			9 ks		s.	0	0	cloudy	E. Lane.
San Diego, California	29.97	761.2	30.03	762.7	54.1	12.3	93	n.	3	1.3			10 n			inap.	inap.	light rain	A. C. Dobbins.
Sandusky, Ohio	29.38	746.2	30.08	764.0	47.5	8.6	63	sw.	18	8.0		0	0			0	0	clear	M. H. Perry.
Sandy Hook, New Jersey	30.44	773.2	30.48	774.2	40.0	4.4	82	s.	15	6.7			10 s		s.	0	0	cloudy	B. A. Blundon.
San Francisco, California	29.97	761.2	30.04	763.0	49	9.4	86	w.	7	3.1			fg.		w.	0	0	dense fog	N. Gorom.
Santa Fé, New Mexico	23.27	591.0	30.03	762.7	50.8	10.4	30	ne.	4	1.8		10 cs	0	se.		0	0	cloudy	H. U. Jones.
Savannah, Georgia	30.28	769.1	30.37	771.4	60	15.6	84	e.	3	1.3		10 ck	0	n.		0	0	cloudy	H. W. Ford.
Shreveport, Louisiana	29.97	761.2	30.21	767.3	64	17.8	78	s.	1	0.4		2 ck	hz.			0	0	clear	E. N. Meekins.
Silver City, New Mexico	24.27	616.4	29.95	760.7	47	8.3	42	nw.	2	0.9		0	0			0	0	clear	J. B. Wallace.
Sitka, Alaska	29.54	750.3	29.60	751.8	29	— 1.7	88	e.	12	5.4			10 ks		se.	0.04	1.0	cloudy	J. J. McLean.
Smithville, North Carolina	30.38	771.6	30.42	772.7	60	15.6	81	se.	9	4.0		0	0			0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	27.89	708.4	29.95	760.7	48	8.9	66	sw.	10	4.5		9 k	0	sw.		0	0	cloudy	D. Moore.
Springfield, Illinois	29.37	746.0	30.07	763.8	52	11.1	72	s.	12	5.4		5 k	hz.	w.		0	0	fair	T. B. Jennings.
Springfield, Massachusetts	30.38	771.6	30.51	774.9	26.4	— 3.1	51	s.	1	0.4			10 s		s.	0	0	cloudy	T. S. Outram.
Springfield, Mo.	28.70	729.0	30.22	767.6	54	12.2	74	s.	12	5.4		0	0			0	0	clear	J. B. Marbury.
Stockton, Texas	27.02	686.3	30.05	763.3	61.1	16.2	90	s.	24	10.7		0	4 s		s.	0	0	fair	J. O'Dowd.
Thatcher's Island, Mass.	30.43	772.9	30.48	774.2	31.0	— 0.6	78	sw.	9	4.0		5 k	0	sw.		0	0	fair	G. Liebmann.
Toledo, Ohio	29.36	745.7	30.07	763.8	46	7.8	53	sw.	10	4.5		6 c;hz	0			0	0	fair	A. Buell.
Tucson, Arizona	27.50	698.5	29.89	759.2	54	12.2	57	se.	4	1.8		0	0			0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.62	752.3	29.99	761.7	48.6	9.2	67	se.	7	3.1		6 cs	0	nw.		0	0	fair	J. Daly.
Uvalde, Texas	29.16	740.7	30.13	765.3	65	18.3	90	se.	2	0.9			10 ks		s.	0	0	cloudy	E. C. Imlay.
Vicksburg, Mississippi	29.97	761.2	30.23	767.8	61	16.1	78	se.	6	2.7		hz.	hz.			0	0	light haze	T. J. Kenan.
Visalia, California	29.57	751.1	29.94	760.5	54.5	12.5	83	sw.	4	1.8		0	0			0	0	clear	J. T. Cochran.
Washington, D. C.	30.34	770.6	30.46	773.7	40.5	4.7	89	se.	5	2.2		6 cs	4 s		s.	0	0	cloudy	B. M. Purssell.
West Las Animas, Colorado	26 05	661.7	30.01	762.2	40.5	4.7	51	w.	4	1.8		0	0			0	0	clear	J. Grover.
Wickenburg, Arizona					47.2	8.4	79	calm			0	0	0			0	0	clear	H. A. Kremp.
Williamsport, Pa.	29.72	754.9	30.33	770.4	37	2.8	51	se.	4	1.8			10 ks		nw.	0	0	cloudy	W. F. Hough.
Wilmington, N. Carolina	30.37	771.4	30.43	772.9	54	12.2	74	calm	0	0			fg.			0	0	dense fog	E. W. McGann.
Winnemucca, Nevada	25.62	650.7	30.02	762.5	38	3.3	82	s.	8	3.6		0	0			0	0	clear	J. R. Williams.
Yankton, Dakota	28.54	724.9	29.88	758.9	43	6.1	60	e.	4	1.8		0	0			0	0	clear	J. H. Atfield.
Yuma, Arizona	29.73	755.1	29.88	758.9	58.1	14.5	60	calm	0	0		0	0			0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.02	559.3			52.0	11.1	73	se.	4	1.8		2 k	2 s	se.		0	0	fair	Joaquin Gomez.
Bridgetown, Barbados, W.I.	30.07	763.8	30.08	764.0	80	26.7	90	e.				5 k	5 ks	e.	e.	0	0	cloudy	J. A. Racker.
Buenaventura, U. S. C.																			J. I. Plume.
Guadeloupe, W. I.	29.94	760.5	29.96	761.0	76	24.4	90	e.								0	0		B. Bigar.
Havana, Cuba, W. I.	30.07	763.8	30.12	765.0	75	23.9	85	se.	1.2	0.5		2 k	4 ks						A. Van Caneghem.
Kingston, Jamaica, W. I.	30.04	763.0	30.05	763.3	73.3	22.9	74	n.	1	0.4			10 n		calm	0.28	7.1	raining	Robert Johnston.
Navassa												0	0			0	0		
Paramaribo, S. A.	30.04	763.0	30.04	763.0	77	25.0	91	e.					8 ks	e.		0.320	8.1	cloudy	F. M. Everett.
Puerto Berrio, U. S. Col'mbia	29.55	750.6	30.01	762.2	75	23.9	89	e.			3		10 ks		e.	0	0	cloudy	Dr. C. J. Hering.
Rivas							88	ne.			2					0	0	cloudy	Miss Flora A. Nichols.
Santiago de Cuba, W. I.	30.04	763.0	30.07	763.8	77	25.0	82	calm	0	0	3	0	0			0	0	clear	Earl Flint.
York Factory, B. A.	30.04	763.0	30.09	764.3	—16.0	—26.7	70	se.	10	4.5		7 cs	0			0	0	cloudy	Robert Mason.
												0	0			0	0	clear	W. Wood.

STATIONS AND VESSELS.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
British Naval.																		
H. M. S. Agincourt, N. 37° 22′, E. 0° 11′	29.85	758.2	59	15.0	87	sw.			4		5	wsw.				2	wsw.	misty.
H. M. N. Alexandra, Naples, Italy	29.79	756.7	65	18.3	70	sw.			1		6	sw.						d. clouds.
H. M. S. Bacchante, Jaffa, Palestine	29.74	755.4	72	22.2	80	sse.			3		9	s.				2	s.	squally.
H. M. S. Cleopatra, N. 12° 12′ E. 51° 00′	29.87	758.7	79.5	26.4	91	e.			3		0					1	e.	blue sky.
H. M. S. Comus, N. 5° 20′, E. 128° 09′	29.90	759.4	82	27.8	95	ne.			2		2	ne.				3	ne.	d. clouds.
H. M. S. Daring, N. 16° 39′, E. 119° 00′	29.94	760.5	79	26.1		nnw.			3		0					1	n.	blue sky.
H. M. S. Diamond, S. 35° 12′, E. 118° 22′	30.21	767.3	66	18.9	90	ese.			4–5		3					1	ese.	d. clouds.
H. M. S. Dido, N. 17° 00′, W. 61° 45′	30.06	763.5	77	25.0		e.			1–2		2	ne.						d. clouds.
H. M. S. Druid, N. 18° 11′, W. 76° 27′	30.06	763.5	73	22.8	90	sse.			1		3	se.						d. clouds.
H. M. S. Dryad, N. 26° 18′ E. 55° 02′	29.86	758.4				sw.			2–3		2	sw.				1	sw.	d. clouds.
H. M. S. Eclipse, S. 15° 43′, E. 46° 20′			86	30.0	96	ese.			1		3							d. clouds.
H. M. S. Fawn, N. 15° 22′, E. 42° 10′	29.73	755.1	81.5	27.5	85	sse.			1		2						s.	misty.
H. M. S. Gannet, S. 33° 01′, W. 71° 37′	30.00	762.0	63	17.2	80	calm			0		0							misty.
H. M. S. Garnet, S. 34° 54′ W. 56° 13′	29.87	758.7	66	18.9	94	var.			1		10							showery.
H. M. S. Inconstant, S. 25° 30′, E. 56° 00′	30.05	763.3	75	23.9	95	e.			4		4	ene.				3	e.	d. clouds.
H. M. S. Iris, N. 34° 28′, E. 22° 02′	29.78	756.4	60	15.6	82	wsw.			1–2		6					3	wsw.	d. clouds.
H. M. S. Iron Duke, N. 22° 16′, E. 114° 10′	29.93	760.2	70	21.1	90	e.			1		6	e.						d. clouds.
H. M. S. Lark, S. 11° 04′, E. 162° 22′	29.81	757.2	82.3	27.9		sse.			4		10					4	e.	heavy rain.
H. M. S. Liffey, S. 29° 56′ W. 71° 20′	29.98	761.5	60	15.6		calm			0		6							d. clouds.
H. M. S. Magpie, N. 32° 44′, E. 129° 51′	30.09	764.3	59.1	15.1	82	e.			1		0							blue sky.
H. M. S. Malabar, Bombay, India	29.85	758.2	84	28.9	91	sw.			2		2	w.						d. clouds.
H. M. S. Nelson, Sydney, N. S. Wales	30.09	764.3	73	22.8	81	e.			1		1	w.						blue sky.
H. M. S. Northampton, Hermuda, W. I.	30.30	769.6	60.5	15.8	70	nne.			5		9	ssw.						d. clouds.
H. M. S. Orontes, N. 35° 23′ E. 18° 32′	29.80	756.9	61.5	16.4	96	w.			3		4	wsw.				2	w.	d. clouds.
H. M. S. Rambler, St. Paul de Loando, Benguela	29.80	756.9	81	27.2	95	wsw.			1		8	wsw.						d. clouds.
H. M. S. Rocket, Esquimalt, Vancouver Id., B. C.	29.97	761.2	45	7.2		calm			0		8							heavy rain.
H. M. S. Tamar, N 36° 29′ W. 0° 35′	29.90	759.4	60.5	15.8	66	wsw.			4–5		4	wsw.				3	wsw.	d. clouds.
H. M. S. Thalia, S. 33° 53′, W. 1° 44′	30.32	770.1	63	17.2		calm			0		3					6	s.	d. clouds.
H. M. S. Triumph, Valparaiso, Chili	29.97	761.2	69	20.6	75	calm			0		3	calm						misty.
Portuguese Naval.																		
Rio Lima, Porto Praya, Cape Verde Islands	30.04	763.0	75.0	23.9	76	nne.			3		8		ne.	15 mi	nutes	2		overcast.
Tamega, Macao, China	29.99	761.8	71.6	22.0	92	ne.			1		8		nne.	½ h'r	½ h'r	1		overcast.
Swedish Naval.																		
Balder, N. 38° 19′ W. 74° 03′	30.50	774.6	40.1	4.5	86	se.			2		9							
United States Naval.																		
Navy Yard, Pensacola, Fla	30.23	767.8	69	20.6	95	e.	7	3.1			2		se.	0	0			fair.
Navy Yard, Portsmouth, N. H.	30.52	775.2	23	— 5.0	?	wsw.	3	1.3			9		wsw.	0	0			cloudy.
Naval Hospital, Yokohama, Japan	29.66	753.4	54	12.2	90	calm			0		10		w.	0.51	13.0			covered.
Adams, N. 2° 37′ W. 80° 19′	29.76	755.9	77	25.0	91	calm			0		8		calm	0	0	sm'h		fair.
Alaska, Mollendo, Peru	29.94	760.5	66	18.9	79	calm			0		10			0	0	long		cloudy.
Alert, N. 28° 41′, E. 124° 49′*	29.92	760.0	63	17.2	89	e.			3		10		s.			sm'h		cloudy.
Alliance, Aspinwall, Panama	29.96	761.0	76	24.4	86	ese.			1		5			0	0	sm'h		fair.
Ashuelot, Nagasaki, Japan	30.11	764.8	55	12.8	87	calm			0		2		calm					fair.
Brooklyn, Montevideo, Uruguay	29.85	758.2	67	19.4	100	n.	4	1.8			10		calm	0.3	8.	sm'h		cloudy.
Colorado, New York, N. Y.	30.47	773.9	35	1.7	100	calm	0	0			10		calm	0	0			hazy.
Enterprise, Curacao, W. I.*	30.01	762.2	78	25.6	86	ene.			3		2							clear.
Essex, N. 4° 50′, W. 9° 05′	29.90	759.4	83	28.3	87	nw.			2		10		nw.			long	nw.	rainy.
Franklin, Norfolk, Va	30.49	774.4	46	7.8	84	se.	4.5	2.0			8		nw.	0	0			fair.
Galena, Malta, Mediterranean	29.79	756.7	62	16.7	88	nnw.			1		5					sm'h		fair.
Independence, Navy Yard, Mare Island, Cal	29.89	759.2	52	11.1	86	sw.			2		10			0	0			cloudy.
Kearsarge, N. 17° 30′ W. 68° 38′	30.04	763.0	78	25.6	78	ene.			3		2		e.			long	e.	fair.
Lackawanna, Callao, Peru*	29.89	759.2	66	18.9	100	calm			0		10		w.					misty.
Lancaster, N. 40° 00′, E. 13° 32′*	29.81	757.2	64	17.8	83	nnw.			2		2		nnw.			sm'h	nw.	fair.
Marion, S. 33° 54′, E. 18° 24′	29.93	760.2	71	21.7	71	sse.			5		0			0	0	sm'h		clear.
Michigan, Erie, Pa	30.05	763.3	49	9.4	100	s.			3		10		se.					cloudy.
Minnesota, Newport, R. I.	30.32	770.1	30	— 1.1	100	se.	2	0.9			21		nw.					cloucy.?
Monocacy, Kobe, Japan	30.08	764.0	59	15.0	70	s.			1		5		calm					fair.
New Hampshire Newport, R. I.	30.51	774.9	32	0.0	79	nnw.			2		5			0	0	sm'h		fair.
Nipsic, Barcelona, Spain	29.82	757.4	63	17.2	72	ssw.			3		5		ssw.			sm'h		d. clouds.
Onward, Callao, Peru†	30.08	764.0	64	17.8	100	calm			0		10		n.			long	w.	cloudy.
Palos, Kobe, Japan	30.09	764.3	58	14.4	53	sw.			1		2		calm					clear.
Passaic, Washington, D. C.	30.46	773.7	40	4.4	100	s.			3									hazy.
Pensacola, Callao, Peru	30.00	762.0	64	17.8	89	calm	0	0			10		s.	0	0	sm'h		cloudy.
Powhatan, La Guayra, Venezuela	29.91	759.7	78	25.6	73				3–4		2		n;e			mod.	n;e	fair.
Portsmouth, Norfolk, Va.	30.47	773.9	43	6.1	100	se.			2		2		s.			sm'h		hazy.
Quinnebaug, Naples, Italy	29.79	756.7	63	17.2	72	wnw.			2		8		calm	sli't	sli't	sm'h		fair.
Ranger, Acapulco, Mexico*	29.93	760.2	80	26.7	82	calm			0		0			0	0	sm'h		clear.
Richmond, Kobe Japan*	30.00	762.0	60	15.6	71	calm			0		2		calm	1.10	27.9			fair.
Shenandoah, Curacoa, W. I.*	30.06	763.5	78	25.6	78	ene.			2		5		ene.			sm'h		fair.
St. Louis, League Island, Pa.	30.26	768.6	38	3.3	90	sse.	8	3.6			10		sw.	0	0			cloudy.
Swatara, Kobe, Japan*	29.89	759.2	62	16.7	56	se.			2		5		nw.			sm'h		fair
Tennessee, N. 24° 36′ W. 81° 38′	30.13	765.3	76	24.4	100	ne.	26	11.6			10			0.03	0.8	mod.	ne.	squally.
Vandalia, Port Royal, S C†	30.48	774.2	62	16.7	94	ene.			2		5		nw.					fair.
Wabash, Boston, Mass.	30.56	776.2	27	— 2.8		calm	0	0			8		ese.	0.01	0.3			cloudy.
Wachusetts, Sitka, Alaska	29.47	748.5	29	— 1.7		calm			0		10		calm					cloudy.
Wyoming, Port Royal, S. C.	30.40	772.1	61	16.1	94	ne.	6	2.7			5		w.	0	0			fair.
Yantic, N. 23° 39′ W. 85° 56′*	30.10	764.5	75	23.9	81	ne.			4–6		10		ne.			mod.	ene.	showery.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.			Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
ALLAN LINE.																	
S. S. Circassian, N. 50° 50′, W. 20° 48′	30.13	765.3	46	7.8	76	n.			6		4	n.	2 h'r	2 h'r	4	n.	raining.
S. S. Nova Scotia, N. 42° 31′, W. 54° 00′	30.27	768.8	33	0.6		w.			5		8	nw.			h'vy	w.	cloudy.
S. S. Polynesian, Halifax, N. S.*	30.28	769.1	11	—11.7		nw.			1		0		0	0			clear.
S. S. Scandinavian, N. 42° 59′, W. 52° 11′*	30.20	767.1	32	0.0		wnw.			5		7	wnw.	0	0	mod.	w.	d. clouds.
S. S. Waldensian, N. 45° 45′, W. 39° 34′ *	30.09	764.3	51	10.6		nw.			5		2	w.	0	0	cross		hazy.
AMERICAN STEAMSHIP COMPANY.																	
S. S. British Crown, N. 49° 36′, W. 19° 42′†	29.97	761.2	47	8.3		nnw.			5		5	n.	3 h'r	3 h'r	mod.	nnw.	rainy.
S. S. Illinois, N. 39° 48′, W. 57° 25′	30.28	769.1	46	7.8	92	n.			6		10	ne.			r'gh	nw.	overcast.
S. S. Indiana, Liverpool, England†	29.58	751.3	41	5.0	83	ese.			5		5	se.	light	light			hazy.
S. S. Ohio, Philadelphia, Penn			38	3.3	90	s.			3		9	s.					threatening.
S. S. Pennsylvania, N. 43° 54′, W. 38° 67′ ? †	30.06	763 5	57	13.9	87	nne.			3		10	nne.			sm'h	n.	raining.
ANCHOR LINE.																	
S. S. Assyria, N. 42° 04′, W. 53° 25′*†	30.40	772.1	38	3.3		nw.			6		10	nw.	snow	snow	hv'y	nw.	overcast.
S. S. Galatia, N. 48° 30′, W. 25° 12′†	30.09	764.3				nne.			6		6	nne.	3 h'r	3 h'r	r'gh	n.	showery.
ATLAS LINE.																	
S. S. Ailsa, N. 16° 54′, W. 75° 38′†	30.10	764.5	79	26.1	78	ne.			1		8	ene.	0	0	sm'h		fine.
S. S. Alvo, N. 33° 14, W. 71° 10′	30.44	773.2				ese.			6		1	e.	0	0	mod.	e.	fair.
S. S. Arden, Maracaibo, Brazil						ne.			1						sm'h	ne.	fine.
S. S. Athos, Mayaguez, Porto Rico, W. I.	29.84	757.9				e.			1		2	ene.	0	0	sm'h		clear.
BRITISH METEOROLOGICAL OFFICE.																	
Bk. Arran, N 3° 56′, W. 24° 40′	29.95	760.7	77.5	25.3	86	nnw.			4		9						d. clouds.
S. Auckland, N. 49° 00′, W. 10° 43′	29.45	748.0	49	9.4		sse.			4		8						squally.
S. Baroda, S. 7° 35′, E. 82° 37′	29.85	758.2	84.5	29.2	79	wnw.			2		3						d. clouds.
British Merchant, N. 3° 16′, E. 88° 26′	29.84	757.9	83	28.3	75	e.			0–1		4						d. clouds.
Bk. Caldew, N. 40° 41′, W. 34° 41′	30.18	766.6	58	14.4		nw.			6		5						d. clouds.
S. S. Clpero, N. 45° 38′, W. 13° 06′	29.59	751.6	52	11.1	69	nw.			5		4						d. clouds.
Bk. Commewyne, N. 42° 28′, W. 38° 27′	30.08	764.0	57.2	14.0	81	wnw.			4		7						showery.
S. S. Hermine, N. 0° 50′, W. 26° 16′	29.94	760.5	84.2	29.0	75	ne.			1		6						d. clouds.
Bkt. Hope, S. 11° 00′, W. 37° 00′	29.97	761.2	81.8	27.7	83	s.			4		2						d. clouds.
S. S. Rosetta, N. 35° 08′, E. 18° 06′	29.81	757.2	60	15.6	65	w.			4		4						d. clouds.
GENERAL TRANS-ATLANTIC COMPANY.																	
S. S. France, N. 40° 48′, W. 55° 42′	30.30	769.7	42.5	6.0		nnw.			5			n.	0	0		w.	covered.
HAMBURG AMERICAN PACKET COMPANY.																	
S. S. Bohemia, N. 46° 26′, W. 29° 59′.*†	30.17	766.3				ene.			4		6	e.	0	0	mod.	nne.	fair.
S. S. Lessing, N. 43° 14′ W. 41° 27′	30.08	764.1	59	15.0		w.			2		2?	w.	0	0	sm'h	w.	cloudy.?
S. S Silesia, Hamburg, Germany.*†	30.05	763.3	51.8	11.0		se.			4		5	ese.	9 h'r	9 h'r			fair.
S. S, Wieland, N. 40° 15′, W. 62° 52′	30.54	775.7	40	4.4		nw.			3		10	nw.	0	0	3	nw.	cloudy.
LEYLAND LINE.																	
S. S. Iberian, N. 52° 12′, W. 60 12′						ene.			3		5	e.	4 h'r	4 h'r			
MALLORY LINE.																	
S. S. Colorado, New York, N.Y.†	30.46	773.7	36	2.2		ssw.			1		10		0	0			overcast.
MERCHANTS' EXPRESS LINE.																	
S. S. Hermod, N. 50° 08′, W. 10° 10′*†	29.24	742.7	50.0	10.0		e.			3		6	se.	4 h'r	4 h'r	long	nw.	showery.
NATIONAL LINE.																	
S. S. England, N. 47° 58′, W. 30° 27′	30.15	765.8				ene.			3		8	ene.	0	0	mod.	ne.	cloudy.
S. S. Erin, N. 45° 56′, W. 33° 07′	30.09	764.3	52	11.1		sse.			4		3	e.	0	0	long	w.	fine.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																	
S. S. Santiago, N. 23° 00′, W. 74° 10′†	30.20	767.1	70	21 ?		ne.			4		0		0	0	small	ne.	fine.
NEW YORK, HAVANA AND MEXICAN MAIL.																	
S. S City of Alexandria, N. 19° 21′, W. 94° 52′*†	30.09	764.3	76	24.4		w.			5		10	nw.	5 h'r	5 h'r	mod.	se.	rainy.
NEW YORK HERALD WEATHER SERVICE.																	
S. S. City of Washington, N. 18° 50′, W. 93° 42′*†	30.10	764.5	80	26.7		e.			1						sm'h		fine.
S. S. Lepanto, N. 48° 28′ W. 23° 30′*	29.94	760.5	40	4.4		n.			6							con.	squally.
S. S. New York, N. 25° 13′ W. 84° 00′*†	30.10	764.5	73	22.8		ene.			5							ene.	cloudy.
S. S. W. A. Scholten, N. 42° 23′, W. 51° 51′	30.28	769.1	28.8	—1.8		nw.			4						mod.		
NORTH GERMAN LLOYD																	
S. S. Hohenzollern, S. 17° 42′, W. 37° 51′*	29.95	760.7	73.4	23.0		ene.			4		8†	e.	0	0	mod.	e.	clear ?
S. S. Kronprinz F. Wilhelm, N. 45° 10′ W 39° 00′	30.03	762.7	49.1	9.5		nnw.			3		9	w.	0	0	4–5	nw.	covered.
S. S. Main, N 47° 54′, W. 27° 55′	30.00	762.0	51.8	11.0		nne.			3–4		5	nne.	0	0	mod.	n.	squally.
S. S. Mosel, N. 48° 30′ W. 26° 47′	30.11	764.8	50	10.0		nne.			5		3	ene.	½ h'r	½ hr	mod.	nne.	clear.
S. S. Neckar, N. 40° 41′, W. 66° 40′	30.53	775.4	30.2	—1.0		nw.			5		3	nw.	0	0	mod.	nw.	fine.
S. S. Ohio, N. 37° 08′, W. 38° 40′	30.26	768.6				w.			3		4	w.	0	0	sm'h	nw.	fair.
S. S. Salier, N 49° 57′, W 3° 14′	29.59	751.6	43.7	6.5		ese.			6		10	se.	3 h'r	3 h'r	r'gh	ese.	light rain.
S. S. Strassburg, N. 50° 14′, W. 3° 16′	29.63	752.6	54.0	12.2	74	sse.			3		7		0	0	sm'h		fair.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																	
S. S. Belgic N. 43° 50′ W. 160° 47′†	29.95	760.7	50	10.0	72	sse.			6		10	sse.	rain	rain	mod.	sse.	cloudy.
S. S. Oceanic, N. 35° 11′ E. 171° 51′*	30.11	764.8	54.0	12.2	74	w.			3		5	w.					
OCEAN STEAMSHIP COMPANY.																	
S. S. City of Augusta, New York, N. Y.†	30.41	772.4				s.			1		10	sw.	0	0			smoky.
S. S. Seminole, N. 34° 30′, W. 76° 00′†	30.47	773.9	76	24.4	82	se.			4		1	sw.	0	0	cross	se.	clear.
S. S. Mississippi, N. 42° 55′, W. 124° 38′†	30.06	763.5	51	10.6	86	se.			1		8	w.			mod.	w.	fair.
OREGON RAILWAY AND NAVIGATION COMPANY.																	
S. S. City of Chester, Portland, Oregon*	29.99	761.7	54	12.2		e.			1		2†	se.					cloudy.?
S. S. Columbia, N. 40° 28′, W. 124° 40†	30.03	762.7	46.5	8.1	96	n.			2		10	nnw.			light	nw.	misty.
S. S. Oregon, San Francisco, Cal.†	30.01	762.2	54	12.2	93	sw.			1		10	sw.					misty.
PACIFIC COAST STEAMSHIP COMPANY.																	
S. S. Ancon, San Francisco, Cal.†	30.00	762.0	47	8.3	92	wnw.			1		10	w.					cloudy.
S. S. Idaho, N. 42° 45′, W. 124° 41′†	29.90	759.4	48	8.9	92	wsw.			2		10				light	sw.	raining.
S. S. State of California, San Francisco, Cal.†	30.03	762.7	38	3.3	90	w.			3		10	w.					foggy.
S. S. Victoria, N. 49° 10′, W. 123° 55′†	29.90	759.5	42	5.6	100	calm			0		2		12 h'r	12 h'r	sm'h		clear.
PACIFIC MAIL STEAMSHIP CO.																	
S. S. Australia, Sydney, N. S. W	30.02	762.5	73	22.8	76	calm			0		5	se.					fine.
S. S. City of New York, S 28° 50′, W. 178° 10′†	29.89	759.2	74	23.3	81	s.			6		10	s.	h'vy	h'vy	h'vy	se.	cloudy.
S. S. City of Pekin, Panama, Panama†	30.03	762.7	78	25.6	82	nw.			2						sm'h		clear.
S. S. City of Sydney, S. 18° 16′, E. 172° 14′†	29.95	760.7	80	26.7	91	n.			1		5?	nne.	0	0	long	nw.	cloudy ?
S. S. Clyde, N. 13° 30′, W. 89° 16′†	29.91	759.7	79	26.1	74	n.			1		3?	n.	1 h'r	1 h'r	light	sse.	cloudy ?
S. S. Colon, N. 37° 52′, W. 74° 02′†	30.46	773.7	44	6.7		se.			4		5	ese.	0	0	sm'h	se.	fair.
S. S South Carolina, Champericos, Mexico†	30.06	763.5	83	28.3	83	n.			1		5	ne.	0	0	light	sw.	
QUEBEC STEAMSHIP COMPANY.																	
S. S. Muriel, N. 26° 01′, W. 64° 56′	30.16	766.1	71	21.7		sse.			3		8		0	0	mod.	e.	fair.
RED STAR LINE.																	
S. S. Belgenland, Antwerp, Belgium†	29.93	760.2	54	12.2	93	calm			0		2	s.	0	0			clear.
S. S. Rhynland, N. 47° 05′, W. 29° 13′	30.13	765.3	47	8.3	77	ne.			3		10	ne.	0.2	5.	long	nne.	cloudy.
S. S. Switzerland, N. 40° 02′ W. 59° 05′†	30.39	771.9				nnw.			5		10	nw.	3 h'r	3 h'r	r'gh	nnw.	hailing.
S. S. Waesland, N. 44° 42′, W. 35° 54′	30.04	763.0	57	13.9		ese.			2		8	s.	4 h'r	4 h'r	long	w.	fair.
ROTTERDAM LINE.																	
S. S. Schiedam, N. 49° 42′, W. 22° 10′*	29.86	758.4	51.6	10.9	92	n;nnw.			1		4	nnw.	2 h'r	2 h'r	high	nw.	clear.
THINGVALLA LINE.																	
S. S. Thingvalla, Copenhagen, Denmark†	30.07	763.8	42.8	6.0		ese.			1		10	ese.	8 h'r	8 h'r			covered.
WARREN LINE.																	
S. S. Iowa, N. 43° 41′ W. 42° 10′*†	30.22	767.6	54	12.2		sw.			3		2	sw.	light	light	mod.	sw.	clear.
WHITE STAR LINE.																	
S. S. Adriatic, New York, N. Y †	30.46	773.7	36	2.2		ne.			3		2	wsw.	0	0	sm'h		d. clouds.
S. S. Celtic, N. 50° 00′, W. 23° 20′†	29.95	760.7	49	9.4		n.			5		2	n.	sh'rs	sh'rs	mod.	n.	fair.
S. S. Germanic, N. 50° 58′, W. 15° 30′†	29.68	753.9	50	10.0		nne.			6		3	nne.	0	0	mod.	nne.	clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.	Character.	Direction from.	
WILSON LINE.																		
S. S. Otranto, N. 46° 18′, W. 34° 03′†	30.18	766.6	56	13.3	.....	e.	.....	.....	4	.....	5	.....	w.	o	o	sm'h	wsw.	fair.
S. S. Romano, Hull, Eng.*†	29.83	757.7	51	10.6	.....	se.	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	clear.
WINSOR LINE.																		
S S. Catherine Whiting, Providence, R. I.†	30.44	773.2	.....	.....	.....	s.	.....	.....	1	.....	hz.	.....	sw.	.....	.....	.....	.....	
MISCELLANEOUS.																		
Sch. Addie Fuller, Cedar Keys, Florida†	30.37	771.4	65	18.3	83	ene.	.....	.....	3	.....	o	.....	.....	o	o	.....	.....	clear.
Bk. Adelaide, Rio de Janeiro, Brazil*†	30.00	762.0	82	27.8	.....	nnw.	.....	.....	.....	.....	.....	.....	nw.	.....	.....	.....	.....	
Schr. Ajax, N. 26° 47′, W. 95° 36′†	30.18	766.6	.....	.....	.....	e.	.....	.....	3	.....	3	.....	e.	o	o	mod.	.....	fair.
Bk. Alpha, N. 38° 30′, W. 73° 50′†	30.39	771.9	40	4.4	.....	se.	.....	.....	5	.....	6	.....	se.	o	o	sm'h	.....	cloudy.
Bk. Antioch, S. 25° 46′ W. 42° 23′*†	30.00	762.0	80	26.7	.....	ene.	.....	.....	5	.....	1	.....	ne.	o	o	sm'h	nw.	clear.
Schr. Asa Eldridge, N. 26° 10′, W. 82° —†	30.27	768.8	.....	.....	.....	ene.	.....	.....	5	.....	8	.....	e.	2 h'r	2 h'r	r'gh	ese.	threatening.
Bk. Aureola, N. 34° 17′, W. 43° 29′*†	30.47	773.9	70	21.1	.....	ssw.	.....	.....	3	.....	5	.....	ssw	o	o	light	nw.	fair.
Sch'r Annie M. Smull, S. 35° 34′ W. 5° 00′*†	30.30	769.6	62	16.7	.....	sse.	.....	.....	.....	.....	.....	.....	sse.	o	o	long	sw.	clear.
Bk. Bergenseren, N. 36° 03′, W. 22° 20′†	30.12	765.0	.....	.....	.....	w.	.....	.....	3	.....	.....	.....	w.	.....	.....	3	wnw.	overcast.
Bk. Celestina, S. 6° 08′, W. 29° 30′*†	29.90	759.4	.....	.....	.....	n.	.....	.....	3	.....	10	.....	n.	h'vy	h'vy	long	sse.	cloudy.
Bk. Champion'N. 38° 10′ W. 76° 28′†	29.96	761.0	.....	.....	.....	nw.	.....	.....	5	.....	2	.....	nw.	o	o	rg'h	nw.	
S. S. Compton, Cardenas Bay, Cuba, W. I†	30.07	763.8	.....	.....	.....	ese.	.....	.....	5	.....	9	.....	ese.	o	o	.....	.....	threatening.
Bk. E. L. Pettengill, N. 0° 41′ W 114° 16′†	30.00	762.0	.....	.....	.....	ene.	.....	.....	2	.....	2	.....	ene.	o	o	sm'h	ne.	
S. Enoch Train, Off Start Point, Eng*	29.42	747.3	.....	.....	.....	s.	.....	.....	5	.....	9	.....	s.	sh'rs	sh'rs	long	wnw.	overcast.
S. Exporter, N 35° 45′, W. 42° 00′*†	30.40	772.1	.....	.....	.....	sw.	.....	.....	4	.....	1	.....	w.	o	o	long	n.	very fine.
Ship Festina Lente, N. 57° 00′, W. 22° 46′*	30.19	766.8	48	8.9	.....	ene.	.....	.....	6	.....	4	.....	ene.	o	o	h'vy	w.	clear.
U. S. F. C. S. FishHawk, Washington, D. C.†	30.52	775.2	46	7.8	85	sse.	.....	.....	3	.....	9	.....	sse.	o	o	.....	.....	cloudy.
Bk. Freya, Baltimore, Md.	.....	.....	48	8.9	.....	s.	.....	.....	4	.....	0	.....	.....	o	o	.....	.....	fine.
S. Grecian, S. 20° 35′, W. 33° 44′*†	30.05	763.3	78	25.6	.....	ese.	.....	.....	5	.....	3	.....	ese.	o	o	long	s.	clear.
Bk. Granville, S. 34° 56′, W. 6° 10′*†	30.38	771.6	.....	.....	.....	sse	.....	.....	1	.....	.....	.....	ese.	o	o	mod.	sw.	clear.
Bk. Hattie G. McFarland, Brunswick, Ga*†	30.35	770.9	76	24.4	.....	ese.	.....	.....	1	.....	3	.....	ne.	o	o	.....	.....	fair.
Schr. Henry Denison, Port Antonio, Jamaica†	30.02	762.5	.....	.....	.....	nne.	.....	.....	2–3	.....	2	.....	ne.	o	o	.....	.....	fair.
S. Hedwig, N. 56° 13′, W. 20° 18′	30.08	764.1	49.8	9.9	76	ne.	.....	.....	6	.....	5	.....	ne.	2 h'r	2 h'r	4	ne.	squally.
Bg. John Wesley, Sagua La Grande, Cuba, W. I. †	30.05	763.3	74	23.3	.....	ene.	.....	.....	3	.....	10	.....	.....	24 h'r	24 h'r	.....	.....	raining.
Bk. J. na, New York, N. Y.*†	30.55	776.0	.....	.....	.....	s.	.....	.....	3	.....	o	.....	.....	o	o	.....	.....	fine.
Bk. Josephine, Aspinwall, Panama*†	30.09	764.3	78	25.6	73	calm	.....	.....	o	.....	2	.....	ne.	o	o	.....	.....	hazy.
Bk. Liberia, N. 34° 48′, W. 42° 24′*	30.20	767.1	.....	.....	.....	sw.	.....	.....	4	.....	4	.....	.....	o	o	.....	.....	
Light House Tender, Laurel, Key West, Florid i†	30.10	764.5	71	21.7	.....	ne.	.....	.....	6	.....	10	.....	ne.	3 h'r	3 h'r	cross	se.	cloudy.
S. S. Malabar, Cardiff, Wales,*†	29.47	748.5	.....	.....	.....	se.	.....	.....	7	.....	.....	.....	se.	h'vy	h'vy	.....	.....	raining.
Bg. Medina, N. 31° 45′. W. 74° 10′†	30.45	773.4	.....	.....	.....	ene.	.....	.....	5	.....	2	.....	ene.	.....	.....	mod.	ene.	clear.
S. S. Nebo, N. 0° 17′ W. 36° 37′*†	29.84	757.9	.....	.....	.....	ne.	.....	.....	1	.....	8	.....	ne.	1 h'r	1 h'r	sm'h	.....	cloudy.
Bk. Peppina, N. 37° 37′, W. 9° 38′†	29.90	759.4	58	14.4	81	w.	.....	.....	3	.....	8	.....	sw.	.....	.....	r'gh	nw.	cloudy.
Bk. Pilgrim, S. 44° 40′, E. 143° 10′*†	30.00	762.0	.....	.....	.....	w.	.....	.....	1	.....	5	.....	w.	shr's	sh'rs	long	w.	fair.
Bg. Potomac, N. 19° 30′, W. 59° 43′*†	30.05	763.3	.....	.....	.....	ene.	.....	.....	3	.....	.....	.....	ene.	.....	.....	mod.	e.	squally.
S. Salisbury.N. 37° 06′, W. 57° 00′*	30.35	770.8	54.5	12.5	.....	n.	.....	.....	6	.....	7	.....	n.	2 h'r	2 h'r	cross	n.	cloudy.
Bkt. Spotless, N. 19° 20′ W. 35° 11′*†	30.10	764.5	.....	.....	.....	e.	.....	.....	.....	.....	.....	.....	se.	.....	.....	hv'y	ne.	squally.
Bk. Stella, S. 56° 05′, W. 66° 45′*	29.34	745 2	36.1	2.3	76	s.	.....	.....	6	.....	7	.....	sw.	snow	snow	r'gh	sw.	snowy.
S. S. Victoria J. Peed, Fortune Island, W. I.*†	30.06	763.5	.....	.....	.....	ne.	.....	.....	2	.....	9	.....	.....	.....	.....	.....	.....	
S. Wm. Woodbury, N. 58° 13′. W· 16° 33′*†	29.70	754.4	46	7.8	.....	ne.	.....	.....	7	.....	.....	.....	ne.	.....	.....	light	ne.	clear.

International Chart I. April 1, 1882. Isobars and Isotherms.



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON APRIL 2, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind.		Clouds. Direction.		Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
ALGERIAN.																			
Nemours	.....	.....	29.91	759.6	68.7	20.4	91	W.	.....	.....	3	.....	0	.....	.....	0	0	clear	Molroud.
Algiers	.....	.....	29.95	760.8	61.2	16.2	71	nne.	.....	.....	1	.....	1	.....	.....	0	0	very fair	Nicolas.
La Calle	.....	.....	29.93	760.2	60.4	15.8	81	ese.	.....	.....	3	.....	5	.....	.....	0	0	cloudy	Foufréde.
Tunis	.....	.....	29.93	760.3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.00	761.9	72.0	22.2	31	n.	.....	.....	0?	.....	1	.....	.....	0	0	very fair	Dumas.
Tebessa	.....	.....	29.96	760.9	63.7	17.6	63	sw.	.....	.....	1	.....	1	.....	.....	0	0	very fair	Derché.
Geriville	.....	.....	.....	.....	67.6	19.8	27	s.	.....	.....	8	.....	5	.....	.....	0	0	cloudy	Lonchamp.
Laghouat	.....	.....	30.00	761.9	66.2	19.0	46	s.	.....	.....	6	.....	1	.....	.....	c	0	very fair	Abraham.
Biskra	.....	.....	29.97	761.2	73.8	23.2	29	n.	.....	.....	1	.....	5	.....	.....	0	0	cloudy	Malau.
AUSTRALIAN.																			
Melbourne, Victoria	30.18	766.6	30.27	768.8	57.0	13.9	73	s.	12	5.4	.....	.....	8	.....	.....	0.77	19.6	fine	R. L. J. Ellery.
AUSTRO-HUNGARIAN.																			
Agram	29.28	743.7	29.81	757.2	66.2	19.0	42	se.	.....	.....	2	.....	1	.....	.....	0	0	.....	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.18	741.2	29.94	760.5	59.0	15.0	66	nne.	12.5	5.6	.....	.....	8	.....	.....	0	0	.....	Dr. Wierzbiski.
Eperies	28.97	735.8	29.82	757.5	64.4	18.0	42	n.	.....	.....	3	3 cs	0	s.	.....	0	0	.....	Julius Mikolik.
Gratz	28.62	727.0	29.85	758.1	61.2	16.2	40	e.	.....	.....	3	.....	6	.....	.....	0	0	.....	Andreas Rospini.
Hermannstadt	28.38	720.8	29.76	755.8	67.3	19.6	35	se.	.....	.....	2	.....	2	.....	.....	0	0	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.47	723.0	29.77	756.1	63.3	17.4	42	ene.	.....	.....	3	.....	1	.....	.....	0	0	.....	The Staff.
Lemberg	28.92	734.5	29.89	759.2	59.4	15.2	38	n.	.....	.....	2	.....	2	.....	.....	0	0	.....	Dr. T. Staneckl.
Pola	29.76	756.0	29.87	758.8	61.2	16.2	73	ssw.	.....	.....	1	.....	5	.....	.....	0	0	.....	I. R. Hydrographic Office.
Szathmar	29.34	745.3	29.80	756.9	65.8	18.8	45	s.	.....	.....	2	.....	0	.....	.....	0	0	.....	Joseph Midlinszky, S. J.
Szegedin	29.55	750.6	29.83	757.6	62.6	17.0	38	se.	.....	.....	2	.....	4	.....	.....	0	0	.....	Karl Stancel.
Trieste	29.80	757.0	29.91	759.6	59.4	15.2	66	calm	.....	.....	0	.....	6	.....	.....	0	0	.....	Rieder.
Vienna	29.16	740.7	29.85	758.3	66.0	18.9	34	se.	.....	.....	1	.....	1	.....	.....	0	0	.....	I. R. Central Met. Obs'y.
BRITISH.																			
Aberdeen	30.14	765.5	30.24	768.1	44.4	6.9	79	e.	17	7.6	.....	.....	9	.....	.....	0.005	0.1	squally	W. Boswell.
Armagh, Observatory	29.68	753.9	29.93	760.2	46.0	7.8	76	e.	19	8.5	.....	.....	.....	.....	.....	.....	.....	.....	S. Call.
Bidston, Liverpool Obs'y	.....	.....	29.88	758.9	49.3	9.6	81	ene.	36	16.1	.....	.....	10	.....	.....	.....	.....	overcast	John Hartnup.
Bolton, Sharples	29.40	746.7	29.91	760.5	43.8	6.6	87	e.	24	10.7	.....	.....	10	.....	.....	.....	.....	overcast	Thomas Mackereth. [A.S.
Bradford, Yorkshire	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.04	1.0	.....	J. McLandsborough, F. R
Bridgetown, Barbadoes	29.95	760.7	29.98	761.5	82.0	27.8	67	ne.	.....	.....	2	.....	3	.....	.....	.....	.....	d. clouds	Corpl. J. Surgenor, A. H.C.
Cardington	.....	.....	29.87	758.7	54.0	12.2	73	se.	.....	.....	1.0	.....	10	.....	.....	.....	.....	overcast	John McLaren.
Chatham, School M. E.	29.76	755.9	29.90	759.4	51.9	11.1	82	e.	.....	.....	3	.....	5	.....	.....	.....	.....	d. clouds	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	29.46	748.3	29.69	754.1	50.5	10.3	82	ese.	.....	.....	6	.....	10	.....	.....	.....	.....	overcast	The Staff.
Fort Napier, Natal	27.47	697.7	29.69	754.1	84.0	28.9	46	e.	.....	.....	1	.....	2	.....	.....	.....	.....	blue sky	Pvt. E. K. Annis, A.H.C.
Free Town, Sierra Leone	29.58	751.3	29.81	757.2	89.0	31.7	63	w.	.....	.....	1	.....	2	.....	.....	.....	.....	blue sky	Sergt. John Robinson.
Gibraltar, Mediterranean	29.99	761.7	30.04	763.0	65.5	18.6	75	w.	.....	.....	3	.....	7	.....	.....	.....	.....	d. clouds	Cpl. O. Baldwin.
Glasgow, Observatory	29.82	757.4	30.03	762.7	44.2	6.8	79	e.	.....	.....	6	.....	10 k	.....	.....	.....	.....	d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.68	753.9	29.86	758.4	54.4	12.4	76	ene.	.....	.....	4	.....	6	.....	.....	.....	.....	d. clouds	The Staff.
Guernsey	29.49	749.0	29.79	756.7	53.0	11.7	86	se.	.....	.....	1	.....	6	.....	.....	blank	blank	d. clouds	A. Collenette, F. M. S.
Kew, Observatory	29.82	757.4	29.86	758.4	54.7	12.6	70	e.	24	10.7	.....	.....	7	.....	.....	.....	.....	d. clouds	The Staff.
Leicester, Museum	29.65	753.1	29.92	760.0	50.5	10.3	75	se.	.....	.....	4	.....	9	.....	.....	.....	.....	overcast	J. C. Smith.
Malta, Mediterranean	29.86	758.4	29.93	760.2	66.0	18.9	54	nw.	.....	.....	2	.....	0	.....	.....	.....	.....	blue sky	I. H. Whysall.
Nassau, Bahamas	30.17	766.3	30.22	767.6	66.0	18.9	100	ne.	.....	.....	5	.....	10	.....	.....	0.18	4.6	raining	C. S. Duncombe.
Oscott, St. Mary's College	29.36	745.7	29.89	759.2	50.0	10.0	78	ene.	.....	.....	3	.....	10	.....	.....	.....	.....	overcast	John Mac Email.
Oxford, Radcliffe Obs'y	29.60	751.8	29.83	757.7	56.5	13.6	65	e.	.....	.....	4	.....	7	.....	.....	.....	.....	misty	The Staff.
Plymouth	29.66	753.4	29.73	755.1	51.8	11.0	78	se.	.....	.....	5	.....	6	.....	.....	.....	.....	d. clouds	John Merrifield.
Sandwick Manse, Orkneys	.....	.....	30.29	769.4	45	7.2	84	e.	27	12.1	.....	.....	5	.....	.....	.....	.....	d. clouds	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.64	752.8	29.70	754.4	47.8	8.8	89	ne.	.....	.....	2	.....	10	.....	.....	.....	.....	drizzling	W. H. Lyne.
Sheffield	29.69	754.1	29.98	761.5	44.9	7.2	89	ne.	.....	.....	4	.....	10	.....	.....	0.03	0.8	overcast	W. F. Cooper.
Silloth Rectory	29.96	761.0	29.99	761.7	47.5	8.6	67	e.	.....	.....	6	.....	10	.....	.....	0	0	overcast	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	29.98	761.5	45.2	7.3	76	e.	25	11.2	.....	.....	9	.....	.....	.....	.....	squally	Rev. S. J. Perry.
Stratfield Turgiss	29.63	752.6	29.85	758.2	57.8	14.3	62	se.	.....	.....	3	.....	7	.....	.....	.....	.....	d. clouds	Rev. C. H. Griffiths, F.M.S.
Truro, Royal Institution	29.64	752.8	29.69	754.1	54	12.2	79	se.	.....	.....	4	.....	6	.....	.....	.....	.....	d. clouds	W. Newcombe.
Valencia, Observatory	29.59	751.6	29.61	752.1	47.9	8.8	83	e.	20	8.9	.....	.....	10	.....	.....	blank	blank	d. clouds	The Met'g'l Office.
CANADIAN.																			
Bathurst, N. B	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.10	764.5	30.15	765.8	28	— 2.2	96	s.	13	5.8	.....	.....	10 n	.....	.....	0.100	2.5	light snow	H. J Cundall, C. E.
Chatham, N. B*	30.05	763.3	30.12	765.0	21	— 6.1	96	n.	3	1.3	.....	.....	10 n	.....	n.	0.05	1.3	cloudy	G. A. Blair.
Father Point, Quebec*	30.05	763.3	30.07	763.8	19	— 7.2	91	e.	20	8.9	.....	.....	10 s	.....	calm	0.05	1.3	threatening	J. McWilliams.
Fort Garry, Manitoba*	29.28	743.7	30.18	766.6	10	—12.2	91	calm	0	0	.....	0	0	.....	.....	0	0	clear	James Stewart.
Halifax, N. S*	30.05	763.3	30.19	766.8	30	— 1.1	96	se.	7	3.1	.....	.....	10 n	.....	.....	0.105	2.7	light snow	A. Allison.
Kingston, Ontario*	29.36	745.7	29.70	754.4	41	5.0	89	sw.	9	4.0	.....	2 c	10 s	w.	sw.	0.07	1.8	cloudy	A. P. Knight, M. A.
Montreal, Quebec*	29.46	748.3	29.68	753.9	28	— 2.2	96	n.	8	3.6	.....	.....	10 s	.....	.....	0.01	0.3	light rain	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.08	738.6	29.78	756.4	38	3.3	89	w.	10	4.5	.....	0	0	.....	.....	0	0	clear	Rev. R. Mosley.
Port Dover, Ontario	29.16	740.7	29.84	757.9	54	12.2	87	sw.	12	5.4	.....	.....	10 n	.....	.....	0.13	3.3	threatening	H. Morgan.
Port Stanley, Ontario	29.22	742.2	29.87	758.7	45	7.2	86	w.	16	7.2	.....	.....	10 n	.....	w.	0.08	2.0	cloudy	M. Payne.
Quebec, Quebec*	29.55	750.6	29.89	759.2	24	— 4.4	100	e.	.....	.....	3	.....	10 n	.....	e.	0.27	6.9	heavy snow	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.24	742.7	29.71	754.6	32	0.0	88	calm	0	0	.....	.....	10 ks	.....	w.	0	0	cloudy	W. H. McIntyre.
Saugeen, Ontario*	29.12	739.6	29.84	757.9	42	5.6	86	w.	6	2.7	.....	0	0	.....	.....	0	0	clear	
St. Andrews, N. B	29.92	760.0	29.97	761.2	33	0.6	96	se.	3	1.3	.....	.....	10 n	.....	.....	0.09	2.3	snowing	
Sydney, C. B*	30.22	767.6	30.28	769.1	26	— 3.3	88	s.	16	7.2	.....	.....	10 n	.....	.....	0	0	cloudy	T. C. Hill, C. E.
Toronto, Ontario*	29.39	746.5	29.77	756.1	55	12.8	77	w.	8	3.6	.....	.....	10 ks	.....	w.	0.08	2.0	cloudy	Magnetic Observatory.
Yarmouth, N. S*	29.97	761.2	30.04	763.0	34	1.1	92	s.	9	4.0	.....	fg	fg.	.....	.....	0.13	3.3	foggy	Lt. F. E. Wilmot, R. N.
Sub-arctic.																			
St. Johns, Newfoundland	30.24	768.1	30.51	774.9	20	— 6.7	.....	w.	2	0.9	.....	0	0	.....	.....	0	0	fair	John Delany.
CAPE COLONY.																			
Cape St. Francis Lt. House	29.98	761.5	30.01	762.2	71.0	21.7	75	e.	6.4	2.9	.....	10 cs	0	.....	.....	0.060	1.5	.....	John Duthie.
Cape Town, O. G. H. Obs'y	29.93	760.2	29.97	761.2	72.2	22.3	65	sse.	28	12.5	.....	10	10	.....	.....	0	0	.....	The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
CHINESE (*Sub-series*).																			
Hankow	29.79	756.7	30.07	763.8	53.4	11.9	97	nnw.	.....	.....	3	.....	10	.....	.....	1.19	30.2	rainy	N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.79	756.6	29.82	757.3	56.8	13.8	94	e.	7.4	3.3	.....	.....	10 n	.....	.....	0.165	4.7	raining	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	30.23	767.9	30.28	769.1	40.1	4.5	63	e.	21.3	9.5	.....	.....	9	.....	.....	.....	.....	.....	Oversergent Fischer.
Fanöe	30.19	766.7	30.21	767.2	42.8	6.0	85	ene.	.....	.....	6	.....	1	.....	.....	.....	.....	.....	Overloerer Lauridsen.
Godthaab, Greenland	29.88	759.0	29.93	760.1	18.1	— 7.7	97	calm	.....	.....	0	.....	10	.....	.....	.....	.....	.....	S. Kleinschmidt.
Stykkisholm, Iceland	30.33	770.3	30.37	771.4	36.1	2.3	85	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	A. O. Thoriacius.
Thorshavn	30.38	771.7	30.42	772.6	44.2	6.8	74	e.	16	7	.....	.....	4	.....	.....	.....	.....	.....	Overloerer Bergh.
Vestervig	30.20	767.0	30.29	769.3	42.6	5.9	60	e.	.....	.....	6	.....	1	.....	.....	.....	.....	.....	Loearer Oesterbol.
FRENCH.																			
Agen, Normal School	29.20	741.7	29.84	758.0	60.4	15.8	64	sse.	.....	.....	1	.....	0	.....	.....	0.035	0.9	clear	M. Labroue, Director.
Alençon, Normal School	29.29	743.9	29.84	757.9	53.6	12	83	s.	.....	.....	1	ck	.....	s.	s.	0.173	4.4	.....	M. Nicot, Director.
Arras, Engineer School	29.59	751.6	29.84	758.0	60.6	15.9	67	.....	.....	.....	.....	0	2 k	.....	.....	0	0	clear	Capt. Bertrand, Dir.
Avignon, Normal School	29.85	758.1	29.93	760.1	59.4	15.2	68	e.	.....	.....	1	.....	2	.....	se.	0.55	14.	slightly cl'dy	M. Giraud, Director.
Bar-sur-Seine	29.31	744.5	29.86	758.4	59.9	15.5	54	s.	.....	.....	1	.....	8	.....	.....	0	0	very cloudy.	M. Saillard, Director.
Beauvais, Normal School	29.61	752.1	29.87	758.8	58.6	14.8	56	sse.	.....	.....	1	.....	5	.....	se.	0	0	cloudy	M. Frère Eugène Marl.
Besançon, Normal School	28.94	735.0	29.83	757.6	59.0	15.0	70	ne.	.....	.....	1	0	1 n	.....	n.	0	0	clear	M. Gobin, Director.
Bordeaux, Observatory	29.52	749.8	29.78	756.5	59.7	15.4	58	se.	.....	.....	1	.....	8	.....	.....	0	0	very cloudy	M. Rayet, Director.
Bourges, Normal School	29.29	744.0	29.88	759.0	60.8	16	45	e.	.....	.....	1	ck	0	e.	.....	0	0	.....	M. Postel, Director.
Brest, Naval Observatory	29.50	749.2	29.74	755.4	49.6	9.8	89	s.	.....	.....	3	.....	10	.....	s.	0.138	3.5	raining	M. de Kermaree, Dir.
Caen, Normal School	29.77	756.2	29.84	758.0	58.3	14.6	56	se.	.....	.....	1	.....	5	.....	se.	0.020	0.5	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.52	749.8	29.84	757.9	64.4	18.0	37	s.	.....	.....	1	.....	2	.....	.....	0	0	slightly cl'dy	M. Jadot, Director.
Charleville, Normal School	29.42	747.3	29.93	760.3	62.2	16.8	26	e.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.48	723.5	29.81	757.1	62.2	16.8	35	se.	.....	.....	1	.....	5	.....	.....	0.130	3.3	stormy	M. Alluard, Director.
Cluny, Normal School	29.04	737.6	29.89	759 2	57.9	14.4	47	e.	.....	.....	3	.....	.....	.....	.....	0	0	.....	M. de Villemontée, Dir.
Commercy, Normal School	29.04	737.6	29.91	759.6	62.4	16.9	37	ene.	.....	.....	1	2 c	.....	ene.	ene.	0	0	slightly cl'dy	Dr. Coulet, Director.
Gap, Normal School	27.39	695.7	29.91	759.8	55.0	12.8	25	sw.	.....	.....	2	0	1 k	.....	sw.	0	0	.....	M. Jeangirard, Director.
Gréasque, du. Rhone	28 80	731.5	29.91	759.7	60.6	15.9	50	ssw.	.....	.....	3	.....	6	.....	sé.	0.08	2.	.....	M. Kina, Director.
Grenoble, Normal School	29.10	739.0	29.85	758.2	61.2	16.2	65	nw.	.....	.....	2	2 ck	0	.....	.....	0	0	.....	M. Ablard, Director.
Guéret, Normal School	28.26	717.7	29.82	757.3	54.1	12.3	54	sse.	.....	.....	1	.....	kn	.....	sse.	0	0	.....	M. Rivoire, Director.
Lamballe, Normal School	29.49	749.0	29.76	755.9	56.1	13.4	60	se.	.....	.....	2	.....	5	.....	se.	0.220	5.6	raining	M. Olliffrault, Director.
Lescar, Normal School	29.20	741.9	29.76	755.9	66.2	19	33	ne.	.....	.....	1	.....	0	.....	.....	0.110	2.8	clear	M. Chauvin, Director.
Lorient, Naval Observatory	29.67	753.5	29.77	756.1	58.1	14.5	74	se.	.....	.....	6	.....	2	.....	se.	0.189	4.8	¼ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.84	732.6	29.89	759.2	57.9	14.4	52	s.	.....	.....	2	.....	8 n	.....	sse.	0	0	al. covered	M. André, Director.
Mans, Normal School	29.55	750.5	29.85	758.3	55.4	13	60	n.	.....	.....	4	.....	5	.....	ne.	0.165	4.2	cloudy	M. Piboen, Director.
Marseille, Observatory	29.67	753.5	29.93	760.3	60.6	15.9	60	ese.	.....	.....	2	.....	8	.....	s.	0.012	0.3	.....	M. Stephan, Director.
Montlouis l'Instituteur	24.63	625.5	29.47	748.5	46.0	7.8	46	wsw.	15.0	6.7	.....	.....	0	.....	.....	.....	.....	.....	M. Cave, for Dr. Fines.
Montpellier, Normal School	29.75	755.7	29.88	759.0	61.2	16.2	75	ssw.	.....	.....	3	.....	2	.....	ssw.	0	0	slightly cl'dy.	M. Galzin, Director.
Nancy, Normal School	29.11	739.5	29.90	759.4	58.6	14.8	44	nnw.	.....	.....	1	0	2 k	.....	.....	0	0	slightly cl'dy	M. Hasse, Director
Nantes, Observatory	29.65	753.2	29.82	757.4	62.6	17	41	sse.	.....	.....	1–3	ck	7 k;kn	.....	.....	0.071	1.8	.....	M. Larocque, Director.
Perpignan, Observatory	29.75	755.7	29.86	758.5	56.5	13.6	70	e.	11.2	5.0	.....	.....	8	.....	s;se	0	0	.....	Dr. Fines, Director.
Pic-du-Midi, Summit	20.96	532.5	.....	.....	24.1	— 4.4	.....	sw.	.....	.....	1	.....	1	.....	sw.	0	0	clear	Gen'l de Nansouty, Dir.
Privas, Normal School	28.84	732.6	29.90	759.4	57.2	14	47	se.	.....	.....	1	.....	1c	.....	se.	0	0	covered	M. Taillen.
Puy de Dôme Obs'y, Summit	24.97	634.3	.....	.....	37.0	2.8	84	se.	.....	.....	3	0	8 k	.....	sse.	0.020	0.5	¾ covered	M. Alluard, Director.
Rochefort, Naval Obs'y	29.78	756.5	29.82	757.3	64.0	17.8	96	sse.	.....	.....	1	.....	2	.....	s.	0	0	¼ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.56	750.9	29.77	756.2	60.1	15.6	50	se.	.....	.....	1	.....	2	.....	n.	0	0	slightly cl'dy	M. Mouillot, Director.
Rodez, Normal School	27.66	702.5	29.82	757.3	54.0	12.2	63	sw.	.....	.....	1	.....	5	.....	.....	0	0	fair	M. Serger, Director.
Rouen, Normal School	29.82	757.3	29.86	758.5	59.7	15.4	66	se.	.....	.....	1	.....	2	.....	.....	0	0	slightly cl'dy	M. Brotier.
Saint Maur, Observatory	29.71	754.6	29.87	758.8	61.2	16.2	54	wsw.	.....	.....	1	.....	0	.....	.....	0	0	.....	M. Renou, Director.
Toulouse, Observatory	29.13	740.0	29.85	758.3	58.6	14.8	74	sse.	.....	.....	2	.....	2	.....	.....	0	0	slightly cl'dy	M. Baillaud, Director.
Versailles, Observatory	29.38	746.3	29.87	758.8	60.1	15.6	52	sw.	.....	.....	1	.....	.....	.....	.....	0	0	.....	Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.59	751.5	29.88	758.9	61.9	16.6	50	se.	.....	.....	1	.....	3	.....	sse.	0	0	.....	M. Marié Davy, Director
GERMAN.																			
Bamberg	29.00	736.6	29.85	758.2	64.4	18.0	40	se.	.....	.....	2	0	4 k	.....	se.	0	0	.....	Prof. Dr. Hoh.
Berlin	29.91	759.6	30.09	764.2	46.6	8.1	74	e.	.....	.....	2	.....	10	.....	.....	0.004	0.1	.....	Prof. Dr. Arndt.
Breslau	29.52	749.8	30.05	763.3	52.0	11.1	72	ene.	.....	.....	2	.....	6	w.	.....	0.071	1.8	.....	Royal University Obs'y.
Carlsruhe	29.47	748.4	29.90	759.5	57.6	14.2	67	sw.	.....	.....	2	.....	3	se.	.....	0.087	2.2	lightning	Albert Senz.
Cassel	29.21	741.8	29.92	760.0	52.9	11.6	73	e.	.....	.....	3	.....	8	e.	.....	0	0	.....	Dr. H. Möhl.
Frankfort on the Main	28.74	730.0	29.09	738.9	57.9	14.4	70	nnw.	.....	.....	1	.....	6	.....	.....	0	0	.....	Physical Society.
Friedrichshafen	28.44	722.4	29.87	758.6	55.0	12.8	69	s.	.....	.....	2	.....	2	ssw.	.....	0	0	.....	Wilhelm, Chief Tel.
Hamburg	30.03	762.8	30.13	765.2	43.0	6.1	78	e.	.....	.....	5	.....	9	.....	.....	0	0	hazy	E. Preller.
Kiel	30.15	765.9	30.17	766.3	41.2	5.1	69	e.	.....	.....	6	.....	10	.....	.....	0	0	.....	Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.56	750.7	29.98	761.5	47.3	8.5	84	ne.	.....	.....	3	.....	10	ne.	.....	0	0	stormy	H. Leppig, Asst.
Magdeburg	29.85	758.3	30.05	763.2	45.9	7.7	85	e.	.....	.....	1	.....	10 ks	.....	ne.	0	0	.....	Dr. Assmann.
Memel	30.21	767.2	30.25	768.4	47.5	8.6	46	ne.	.....	.....	4	0	2 k	.....	.....	.....	.....	.....	Issermann.
Munich	28.03	711.9	29.88	758.9	58.1	14.5	56	calm	.....	.....	0	.....	2	nw.	.....	0	0	.....	Central Station
Neufahrwasser	30.22	767.6	30.24	768.0	39.6	4.2	80	ne.	.....	.....	2	.....	9	.....	.....	0	0	.....	A. Lothes.
Neustadt, Palatinate	29.35	745.4	29.87	758.7	61.2	16.2	57	ne.	.....	.....	2	.....	3	ne.	.....	0	0	.....	Dickmether.
Stuttgart	28.92	734.6	29.80	756.9	61.7	16.5	56	n.	.....	.....	2	.....	3	e.	.....	0.169	4.3	.....	Prof. Dr. Schoder.
Wustrow	30.19	766.7	30.21	767.4	40.8	4.9	73	e.	.....	.....	4	.....	10 s	.....	.....	0	0	.....	Profs. Brandes & Reimer
GREEK.																			
Athens	29.39	746.4	29.78	756.3	62.2	16.8	.....	n.	.....	.....	3.0	6k	0	.....	.....	0	0	.....	Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.86	758.4	29.91	759.6	81.0	27.2	71	wsw.	25.0	11.2	.....	.....	2	.....	.....	0	0	misty	
Leesa	29.35	745.4	29.81	757.2	92.8	33.8	30	w.	12.5	5.6	.....	.....	4	nw.	.....	0	0	d. clouds	
Bombay	29.78	756.3	29.81	757.2	86.6	30.3	65	w.	10.0	4.5	.....	.....	0	.....	.....	0.08	2.0	blue sky	
Poona, Yarrowda	27.93	709.4	29.75	755.6	88.2	31.2	37	wsw.	18.0	8.0	.....	.....	9	.....	wnw.	0.02	0.5	thud'rstorm	
Belgaum	27.27	692.7	29.75	755.6	88.1	31.2	50	sw.	8.0	3.6	.....	.....	2	e.	ne.	0	0	misty	
Lahore	28.98	736.0	29.71	754.5	87.0	30.6	31	calm	1.6	0.7	.....	.....	10	.....	.....	0	0	gloomy	
Roorkee	28.84	732.5	29.71	754.7	91.2	32.9	26	calm	4.1	1.8	.....	.....	8	.....	.....	0	0	.....	
Agra	29.20	741.6	29.74	755.4	97.1	36.2	13	n.	5.6	2.5	.....	.....	3	.....	n.	0	0	.....	
Nagpur	28.68	728.4	29.68	753.8	102.0	38.9	12	s.	3.9	1.7	.....	.....	7	.....	w.	0	0	d. clouds	
Jubbulpore	28.42	721.8	29.73	755.1	96.2	35.7	13	n.	2.0	0.9	.....	.....	2	.....	.....	0	0	d. clouds	
Lucknow	29.32	744.6	29.68	753.8	99.0	37.2	21	nnw.	10.6	4.7	.....	.....	0	.....	.....	0	0	blue sky	
Allahabad	29.41	747.1	29.72	754.8	90.6	35.9	23	nw.	4.6	2.1	.....	.....	8	.....	.....	0	0	d. clouds	
Patna	29.50	749.4	29.68	753.9	96.7	35.9	18	w.	6.2	2.8	.....	.....	5	w.	w.	0	0	d. clouds	
Hazaribagh	27.72	704.2	29.67	753.6	92.8	33.8	13	nw.	13.0	5.8	.....	.....	5	.....	nw.	0	0	misty	
Cuttack	29.68	754.0	29.76	756.0	89.1	31.7	55	s.	3.7	1.6	.....	.....	0	.....	.....	0	0	blue sky	
Calcutta, Alipore	29.70	754.4	29.72	755.0	86.5	30.3	69	s.	10.0	4.5	.....	.....	0	.....	.....	0	0	blue sky	
Dhubri	29.57	751.2	29.69	754.2	81.5	27.5	74	ene.	9.0	4.0	.....	.....	0	.....	.....	0	0	blue sky	
Chittagong	29.74	755.3	29.83	757.6	80.2	26.8	81	s.	7.9	3.5	.....	.....	2	.....	.....	0	0	blue sky	
Sibsagar	29.50	749.2	29.84	757.9	68.3	20.2	97	ne.	2.1	0.9	.....	.....	10	w.	w.	0.65	16.5	overcast	
Jeypore	28.36	720.4	29.78	756.3	90.4	32.4	18	nw.	6.6	3.0	.....	.....	6	.....	nw.	0	0	d. clouds	
Zanzibar, Africa	29.82	757.4	.....	.....	86.9	30.5	67	se.	5.3	2.4	.....	.....	6	.....	ese.	0	0	d. clouds	
Bellary	28.31	719.1	.....	.....	98.0	36.7	12	se.	3.9	1.7	.....	0	0	.....	.....	0	0	blue sky	
Trichinopoly	29.56	750.8	.....	.....	96.0	35.6	40	se.	1	0.4	.....	.....	6	.....	.....	0	0	d. clouds	
ITALIAN.																			
Udine	29.48	748.9	29.89	759.3	65.7	18.7	34	sw.	0.7	0.3	.....	.....	1	.....	.....	0.020	0.5	.....	Prof. Giovanni Clodig.
Milan	29.40	746.8	29.92	759.9	62.6	17.0	46	sw.	4.3	1.9	.....	.....	4	ene.	.....	0	0	.....	Prof. Schiaparelli.
Padua	29.78	756.5	29.89	759.3	64.0	17.8	51	ene.	5.6	2.5	.....	.....	4	se.	.....	0.012	0.3	.....	Prof. Dott. Lorenzoni.
Moncalieri	29.00	736.7	29.91	759.6	59.4	15.2	49	s.	3.1	1.4	.....	.....	5	ne.	.....	0	0	.....	Prof. P. F. Denza.
Genoa	29.75	755.7	29.94	760.5	59.0	15.0	65	sw.	4.9	2.2	.....	.....	2	s.	.....	0	0	.....	Prof. G. M. Garibaldi.
Mondovi	28.00	711.1	29.92	759.9	54.5	12.5	48	ne.	.....	.....	2	.....	0	.....	.....	0	0	.....	Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
ITALIAN.—Continued.																			
Pesaro	29.84	758.0	29.89	759.2	58.1	14.5	66	ne.	8.1	3.6	.....	.....	4	sw.	.....	0	0	.....	Prof. Luigi Guidi.
Florence	29.67	753.7	29.93	760.1	61.3	16.3	50	sw.	.....	.....	2	.....	6	wsw.	.....	0	0	.....	Prof. Costantino Pitter.
Leghorn	29.81	757.1	29.89	759.3	59.9	15.5	62	w.	0.7	0.3	.....	.....	2	w.	.....	0	0	.....	Prof. P. Monte.
Rome	29.72	754.8	29.89	759.2	66.2	19.0	48	w.	3.8	1.7	.....	.....	7	nw.	.....	0	0	.....	Prof. P. S. Ferrari.
Lecce	29.62	752.4	29.87	758.8	60.4	15.8	61	nnw.	1.8	0.8	.....	.....	4	nw.	.....	0	0	.....	Prof. C. de Giorgi.
Cosenza	29.00	736.7	29.89	759.3	57.6	14.2	74	wnw.	3.8	1.7	.....	.....	4	nw.	.....	0.059	1.5	.....	Prof. D. Conti.
Cagliari	29.72	754.8	29.91	759.7	61.0	16.1	56	sse.	.....	.....	4	.....	3	sw.	.....	0	0	.....	Prof. A. Pacinotti.
Palermo	29.71	754.6	29.96	760.9	61.7	16.5	62	ne.	5.6	2.5	.....	.....	4	wsw.	.....	0.067	1.7	.....	Prof. G. Ciaccíatore.
Syracuse	29.74	755.5	29.79	756.6	62.2	16.8	67	ese.	7.4	3.3	.....	.....	3	wsw.	.....	0.094	2.4	.....	Prof. Vincenzo Guiliano.
Sub-series.																			
Naples, S. It	29.37	746.1	29.89	759.2	61.3	16.3	66	sw.	7.4	3.3	.....	.....	7	nw.	.....	0.079	2.0	.....	Prof. T. Brioschi.
Stelvio	22.02	559.3	.....	.....	33.4	0.8	77	e.	.....	.....	2	.....	10	.....	.....	0	0	misty	Prof. P. F. Denza.
Valdobbia	22.06	560.3	.....	.....	31.3	— 0.4	88	e.	.....	.....	2	.....	10	.....	.....	0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Aomori	30.11	764.8	30.15	765.8	41.5	5.3	90	n.	4.5	2.0	.....	0	7 s	.....	.....	0	0	fair	K. Ogawa.
Hakodate	30.12	765.0	30.14	765.5	41.0	5.0	92	ene.	10.2	4.6	.....	.....	10	.....	.....	0	0	covered	
Hiroshima, I. M. Obs'y	29.93	760.2	29.94	760.5	53.3	11.8	96	wsw.	1.7	0.8	.....	.....	10 n	.....	.....	0.634	16.1	light rain	K. Sasaki.
Kanazawa	29.91	759.7	30.01	762.2	47.8	8.8	87	ese.	7.5	3.3	.....	ck	9 s	.....	w.	0.085	2.2	cloudy	S. Endo.
Kioto	29.82	757.4	30.00	762.0	55.6	13.1	77	e.	0.7	0.3	.....	ck	10 s	.....	.....	0.390	9.9	cloudy	M. Tojima.
Kochi	29.98	761.5	30.00	762.0	60.0	15.6	89	e.	0.7	0.3	.....	.....	10 n	.....	.....	0.452	11.5	light rain	
Nagnsaki, I. M. Obs'y	29.71	754.6	29.91	759.7	63.8	17.7	97	sw.	8.7	3.9	.....	.....	10 s	.....	.....	0.450	11.4	overcast	S. Takehayashi.
Niigata	30.03	762.7	30.07	763.8	46.6	8.1	89	nne.	4.0	1.8	.....	3 cs	0	.....	.....	inap.	inap.	fair	
Nobiru	30.11	764.8	30.12	765 0	43.9	6.6	89	e.	14.4	6.4	.....	ck	10ks;s	.....	.....	0.005	0.1	covered	H. Midzushina.
Supporo	.....	.....	.....	.....	37.0	2.8	98	calm	0	0	.....	.....	10	.....	.....	0.780	19.8	covered	
Tokei Obs'y, Yeddo	30.06	763.5	30.13	765.3	51.9	11.1	78	ene.	7.7	3.4	.....	ck	10 s	.....	wsw.	0	0	cloudy	The Staff.
Wakayama	29.93	760.2	29.99	761.7	57.0	13.9	85	e.	1.9	0.8	.....	ck	10 n	.....	w.	0.110	2.8	cloudy	Y. Kuwamuea.
MAURITIUS.																			
Mauritius Observatory	29.78	756.4	29.97	761.2	79.1	26.2	73	e.	18.0	8.0	.....	0	5 k;ks	.....	ese.	0.21	5.3	fair	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.68	601.6	29.55	750.6	66.7	19.3	76	sse.	.....	.....	.....	0	0	.....	.....	0	0	clear	Vicente Fernandez.
Leon	24.40	619.7	30.10	764.5	57.9	14.4	74	n.	.....	.....	1	0	0	.....	.....	0	0	foggy	Prof. M. Leal.
Mazatlan	29.74	755.3	30.00	761.9	67.0	19.4	84	nne.	0.9	0.4	.....	0	0	.....	.....	0	0	misty	F. Quijano, U. E.
Mexico, Central Obs'y	23.11	587.1	30.21	767.4	51.6	10.9	88	calm	0	0	.....	0	0	.....	.....	0.327	8.3	fine	The Staff.
Morelia	24.22	615.2	30.35	770.8	58.5	14.7	73	ese.	.....	.....	2	2	1	s.	s.	0	0	½ clouded	M. Tena, M. D.
Pabellon, Aguascalientes	23.96	608.6	30.00	761.9	54.3	12.4	79	calm	.....	.....	0	0	0	.....	.....	0	0	fine	M. V. de Leon, M. E.
Puebla, Catholic Institute	23.39	594.2	30.17	766.4	50.0	10.0	87	e.	1.8	0.8	.....	0	0	.....	.....	0.079	2.0	clear	Prof. P. Spina.
San Luis Potosi	24.18	614.1	30.14	765.6	65.4	18.6	65	n.	.....	.....	1	0	8	.....	e.	0	0	cloudy	G. Barroeta, M. D.
Zacatecas	22.61	574.2	30.20	767.1	53.6	12.0	73	wnw.	1.0	3.1	.....	0	0	.....	.....	0	0	fine	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.93	760.3	29.93	760.3	52.2	11.2	.....	e.	.....	.....	4	.....	.....	.....	.....	0	0	.....	
Gronlugen	29.99	761.7	30.04	763.1	44.1	6.7	.....	e.	.....	.....	3	.....	.....	.....	.....	0.055	1.4	.....	
Helder	30.00	762.0	30.00	762.0	43.9	6.6	.....	ene.	.....	.....	4	.....	.....	.....	.....	0	0	.....	
Hellevoetsluis	29.94	760.5	29.94	760.5	47.8	8.8	84	ene.	.....	.....	2	.....	.....	.....	.....	0	0	.....	
Utrecht	29.93	760.3	29.98	761.5	47.7	8.7	81	e.	.....	.....	3	.....	8	.....	.....	0	0	very cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	30.27	768.9	30.34	770.5	44.2	6.8	49	nnw.	7	3	.....	.....	0	.....	.....	0	0	.....	
Brono	30.38	771.7	30.42	772.7	39.2	4.0	62	calm	0	0	.....	.....	8	.....	.....	0	0	.....	
Christiania	30.19	766.9	30.34	770.7	44.4	6.9	48	ssw.	4	2	.....	.....	3	.....	.....	0	0	.....	
Gjæsvær	30.17	766.3	30.19	766.9	31.6	— 0.2	.....	w.	.....	.....	7	.....	10	.....	.....	.....	.....	.....	
Lodingen	30.34	770.5	30.38	771.7	37.0	2.8	83	calm	.....	.....	0	.....	9	.....	.....	.....	.....	.....	
PORTUGUESE.																			
Angra, Azores	.....	.....	.....	.....	62.2	16.8	66	nne.	11.2	5.0	.....	.....	3	.....	.....	0	0	.....	Dr. J. A. Sampaio.
Campo Major	28.80	731.4	29.78	756.5	59.7	15.4	60	ssw.	13.0	5.8	.....	.....	9	.....	.....	0.134	3.4	.....	Dr. A. M. R. dos Santos.
Funchal, Maderia	29.87	758.6	29.95	760.8	64.2	17.9	72	wsw.	.....	.....	.....	.....	5	.....	.....	0.583	14.8	.....	Capt. D. A. de Cunha.
Lisbon, Observatory	29.41	747.0	29.77	756.1	59.0	15.0	70	ssw.	19.2	8.6	.....	.....	10	.....	.....	0.024	0.6	.....	The Staff.
Ponta Delgada, Azores	29.87	758.7	29.94	760.5	63.3	17.4	70	nw.	6.3	2.8	.....	.....	3	.....	.....	0	0	.....	
Saint Paul de Loando	29.65	753.2	29.85	758.3	80.6	27.0	97	wnw.	0.7	0.3	.....	.....	9	ese.	.....	0	0	.....	
Serra da Estrella	24.95	633.7	29.74	755.5	36.7	2.6	100	se.	28.0	12.5	.....	.....	10	.....	.....	0.094	2.4	foggy	
RUSSIAN.																			
Akmolinski	29.09	738.9	30.24	768.0	22.8	— 5.1	74	ese.	13	6.	.....	0	0	.....	.....	0	0	.....	Major K. Lasarew.
Archangel	30.15	765.7	30.17	766.2	34.0	1.1	83	w.	9	4	.....	.....	10	.....	.....	0	0	.....	Capt. Sselliwerstow.
Astrakhan	30.06	763.6	29.98	761.5	57.9	14.4	52	calm	0	0	.....	0	1 k	.....	.....	0	0	.....	Capt. Wisganow.
Barnaul	30.06	763.5	30.60	777.2	24.6	— 4.1	59	ne.	2	1	.....	.....	0	.....	.....	0	0	.....	Meteorological Obs'y.
Dorpat	29.99	761.8	30.24	768.2	43.9	6.9	61	nne.	7	3	.....	0	6 k	.....	.....	0	0	.....	Observatory.
Ekaterinburg	29.13	740.0	30.13	765.3	35.1	1.7	63	sse.	9	4	.....	.....	9	.....	.....	0	0	light clouds	Meteorological Obs'y.
Kasan	29.67	753.5	29.95	760.7	30.4	— 0.9	86	e.	4	2	.....	.....	10	.....	.....	0.087	2.2	light snow	Observatory.
Kertch	29.83	757.6	29.85	758.1	59.9	15.5	51	ne.	7	3	.....	0	1 s	.....	.....	0	0	.....	Lagorio & Sastyrex.
Kieff	29.15	740.5	29.77	756.1	65.7	18.7	34	sw.	9	4	.....	c	4 k;ks	.....	.....	0.008	0.2	.....	Observatory.
Lugan	29.60	751.9	29.80	757.0	68.2	20.1	33	sw.	13	6	.....	.....	5	.....	.....	0	0	.....	Meteorological Obs'y
Moscow	29.44	747.8	29.93	760.3	35.6	2.0	77	n.	7.8	3.5	.....	.....	10 s	.....	.....	0.016	0.4	.....	Meteorological Obs'y.
Nikolaiev	29.83	757.7	29.90	759.5	58.9	20.5	46	calm	0	0	.....	0	0	.....	.....	0	0	.....	Capt. Kurdakow.
Nikolaievsk, on the Amoor	29.76	755.8	29.84	758.0	32.4	0.2	83	se.	16	7	.....	.....	10	.....	.....	0.118	3.0	.....	Lieut. Iwanow.
Pekin, China	29.81	757.1	29.95	760.7	55.9	13.3	75	calm	0	0	.....	.....	9 n	.....	.....	0	0	.....	Physical Observatory
St. Petersburg	30.20	767.0	30.21	767.4	39.2	4.0	78	wnw.	4	2	.....	.....	10 kn	.....	.....	0	0	.....	Central Physical Obs'y
Ssemipalatinsk	29.80	756.9	30.49	774.5	31.5	— 0.3	52	calm	0	0	.....	0	0	.....	.....	0	0	.....	Major Lasaren.
Tashkend, Laboratory	28.43	722.2	30.02	762.4	52.9	11.6	95	calm	0	0	.....	.....	10	.....	.....	blank	blank	heavy cl'ds	Teich, A. M.
Tiflis	28.55	725.2	29.95	760.6	64.2	17.9	50	se.	4	2	.....	2 ck	0	.....	.....	0	0	.....	Physical Observatory
Vladivostok	30.03	762.8	30.10	764.5	34.5	1.4	100	calm	0	0	.....	0	8 n	.....	.....	0	0	.....	
Warsaw	29.65	753.1	30.08	764.1	45.1	7.3	72	nne.	11	5	.....	.....	10 ks	.....	.....	.....	.....	.....	Astronomical Obs'y
Wilna	29.70	754.3	30.13	765.2	43.2	6.2	69	nne.	7	3	.....	.....	9	.....	.....	0.047	1.2	heavy cl'ds	Berg, Assistant.
Yeniseisk	30.22	767.6	30.52	775.3	31.8	— 0.1	46	w.	2	1	.....	.....	5	.....	.....	0	0	light clouds	M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	29.70	754.4	29.81	757.1	59.0	15.	77	se.	3.4	1.5	.....	.....	3	.....	.....	0	0	clearing	Antonio Rave, Director.
Bilbao, Met. Obs'y	29.72	754.9	29.78	756.4	63.0	17.2	48	s.	3.4	1.5	.....	4	5	w.	.....	0	0	almost cov'd	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	26.83	681.4	29.78	756.3	53.1	11.7	46	s.	9.8	4.4	.....	.....	5	.....	.....	0.165	4.2	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27.62	701.5	29.84	757.8	55.4	13.0	54	sw.	9.8	4.4	.....	.....	10	.....	.....	0.028	0.7	covered	The Staff.
Murcia, Met. Obs'y	29.71	754.5	29.85	758.2	69.3	20.7	50	e.	1.8	0.8	.....	5	4	ne.	.....	0	0	almost cov.	Olayo Diaz, Director.
Santiago, Met. Obs'y	28.72	729.4	29.62	752.4	46.0	7.8	92	s.	15.0	6.7	.....	.....	10	.....	.....	0.406	10.3	raining	R. Gil Vallanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I	30.01	762.2	30.07	763.8	70.0	21.1	87	ese.	5.8	2.6	.....	4 c	3 k;sk	wnw.	.....	2.453	62.3	fair	Benito Vines, S. J.
Manilla, Philippine Islands	29.92	760.0	29.98	761.4	82.4	28.0	59	ese.	6.4	2.9	.....	0	s	.....	.....	0	0	clear	F. Faura, S. J.
San Fernando, Naval Obs'y	29.84	758.0	29.94	760.5	60.3	15.7	76	ssw.	2.1	0.9	.....	0	9	.....	s.	0.118	3.0	.....	Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	30.00	762.0	30.09	764.3	69.1	20.6	98	calm	0	0	.....	2 cs	3 k	s.	s.	0	0	d. clouds	Manuel Maeu.
Tuguegarao, Philippine Id's	29.85	758.2	29.98	761.5	82.1	27.8	67	ssw.	2.9	1.3	.....	0	0	.....	.....	0	0	clear	José L. Yrastorza.
SWEDISH																			
Haparanda	30.26	768.5	30.30	769.5	37.8	3.2	59	ne.	.....	.....	2	.....	0	.....	.....	0	0	.....	
Umea	30.26	768.7	30.32	770.0	41.4	5.2	66	ne.	.....	.....	4	.....	7	.....	.....	0	0	.....	
Hernosand	30.27	768.8	30.32	770.1	42.3	5.7	45	n.	.....	.....	2	.....	3	.....	.....	0	0	.....	
Stockholm	30.17	766.2	30.34	770.7	41.4	5.2	31	w.	.....	.....	2	.....	0	.....	.....	0	0	.....	
Wisby	30.21	767.3	30.27	768.8	39.2	4.0	80	ne.	.....	.....	4	.....	7	.....	.....	0	0	.....	
Sub-series.																			
Upsala	30.21	767.3	30.30	769.5	44.4	6.9	37	w.	4.9	2.2	.....	.....	0	.....	.....	0	0	.....	S. G. Fineman.
SWISS.																			
Geneva	28.48	723.4	29.91	759.7	54.3	12.4	42	n.	.....	.....	2	.....	.....	.....	.....	inap.	inap.	clear	The Observatory

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Turkish.																			
Constantinople	.....	.....	29.74	755.4	47.1	8.4	88	n.	15	6.5	.....	.....	10	.....	n.	0.091	2.3	.....	The Observatory.
Valona	.....	.....	29.91	759.8	62.1	16.7	.....	w.	.....	.....	1	.....	5	.....	.....	0	0	cloudy.....	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	29.63	752.7	64.0	17.8	84	sw.	.....	.....	3	.....	10 n	.....	sw.	0.55	14.0	.....	Prof. C. V. A. van Dyck.
United States.																			
Albany, New York	29.78	756.4	29.86	758.4	46.5	8.1	74	sw.	6	2.7	.....	10 cs	sk.	.....	.....	0.01	0.3	cloudy	J. O. Barnes.
Alpena, Michigan	29.29	744.0	29.98	761.5	43	6.1	74	nw.	12	5.4	.....	0	0	.....	.....	0	0	clear.....	Jas. J. Fitzgerald.
Atlanta, Georgia	29.19	741.4	30.38	771.6	62.0	16.7	78	s.	6	2.7	.....	.....	10 s	.....	sw.	inap.	inap.	cloudy	H. Hall.
Atlantic City, New Jersey	30.06	763.5	30.06	763.5	52.8	11.6	86	sw.	8	3.6	.....	0	fg.	.....	.....	0	0	clear.....	Jas. M. Watson.
Augusta, Georgia	30.22	767.6	30.41	772.4	60.0	15.6	87	calm	0	0	.....	0	0	.....	.....	0	0	clear.....	John Healy.
Baltimore, Maryland	30.07	763.8	30.12	765.0	56	13.3	80	w.	5	2.2	.....	7 cs	hz.	w.	.....	0	0	fair.....	Robert Seyboth.
Barnegat, New Jersey	30.02	762.5	30.04	763.0	54.3	12.4	83	sw.	14	6.3	.....	0	0	.....	.....	0	0	clear.....	Chas. F. Merritt.
Bismarck, Dakota	28.16	715.3	30.03	762.7	33	0.6	81	e.	12	5.4	.....	5 k	0	nw.	.....	0	0	fair.....	Cyrus Cramer.
Boise City, Idaho	27.08	687.8	29.92	760.0	43	6.1	68	nw.	2	0.9	.....	0	2 s	.....	w.	0	0	clear.....	B. E. Light.
Boston, Massachusetts	29.75	755.6	29.91	759.7	43.0	6.1	93	sw.	9	4.0	.....	.....	10 s	.....	.....	0.01	0.3	cloudy	O. B. Cole.
Brownsville, Texas	29.96	761.0	30.01	762.2	72	22.2	90	se.	4	1.8	.....	.....	10 s	.....	se.	0	0	threatening	J. C. Galloway.
Buffalo, New York	29.10	739.1	29.87	758.7	45.6	7.6	87	sw.	27	12.1	.....	.....	10 s	.....	sw.	0.01	0.3	cloudy	W. Finn.
Burlington, Vermont	29.40	746.7	29.70	754.4	43.3	6.3	75	s.	22	9.8	.....	.....	10 s	.....	w.	inap.	inap.	cloudy	G. C. Schaeffer.
Cairo, Illinois	29.85	758.2	30.26	768.6	63.6	17.6	80	s.	8	3.6	.....	0	hz.	.....	.....	0	0	clear.....	W. H. Ray.
Campo, California	27.40	695.9	29.98	761.5	43.2	6.2	93	nw.	1	0.4	.....	4 ck	4 ks	sw.	sw.	0	0	cloudy.....	W. H. Clendenon.
Camp Thomas, Arizona	27.21	691.1	29.94	760.5	53	11.7	61	se.	.....	.....	1	0	4 s	.....	.....	0	0	fair.....	J. T. Fitzgerald.
Cape Henry, Virginia	30.23	767.8	30.25	768.3	60	15.6	70	sw.	24	10.7	.....	0	0	.....	.....	0	0	clear.....	J. E. Lanouette.
Cape May, New Jersey	30.07	763.8	30.10	764.5	55	12.8	80	sw.	28	12.5	.....	hz.	hz.	.....	.....	0	0	light haze..	W. Bolten.
Cedar Keys, Florida	30.29	769.4	30.31	769.9	63	17.2	78	ne.	8	3.6	.....	0	0	.....	.....	0	0	clear.....	F. W. Mixer.
Champaign, Illinois	29.24	742.7	30.08	764.0	62.0	16.7	81	s.	12	5.4	.....	.....	10 ks	.....	w.	0.03	0.8	cloudy	L. A. Welsh.
Charleston, S. Carolina	30.31	769.9	30.37	771.4	63	17.2	84	calm	0	0	.....	0	0	.....	.....	0	0	clear.....	J. H. Smith.
Charlotte, N. Carolina	29.47	748.5	30.33	770.4	60.0	15.6	81	sw.	3	1.3	.....	0	fg.	.....	.....	0	0	clear.....	D. O. Donoghue.
Chattanooga, Tennessee	29.54	750.3	30.36	771.1	57.0	13.9	86	calm	0	0	.....	6 ck	fg.	n.	.....	inap.	inap.	fair.....	B. L. Goulding.
Cheyenne, Wyoming	24.10	612.1	30.10	764.5	40.6	4.8	33	w.	4	1.8	.....	0	0	.....	.....	0	0	clear.....	E. McGovern.
Chicago, Illinois	29.27	743.4	30.00	762.0	58.9	14.9	87	sw.	6	2.7	.....	0	0	.....	.....	0.41	10.4	clear.....	J. Mitchell.
Chincoteague, Virginia	30.16	766.1	30.18	766.6	59	15.0	75	sw.	12	5.4	.....	0	hz.	.....	.....	0	0	clear.....	V. P. Temple.
Cincinnati, Ohio	29.49	749.0	30.16	766.1	63	17.2	73	w.	5	2.2	.....	7 ck;k	0	sw.	.....	0	0	fair.....	R. B. Watkins.
Cleveland, Ohio	29.23	742.4	29.99	761.7	63.8	17.7	59	sw.	15	6.7	.....	.....	10 s	.....	sw.	inap.	inap.	cloudy	J. B. Newlin.
Coleman City, Texas	28.32	719.3	30.14	765.5	58	14.4	93	se.	6	2.7	.....	0	6 s	.....	.....	0	0	fair.....	L. Dorman.
Columbus, Ohio	29.25	742.9	30.12	765.0	62	16.7	67	w.	12	5.4	.....	6 cs	4 s	w.	w.	0	0	cloudy	D. Cuthbertson.
Concho, Texas	28.18	715.8	30.12	765.0	61	16.1	90	ne.	4	1.8	.....	.....	10 s	.....	s.	0	0	cloudy	W. W. McConihe.
Davenport, Iowa	29.34	745.2	30.01	762.2	61	16.1	78	w.	3	1.3	.....	hz.	hz.	calm	calm	inap.	inap.	light haze...	R. R. Martin.
Dayton, Washington T'y	28.11	714.0	29.86	758.4	43	6.1	74	ne.	1	0.4	.....	2 k	0	.....	.....	0	0	clear.....	H. Clifford.
Deadwood, Dakota	25.33	643.4	30.02	762.5	47	8.3	48	sw.	6	2.7	.....	0	0	.....	.....	0	0	clear.....	G. W. Scott.
Decatur, Texas	.....	.....	.....	.....	58	14.4	64	s.	8	3.6	.....	0	0	.....	.....	0	0	clear.....	D. J. Carr.
Delaware Breakwater, Del	30.10	764.5	30.12	765.0	55	12.8	86	sw.	34	15.2	.....	0	hz.	.....	.....	0	0	clear.....	A. Schneider.
Denison, Texas	29.38	746.2	30.18	766.6	59.3	15.2	81	s.	4	1.8	.....	0	0	.....	.....	0	0	clear.....	J. McGlone.
Denver, Colorado	24.79	629.7	30.06	763.5	47.0	8.3	35	se.	4	1.8	.....	0	0	.....	.....	0	0	clear.....	F. M. Neal.
Des Moines, Iowa	29.13	739.9	30.06	763.5	53	11.7	66	ne.	2	0.9	.....	0	.....	.....	.....	0	0	clear.....	F. W. Conrad.
Detroit, Michigan	29.23	742.4	29.96	761.0	61.0	16.1	78	w.	9	4.0	.....	0	9 s	.....	w.	inap.	inap.	cloudy	C. F. R. Wappenhans.
Dodge City, Kansas	27.40	695.9	30.04	763.0	54.5	12.5	71	s.	11	4.9	.....	0	4 s	.....	.....	0	0	fair.....	E. A. Thomas.
Dubuque, Iowa	29.27	743.4	30.00	762.0	53.2	11.8	72	w.	1	0.4	.....	0	fg.	.....	calm	0.11	2.8	clear.....	J. Harvey Smith.
Duluth, Minnesota	29.43	747.5	30.15	765.8	37	2.8	82	ne.	4	1.8	.....	.....	10 s	.....	calm	0	0	cloudy	N. B. Conger.
Eagle Pass, Texas	29.28	743.7	30.09	764.3	67.2	19.6	93	se.	7	3.1	.....	.....	10 s	.....	se.	0.49	12.4	cloudy	F. Belford.
Eagle Rock, Idaho	25.26	641.6	29.98	761.5	35	1.7	72	w.	8	3.6	.....	0	0	.....	.....	0	0	clear.....	J. M. Clifford.
Eastport, Maine	29.90	759.4	29.96	761.0	34	1.1	94	s.	11	4.9	.....	.....	ion;fg	.....	s.	0.15	3.8	light snow..	J. H. Melton.
El Paso, Texas	26.30	668.0	30.04	763.0	51	10.6	72	e.	1	0.4	.....	0	0	.....	.....	0	0	clear.....	J. F. Marshall.
Erie, Pennsylvania	29.20	741.7	29.95	760.7	62	16.7	60	sw.	22	9.8	.....	.....	10 s	.....	sw.	0.46	11.7	cloudy.....	R. H. Paxton.
Escanaba, Michigan	29.39	746.5	30.08	764.0	32	0.0	88	n.	17	7.6	.....	.....	10 s	.....	n.	0	0	cloudy.....	C. Dill.
Florence, Arizona	28.44	722.4	29.94	760.5	54.2	12.3	51	sw.	3	1.3	.....	8 cs	2 s	w.	w.	0	0	cloudy	R. R. Herman.
Fort Apache, Arizona	25.05	636.3	29.97	761.2	37	2.8	75	ne.	2	0.9	.....	0	0	.....	.....	0	0	clear.....	W. C. Barnes.
Fort Assinnaboine, Montana	27.04	686.8	29.94	760.5	35	1.7	72	se.	3	1.3	.....	0	0	.....	.....	0	0	clear.....	B. O. Lenoir.
Fort Bennett, Dakota	28.32	719.3	29.96	761.0	39	3.9	82	se.	6	2.7	.....	0	1 s	.....	.....	0	0	clear.....	T. Gibson.
Fort Benton, Montana	27.07	687.6	29.93	760.2	34	1.1	65	calm	0	0	.....	0	0	.....	.....	0	0	clear.....	S. Wheaton.
Fort Buford, Dakota	27.96	710.2	30.03	762.7	35	1.7	66	ne.	11	4.9	.....	10 cs	0	calm	.....	0	0	cloudy	A. H. Bell.
Fort Custer, Montana	26.77	679.9	29.95	760.7	40	4.4	67	s.	3	1.3	.....	0	0	.....	.....	0	0	clear.....	V. Verge.
Fort Davis, Texas	25.18	639.6	29.98	761.5	47	8.3	80	s.	3	1.3	.....	0	0	.....	.....	0.22	5.6	clear.....	J. Williams.
Fort Elliott, Texas	27.30	693.4	30.08	764 0	54	12.2	69	s.	4	1.8	.....	0	0	.....	.....	0	0	clear.....	W. J. Cundall.
Fort Gibson, Indian T'y	29.61	752.1	30.19	766.8	63.5	17.5	68	s.	7	3.1	.....	0	0	.....	.....	0	0	clear.....	J. B. Campbell.
Fort Grant, Arizona	25.28	642.1	30.01	762.2	54	12.2	23	calm	0	0	.....	5 cs	0	.....	.....	0	0	fair.....	T. J. Macgowan.
Fort Griffin, Texas	28.85	732.8	30.15	765.8	55	12.8	86	se.	2	0.9	.....	0	0	.....	.....	0	0	clear.....	G. H. Hayne.
Fort Keogh, Montana	27.39	695.7	29.93	760.2	37	2.8	56	e.	4	1.8	.....	1 cs	0	.....	.....	0	0	clear.....	W. B. Stockman.
Fort Macon, North Carolina	30.35	770.9	30.36	771.1	60	15.6	93	sw.	10	4.5	.....	hz.	0	calm	.....	0	0	clear.....	L. Leonardy.
Fort McKavett, Texas	27.87	707.9	30.13	765.3	62	16.7	72	s.	5	2.2	.....	0	0	.....	.....	0	0	clear.....	J. E. Thatcher.
Fort Missoula, Montana	26.62	676.1	28.93	760.2	31	— 0.6	88	sw.	1	0.4	.....	0	0	.....	.....	0	0	clear.....	J. H. Jones.
Fort St. Michaels, Alaska	30.02	762.5	30.06	763.5	— 7	—21.7	100	calm	0	0	.....	0	0	.....	.....	0	0	clear.....	A. P. Leavitt.
Fort Shaw, Montana	26.27	667.2	29.94	760.5	33	0.6	62	s.	1	0.4	.....	0	0	.....	.....	0	0	clear.....	A. L. Matthews.
Fort Sill, Indian Territory	28.90	734.0	30.14	765.5	55.5	13.1	88	calm	0	0	.....	3 c	0	.....	.....	0	0	clear.....	T. Cleary.
Fort Stevenson, Dakota	28.12	714.2	30.02	762.5	29	— 1.7	100	se.	3	1.3	.....	2 k	0	.....	.....	0	0	clear.....	W. Burrows.
Fort Verde, Arizona	.....	.....	.....	.....	49.2	9.6	40	s.	.....	.....	1	.....	10 s	.....	.....	0	0	cloudy.....	D. Brooks.
Fort Washakie, Wyoming	24.48	621.8	.....	.....	31.2	— 0.4	74	nw.	3	1.3	.....	4 k	0	w.	.....	0	0	fair.....	T. M. Ambler.
Fredericksburg, Texas	28.37	720.6	30.09	764.3	62	16.7	93	se.	2	0.9	.....	.....	10 s	.....	.....	0	0	cloudy.....	H. S. Miles.
Galveston, Texas	30.11	764.8	30.15	765.8	70	21.1	85	se.	12	5.4	.....	3 c	hz.	.....	.....	0	0	clear.....	E. O'C. MacInernev.
Grand Haven, Michigan	29.30	744.2	29.99	761.7	52.0	11.1	72	w.	12	5.4	.....	0	0	.....	.....	0.03	0.8	clear.....	W. A. Reid.
Hatteras, North Carolina	30.33	770.4	30.35	770.9	60	15.6	87	sw.	12	5.4	.....	4 k	5 s	n.	.....	0	0	cloudy	R. M. Crawford.
Helena, Montana	25.73	653.5	29.99	761.7	39	3.9	65	sw.	4	1.8	.....	0	4 s	.....	.....	0	0	fair	N. C. Smith.
Henrietta, Texas	29.16	740.7	30.19	766.8	58.0	14.4	86	s.	6	2.7	.....	0	0	.....	.....	0	0	clear.....	J. W. Byram.
Huron, Dakota	28.62	726.9	30.08	764.0	40.7	4.8	62	e.	9	4.0	.....	0	1 s	.....	.....	0	0	clear.....	S. W. Glenn.
Indianapolis, Indiana	29.30	744.2	30.12	765.0	62	16.7	84	s.	8	3.6	.....	4 cs	6 ks;s	nw.	nw.	0.16	4.1	threatening	O. Schutze
Indianola, Texas	30.06	763.5	30.10	764.5	72.0	22.2	97	e.	20	8.9	.....	0	4 ks	.....	e.	0	0	fair.....	I. A. Reed.
Jacksboro, Texas	28.99	736.3	30.17	766.3	58	14.4	80	s.	3	1.3	.....	0	0	.....	.....	0	0	clear.....	J. P. Sherry.
Jacksonville, Florida	30.30	769.6	30.34	770.6	62	16.7	87	e.	2	0.9	.....	0	fg.	.....	.....	0	0	clear.....	J. W. Smith.
Keokuk, Iowa	29.34	745.2	30.01	762.2	64.5	18.1	68	sw.	8	3.6	.....	0	0	.....	.....	0	0	clear.....	F. Z. Gosewisch
Key West, Florida	30.11	764.8	30.13	765.3	71.0	21.7	82	ne.	16	7.2	.....	1 cs	2 k	.....	ne	0.27	6.9	clear.....	L. M. Melbourne.
Kittyhawk, North Carolina	30.32	770.1	30.34	770.6	58	14.4	80	sw.	15	6.7	.....	2 k	0	w.	.....	0	0	clear.....	E. A. Beals.
Knoxville, Tennessee	29.30	744.2	30.34	770.6	55.2	12.9	85	sw.	4	1.8	.....	0	fg.	.....	.....	0	0	clear.....	J. A. Cody.
La Crosse, Wisconsin	29.24	742.7	30.04	763.0	48	8.9	63	w	1	0.4	.....	0	0	.....	.....	0	0	clear.....	S. U. Emery.
La Mesilla, New Mexico	26.13	663.7	30.01	762.2	46.2	7.9	76	n.	1	0.4	.....	2 c	0	.....	.....	inap.	inap.	clear.....	N. D. Lane.
Leavenworth, Kansas	29.19	741.4	30.10	764.5	63	17.2	56	s.	9	4.0	.....	4 k	0	sw.	.....	inap.	inap.	fair.....	A. W. Browne.
Lewiston, Idaho	29.01	736.8	29.86	758.4	43	6.1	83	calm	0	0	.....	0	5 s	.....	.....	0	0	fair.....	W. Blake.
Little Rock, Arkansas	29.93	760.2	30.25	768.3	60	15.6	87	sw.	2	0.9	.....	0	0	.....	.....	0.03	0.8	clear.....	W. U. Simmons.
Los Angeles, California	29.71	754.6	30.11	764.8	53.2	11.8	86	nw.	1	0.4	.....	.....	10 s	.....	calm	0	0	cloudy.....	E. F. Kubel.
Louisville, Kentucky	29.58	751.3	30.15	765.8	63	17.2	73	s.	10	4.5	.....	.....	10 s	.....	.....	0	0	cloudy.....	H. C. Smyth.
Lynchburg, Virginia	29.53	750.0	30.24	768.1	58.5	14.7	78	s.	7	3.1	.....	0	0	.....	.....	0	0	clear.....	W. R. Bushby.
Madison, Wisconsin	29.01	736.8	30.05	763.3	53	11.7	80	calm	0	0	.....	0	fg.	.....	calm	0.12	3.0	clear.....	C. A. Shaw.
Marquette, Michigan	29.39	746.5	30.14	765.5	31	— 0.6	88	n.	12	5.4	.....	.....	10 n	.....	nw.	inap.	inap.	light snow..	J. Gilligan.
Mason, Texas	28.47	723.1	30.12	765.0	61.2	16.2	84	se.	4	1.8	.....	0	1 s	.....	calm	0	0	clear.....	P. M. Wilson.
Memphis, Tennessee	29.94	760.5	30.28	769.1	66	18.9	73	n.	8	3.6	.....	0	0	.....	.....	0.02	0.5	clear.....	D. T. Flannery.
Milwaukee, Wisconsin	29.24	742.7	30.01	762.2	56	13.3	80	nw.	5	2.2	.....	0	fg.	.....	.....	0.02	0.5	clear.....	W. Line.

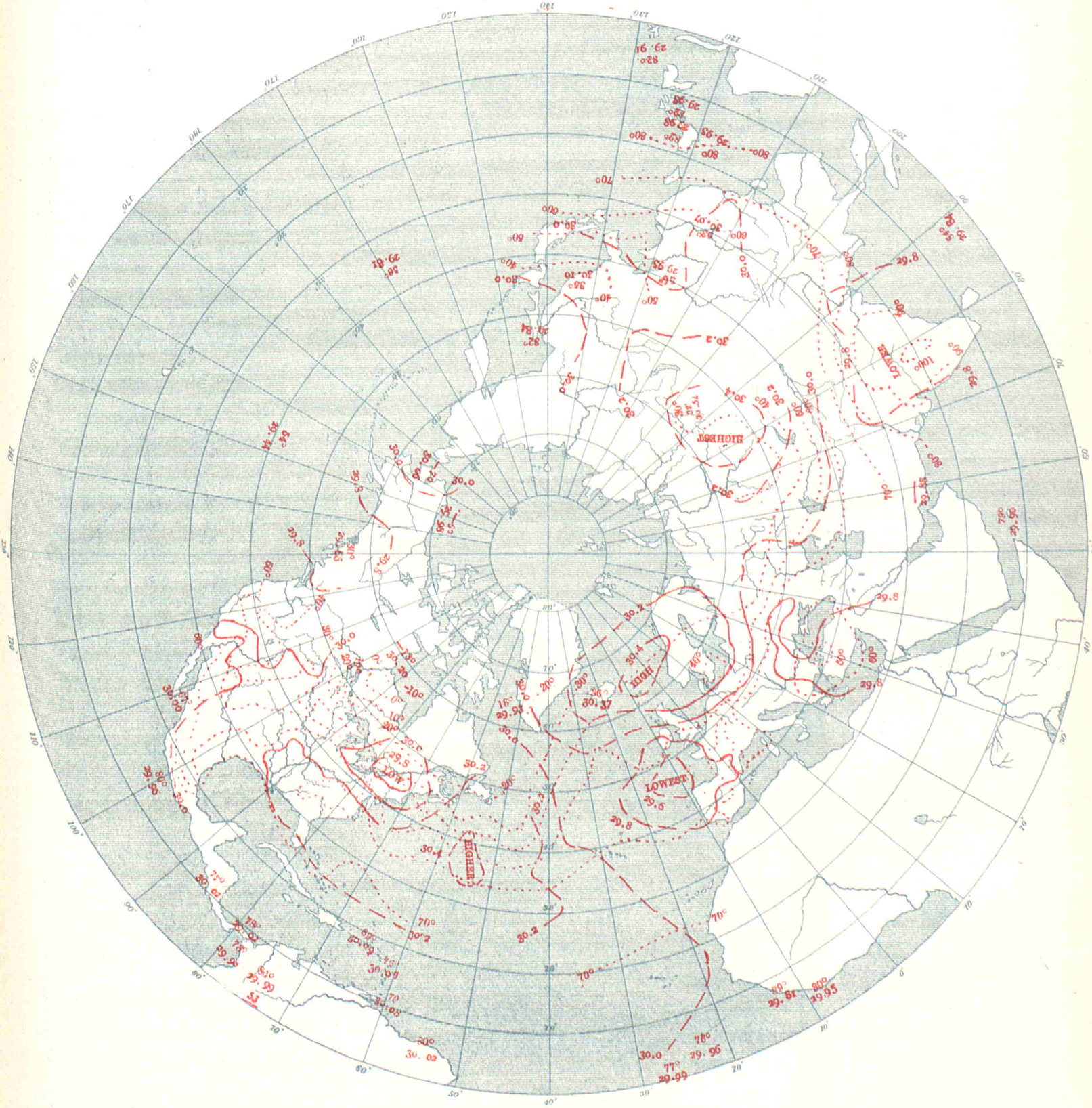
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–or	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper.	Lower.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Mobile, Alabama	30.26	768.6	30.30	769.6	61.5	16.4	83	ne.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. D. Paxton.
Montgomery, Alabama	30.11	764.8	30.34	770.6	58.2	14.6	93	calm	0	0	.....	1 cs	0	e.	.....	0	0	clear	J. B. McLaughlin.
Moorhead, Minnesota	29.06	738.1	30.09	764.3	25.1	— 3.8	88	n.	5	2.2	.....	0	0	.....	.....	0	0	clear	H. Bessant.
Morgantown, W. Virginia	29.11	739.4	30.15	765.8	64.0	17.8	75	sw.	10	4.5	.....	3 cs	4 s	w.	sw.	0	0	fair	G. C. Lewis.
Mt. Washington, N. H.	23.51	597.1	29.92	760.0	29.8	— 1.2	92	nw.	68	30.4	.....	5 cs	5 s; sk	nw.	nw.	0.38	9.7	cloudy	J. G. Linsley.
Nashville, Tennessee	29.72	754.9	30.26	768.6	65.0	18.3	68	sw.	5	2.2	.....	5 k	0	sw.	.....	0	0	fair	L. A. Jesunofsky.
New Haven, Connecticut	29.84	757.9	29.96	761.0	43	6.1	96	sw.	3	1.3	.....	.....	fg.	.....	.....	0.01	0.3	dense fog	J. H. Sherman.
New London, Connecticut	29.93	760.2	29.98	761.5	45	7.2	68	sw.	5	2.2	.....	7 k	0	sw.	.....	0	0	fair	J. G. Lynch.
New Orleans, Louisiana	30.18	766.6	30.24	768.1	65.4	18.6	91	e.	5	2.2	.....	0	hz.	.....	.....	0	0	clear	S. Dunne.
Newport, Rhode Island	29.92	760.0	29.97	761.2	44.3	6.8	88	sw.	15	6.7	.....	.....	10 s	.....	sw.	0	0	cloudy	W. McGillivray.
New River, N. Carolina	.....	.....	.....	.....	62	16.7	88	sw.	.....	.....	1	0	2 s	.....	.....	0	0	clear	C. C. Corbin.
New Shoreham, Rhode I'd.	29.94	760.5	29.97	761.2	46.0	7.8	83	sw.	28	12.5	.....	3 ck	hz.	sw.	.....	0	0	clear	W. Davis.
New York, New York	29.82	757.4	30.00	762.0	44	6.7	83	sw.	10	4.5	.....	4 cs	fg.	.....	.....	0.04	1.0	fair	E. B. Garriott.
Norfolk, Virginia	30.25	768.3	30.28	769.1	61	16.1	78	sw.	15	6.7	.....	0	hz.	.....	.....	0	0	clear	J. T. Elker.
North Platte, Nebraska	27.06	687.3	30.02	762.5	39.6	4.2	65	nw.	7	3.1	.....	0	1 s	.....	.....	0	0	clear	E. F. Brady.
Olympia, Washington T'y	29.86	758.4	29.90	759.4	48.0	8.9	93	s.	3	1.3	.....	.....	10 s	.....	sw.	0.31	7.9	cloudy	J. Dascomb.
Omaha, Nebraska	28.89	733.8	30.10	764.5	53.0	11.7	61	ne.	1	0.4	.....	0	0	.....	.....	0	0	clear	A. Pollak.
Oogtaamie, Pt. Barrow, Alas.	29.96	761.0	29.98	761.5	— 6.2	—21.2	89	wsw	7	3.1	.....	.....	10 s	.....	.....	0	0	cloudy	P. H. Ray.
Oswego, New York	29.45	748.0	29.79	756.7	51.0	10.6	86	w.	12	5.4	.....	.....	10 n	.....	w.	0.08	2.0	light rain	S. W. Beall.
Palestine, Texas	29.65	753.1	30.21	767.3	62.5	16.9	88	s.	8	3.6	.....	10 cs	0	.....	.....	0	0	cloudy	L. M. Pindell.
Pensacola, Florida	30.28	769.1	30.31	769.9	66.0	18.9	87	e.	3	1.3	.....	0	0	.....	.....	0	0	clear	M. McGauran.
Philadelphia, Pa	29.96	761.0	30.06	763.5	55	12.8	80	sw.	8	3.6	.....	5 cs	hz.	nw.	.....	0	0	fair	T. F. Townsend.
Pike's Peak, Colorado	17.86	453.6	30.14	765.5	19	— 7.2	80	sw.	9	4.0	.....	0	0	.....	.....	0	0	clear	L. M. Dey.
Ploche, Nevada	24.05	610.9	30.04	763.0	49	9.4	44	s.	6	2.7	.....	.....	10 ks	.....	s.	0	0	cloudy	C. N. Kitchel.
Pittsburg, Pennsylvania	29.24	742.7	30.07	763.8	63.8	17.7	58	s.	12	5.4	.....	9 k	0	sw.	.....	0	0	cloudy	J. H. Bryce.
Port Eads, Louisiana	30.23	767.8	30.24	768.1	68.1	20.1	92	e.	12	5.4	.....	0	2 k	.....	se.	0	0	clear	H. G. Christian.
Port Huron, Michigan	29.22	742.2	29.92	760.0	61.2	16.2	68	w.	19	8.5	.....	6 cs	0	w.	.....	0.07	1.8	fair	W. O. Bailey.
Portland, Maine	29.83	757 7	29.88	758.9	41.0	5.0	82	s.	6	2.7	.....	.....	10 s	.....	calm	0.03	0.8	cloudy	D. C. Murphy.
Portland, Oregon	29.86	758.4	29.93	760.2	46.0	7.8	93	s.	2	0.9	.....	6 c	0	.....	.....	0	0	fair	M. L. Hearne.
Portsmouth, N. Carolina	.....	.....	.....	.....	64	17.8	78	sw.	10	4.5	.....	6 k	hz.	sw.	calm	0	0	fair	F. P. Chaffee.
Prescott, Arizona	24.88	631.9	30.10	764.5	44	6.7	25	s.	3	1.3	.....	7 cs	1 s	s.	s.	0	0	cloudy	J. McN. Wright.
Provincetown, Mass	29.90	759.4	29.93	760.2	43	6.1	93	sw.	10	4.5	.....	.....	10 s	.....	.....	0.04	1.0	cloudy	P. T. Jenkins.
Punta Rassa, Florida	30.18	766.6	30.19	766.8	66.5	19.2	81	ne.	17	7.6	.....	0	1 ks	.....	ne.	0	0	clear	W. J. Evans.
Red Bluff, California	29.52	749.8	29.89	759.2	50.7	10.4	91	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.76	755.9	30.00	762.0	70	21.1	90	e.	5	2.2	.....	.....	10 s	.....	e.	0	0	cloudy	W. H. Taylor.
Rochester, New York	29.11	739 4	29.80	756.7	60	15.6	70	sw.	36	16.1	.....	.....	10 s	.....	w.	0.32	8.1	cloudy	A. T. Sherwood.
Roseburg, Oregon	29.39	746.5	29.95	760.7	44.2	6.8	93	calm	0	0	.....	1 c	0	nw.	.....	0	0	clear	J. J. Nanry.
Sacramento, California	29.83	757.7	29.91	759.7	47.9	8.8	86	s.	10	4.5	.....	0	2 s	.....	s.	0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.52	749.8	30.13	765.3	65.9	18.8	68	sw.	9	4.0	.....	5 c; k	0	w.	.....	0	0	fair	J. H. Webber.
St. Paul, Minnesota	29.19	741.4	30.08	764.0	42.0	5.6	74	nw.	1	0.4	.....	0	0	.....	.....	0	0	clear	P. F. Lyons.
St. Vincent, Minnesota	29.26	743.2	30.16	766.1	9	—12.8	87	nw.	4	1.8	.....	0	0	.....	.....	0	0	clear	G. Kingsbury.
Salt Lake City, Utah	25.57	649.5	29.94	760.5	50	10.0	48	calm	0	0	.....	6 k	0	sw.	.....	0	0	fair	J. Craig.
San Antonio, Texas	29.40	746.7	30.10	764.5	63.8	17.7	93	e.	6	2.7	.....	.....	10 ks	.....	se.	0.43	10.9	cloudy	E. Lane.
San Diego, California	29.94	760.5	30.01	762.2	53.3	11.8	82	n.	4	1.8	.....	5 k	5 s	.....	.....	0.01	0.3	cloudy	A. C. Dobbins.
Sandusky, Ohio	29.27	743.4	29.97	761.2	64.3	17.9	68	w.	20	8.9	.....	.....	10 s	.....	w.	0	0	cloudy	M. H. Perry.
Sandy Hook, New Jersey	29.96	761.0	30.00	762.0	49.0	9.4	93	s.	10	4.5	.....	3 ck	hz.	s.	calm	inap.	inap.	clear	B. A. Blundon.
San Francisco, California	29.89	759.2	29.96	761.0	50	10.0	89	w.	6	2.7	.....	.....	fg.	.....	sw.	0	0	dense fog	N. Gorom.
Santa Fé, New Mexico	23.30	591.8	30.06	763.5	46	7.8	47	ne.	4	1.8	.....	0	0	.....	.....	0	0	clear	H. U. Jones.
Savannah, Georgia	30.29	769.4	30.38	771.6	63	17.2	84	calm	0	0	.....	0	0	.....	.....	0	0	clear	H. W. Ford.
Shreveport, Louisiana	29.99	761.7	30.23	767.8	63	17.2	84	s.	1	0.4	.....	0	hz.	.....	.....	0	0	clear	E. N. Meekins.
Silver City, New Mexico	24.30	617.2	29.98	761.5	43	6.1	37	sw.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. B. Wallace.
Sitka, Alaska	29.60	751.8	29.66	753.4	30	— 1.1	78	ne.	4	1.8	.....	2 cs	0	calm	.....	0.06	1.5	clear	J. J. McLean.
Smithville, North Carolina	30.33	770.4	30.37	771.4	61	16.1	93	sw.	6	2.7	.....	0	0	.....	.....	0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	27.83	706.9	29.89	759.2	41	5.0	76	e.	10	4.5	.....	7 cs	0	.....	.....	0	0	fair	D. Moore.
Springfield, Illinois	29.38	746.2	30.08	764.0	65	18.3	68	sw.	12	5.4	.....	0	6 s; ks	.....	w.	inap.	inap.	fair	T. B. Jennings.
Springfield, Massachusetts	29.78	756.4	29.91	759.7	42.9	6.1	100	s.	8	3.6	.....	.....	10 s; fg	.....	.....	0.02	0.5	cloudy	T. S. Outram.
Springfield, Mo	28.73	720.7	30.25	768.3	60.5	15.8	77	s.	12	5.4	.....	0	1 s	.....	.....	0	0	clear	J. B. Marbury.
Stockton, Texas	27.05	687.1	30.08	764.0	52.5	11.4	100	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. O'Dowd.
Thatcher's Island, Mass	29.85	758.2	29.90	759.4	40.3	4.6	94	w.	10	4.5	.....	.....	fg.	.....	.....	0.02	0.5	dense fog	G. Liebmann.
Toledo, Ohio	29.25	742.9	29.96	761.0	60.2	15.7	81	w.	12	5.4	.....	.....	10 s	.....	w.	0.02	0.5	cloudy	A. Buell.
Tucson, Arizona	27.56	700.0	29.95	760.7	55	12.8	57	e.	3	1.3	.....	4 cs	0	.....	.....	0	0	fair	J. L. Whiteside.
Umatilla, Oregon	29.53	750.0	29.90	759.4	43.0	6.1	74	se.	7	3.1	.....	9 cs	0	sw.	.....	0	0	cloudy	J. Daly.
Uvalde, Texas	29.12	739.6	30.09	764.3	66	18.9	93	se.	4	1.8	.....	.....	10 ks	.....	se.	0	0	cloudy	E. C. Imlay.
Vicksburg, Mississippi	30.01	762.2	30.27	768.8	60	15.6	87	se.	7	3.1	.....	hz.	hz.	.....	.....	0	0	light haze	T. J. Kenan.
Visalia, California	29.56	750.8	29.93	760.2	55.5	13.1	79	nw.	4	1.8	.....	.....	10 ks	.....	nw.	0	0	cloudy	J. T. Cochran.
Washington, D. C.	30.04	763.0	30.16	766.1	59	15.0	75	se.	4	1.8	.....	1 c	hz	.....	.....	0	0	clear	B. M. Purssell.
West Las Animas, Colorado	26.04	661.4	30.00	762.0	42	5.6	62	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. Grover.
Wickenburg, Arizona	.....	.....	.....	.....	50.3	10.2	25	calm	.....	.....	0	.....	10 ks	.....	sw.	0	0	cloudy	H. A. Kremp.
Williamsport, Pa	29.37	746.0	29.98	761.5	44	6.7	93	se.	1	0.4	.....	7 c	3 ks	calm	w.	0	0	cloudy	B. F. Hough.
Wilmington, N. Carolina	30.31	769.9	30.37	771.4	61	16.1	84	sw.	1	0.4	.....	hz.	0	.....	.....	0	0	clear	E. W. McDann.
Winnemucca, Nevada	28.52	648.2	29.92	760.0	38	3.3	82	sw.	6	2.7	.....	5 cs	0	sw.	.....	0	0	fair	J. R. Williams.
Yankton, Dakota	28.70	729.0	30.04	763.0	39	3.9	73	e.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. H. Atfield.
Yuma, Arizona	29.71	754.6	29.86	758.4	63.3	17.4	51	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.02	559.3	.....	.....	53.0	11.7	82	calm	0	0	.....	.....	10 n	.....	.....	0	0	cloudy	Joaquin Gomez.
Bridgetown, Barbados, W.I.	30.07	763.8	30.08	764.0	79	26.1	78	e.	.....	.....	.....	5 k	5 ks	e.	e.	0	0	fair	J. A. Racker.
Buenaventura, U. S. C.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. I. Plume.
Guadeloupe, W. I.	29.95	760.7	29.97	761.2	76	24.4	87	e.	.....	.....	.....	0	2 ks	.....	.....	0.157	4.0	clear	B. Bigar.
Havana, Cuba, W. I.	30.06	763.5	30.11	764.8	73	22.8	82	e.	1.2	0.5	.....	2 cs	5 ks	calm	e.	0.55	14.0	fair	A. Van Caneghem.
Kingston, Jamaica, W. I.	30.02	762.5	30.03	762 7	75.0	23.9	74	calm	0	0	.....	0	0	.....	.....	0	0	.....	Robert Johnston.
Navassa	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	F. M. Everett.
Paramaribo, S. A.	30.02	762.5	30.02	762.5	80	26.7	82	se.	.....	.....	2	5 k	6 ps	e.	.....	0.630	16.0	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.53	750.0	29.99	761.7	81	27.2	72	ne.	.....	.....	1	.....	9 k	.....	n.	0	0	cloudy	Miss Flora A. Nichols.
Rivas	.....	.....	.....	.....	.....	.....	92	ne.	.....	.....	2	0	3 k	.....	ne.	0	0	fair	Earl Flint.
Santiago de Cuba, W. I.	29.99	761.7	30.02	762.5	74	23.3	72	calm	0	0	.....	3 cs	0	.....	.....	0.40	10.2	fair	Robert Mason.
York Factory, B. A.	30.14	765.5	30.20	767.1	—13.0	—25.0	74	e.	10	4.5	.....	2 c	2 s	ne.	e.	0	0	fair	W. Wood.

STATIONS AND VESSELS.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
British Naval.																		
H. M. S. Agincourt, N. 36° 30′, W. 2° 04′	29.91	759.7	60	15.6	94	sw.			2		2	wsw.						d. clouds.
H. M. S. Alert, S. 6° 09′ E. 53° 10′	29.87	758.7	78.5	25.8	90	nw.			3		10							raining.
H. M. S. Alexandra, N. 40° 40′, E. 14° 17′	30.03	762.7	61	16.1	77	wsw.			3		4	wsw.						d. clouds.
H. M. S. Bacchante, Jaffa Roads, Egypt	29.70	754.4	61	16.1	82	sw.			5		6	sw.				3	sw.	squally.
H. M. S. Cleopatra, N. 11° 40′ E. 53° 10′	29.90	759.4	78.5	25.8	86	ese.			2		3	e.				1	e.	d. clouds.
H. M. S. Comus, N. 5° 58′, E. 128° 54′	29.91	759.7	82	27.8	95	ene.			2		1	ne.				3	ne.	blue sky.
H. M. S. Daring, N. 17° 00′ E. 118° 55′	29.95	760.7	80	26.7		nw.			1		0							blue sky.
H. M. S. Diamond, S 36° 12′, E. 120° 03′	30.29	769.4	64	17.8	94	ene.			5–6		3	n.				1	ene.	d. clouds.
H. M. S. Dido, N. 17° 00′, W. 61° 45′	30.08	764.0	77	25.0		e.			1		5	ne.						d. clouds.
H. M. S. Druid, N. 18° 11′, W. 76° 27′	30.30	769.6	73.5	23.1	90	se.			1		2	e.						d. clouds.
H. M. S. Dryad, N. 25° 12′, E. 57° 14′	29.88	758.9				calm			0		1	w.						blue sky.
H. M. S. Eclipse, S. 15° 43′, E. 46° 20′			85	29.4	100	ssw.			1–2		2							d. clouds.
H. M. S. Espiegle, S. 32° 25′, E. 114° 45′	30.05	763.3	72	22.2	90	sse.			2–3		5	wnw.				2	sse.	d. clouds.
H. M. S. Fawn, N. 15° 22′, E. 42° 10′						s.			4									
H. M. S. Gannet, S. 33° 01′, W. 71° 37′	29.98	761.5	59	15.0	94	se.			1		10							drizzling.
H. M. S. Inconstant, S. 26° 00′ E. 53° 00′	30.06	763.5	74	23.3	95	ene.			3		2	ese.				2	ese.	d. clouds.
H. M. S. Iris, N. 35° 04′, E. 18° 38′	29.92	760.0	64	17.8	73	wnw.			5		7	wnw.				6	wnw.	d. clouds.
H. M. S. Iron Duke, N. 22° 16′, E. 114° 10′	29.94	760.5	71	21.7	90	calm			0		6	e.						d. clouds.
H. M. S. Lark. S. 11° 23′, E. 162° 27′	29.81	757.2	81.3	27.4		nne.			6		10					5	n.	squally.
H. M. S. Liffey, Coquimbo, Chili	29.92	760.0	60	15.6		ne.			1		8							d. clouds.
H. M. S. Magpie, N. 32° 44′, E. 129° 51′	29.87	758.7	63.5	17.5	96	sw.			1		10							raining.
H. M. S. Malabar, Bombay, India	29.76	755.9	84	28.9	96	sw.			2		4	sw.						d. clouds.
H. M. S. Nelson, Sydney, N. S. Wales	30.00	762.0	71	21.7	80	calm			0		2							d. clouds.
H. M. S. Northampton, Bermuda, W. I.	30.37	771.4	64	17.8	67	nne.			2		2	ene.						d. clouds.
H. M. S. Rambler, St. Paul de Loando, Benguela	29.84	757.9	80	26.7	100	wnw.			1		7	calm						d clouds.
H. M. S. Rocket, Esquimalt, Vancouver Island, B. C.	29.82	757.4	47	8.3		wsw.			1		10							raining.
H. M. S. Serapis, N. 26° 20′ E. 34° 35′	29.78	756.4	76	24.4	90	n.			3		4	n.				2	nw.	d. clouds.
H. M. S. Tamar, N. 37° 04′, E. 4° 13′	29.95	760.7	65.5	18.6	64	ene.			1		5					1	ene.	d. clouds.
H. M. S. Tenedos, N. 18° 37′ W. 74° 50′	30.02	762.5	77.5	25.3	84	e.			1		7					2	ne.	d. clouds.
H. M. S. Thalia, S. 36° 27′, E. 1° 20′	30.39	771.9	63	17.2		ssw.			3		4					4	wsw.	d. clouds.
H. M. S. Triumph, Valparaiso, Chili	29.98	761.5	59	15.0	100	calm			0		2	calm						misty.
Portuguese Naval.																		
Rio Lima, Porto Praya, Cape Verd Islands	30.04	763.0	75.6	24.2	90	ne.			2		0					1		blue sky.
Tamega, Macao, China	29.98	761.4	73.0	22.8	89	se.			1		9							overcast.
United States Naval.																		
Navy Yard, Pensacola, Fla	30.26	768.6	70	21.1	90	e.	6	2.7			0							clear.
Naval Hospital, Portsmouth, N. H	29.91	759.7	39	3.9	73	calm	0	0			10			0	0			cloudy.
Naval Hospital, Yokohama, Japan	29.94	760.5	53.5	11.9	77	e.			3		10		w.	0	0			cloudy.
Adams, N. 5° 09′, W. 80° 11′	29.73	755.1	74	23.3	90	nne.			2		2			0	0	sm'h		clear.
Alaska, Mollendo, Peru	29.89	759.2	66	18.9	84	calm			0		2			0	0	long		fair.
Alert, N. 30° 53′, E. 127° 45′*	29.81	757.2	69	20.6	95	ssw.			4		10		calm			mod.	ssw.	foggy.
Alliance, Aspinwall, Panama	29.92	760.0	78	25.6	82	nnw.			2		5		n.	0	0	sm'h		fair.
Ashuelot, Nagasaki, Japan	29.91	759.7	65	18.3	94	se.			1		10		calm					rainy.
Brooklyn, Montevideo, Uruguay	30.16	766.1	61	16.1	61	sw.	11	4.9			5		s;w.	0.02	0.5	mod.	sw.	fair.
Colorado, New York, N. Y.	29.99	761.7	49	9.4	85	sw.	15	6.7			0			0	0			clear.
Enterprise, Curacoa, W. I*	29.99	761.7	76	24.4	91	ese.			2		8							fair.
Essex, N. 5° 13′, W. 9° 06′	29.95	760.7	80	26.7	87	ne.			1		10					long	nw.	overcast.
Franklin, Norfolk, Va	30.30	769.6	60	15.6	50	ssw.	18	8.0			2		ssw.	0	0			fair.
Galena, Malta, Mediterranean	30.00	762.0	63	17.2	83	w.			1		2					sm'h		fair.
Independence, Mare Island, Cal	29.84	757.9	51	10.6	93	w.			2		10		w.	0	0			threatening
Kearsage, N. 17° 45′, W. 65° 30′	30.07	763.8	78	25.6	78	ne.			4		2		ne.			mod.	e.	clear.
Lackawanna, Callao, Peru*	29.88	758.9	65	18.3	100	s.			1		8		se.					cloudy.
Lancaster, N. 41° 43′, E. 11° 37′	29.91	759.7	62	16.7	83	wnw.			3		0			0	0	sm'h	nw.	clear.
Marion, S. 33° 54′, E. 18° 24′	29.90	759.4	69	20.6	85	se.			5		10					sm'h		cloudy.
Michigan, Erie, Pa	29.86	758.4	60	15.6	94	sw.			4		10							cloudy.
Minnesota, Newport, R. I	29.98	761.5	46	7.8	84	sw.					10		e.					hazy.
Monocacy, Kobe Japan	30.00	762.0	57	13.9	87	nne.	5	2.2	1		10		sw.					cloudy.
New Hampshire, Newport, R. I	29.92	760.0	45	7.2	100	wsw.			3		5		calm			sm'h		fair.
Nipsic, Barcelona Spain	29.88	758.9	63	17.2	72	e.			2		2					sm'h		d. clouds.
Onward. Callao, Peru†	30.09	764.3	64	17.8	94	sse.			1		10		ne.			long	w.	cloudy.
Palos, Kobe, Japan	30.01	762.2	54	12.2	93	e.			1		10		e.					overcast.
Passaic, Washington, D. C	30.19	766.8	58	14.4	76	sw.			1		2		sw.					clear.
Pensacola, Callao, Peru	29.99	761.7	65	18.3	89	se.	3	1.3			10		s.	0	0	sm'h		cloudy.
Powhatan, La Guayra, Venezula	30.04	763.0	75	23.9	86	n.			2		8		ne.			mod.	ne.	misty.
Portsmouth, Hampton Roads, Va.	30.33	770.4	56	13.3	100	ssw.			5		2					sm'h		hazy.
Quinnebaug, Naples, Italy	29.90	759.4	64	17.8	62	ssw.			3		2		ssw.	0	0	sm'h		clear.
Ranger, Acapulco, Mexico*	29.86	758.4	80	26.7	87	wsw.			0–1		2		calm	0	0	sm'h		clear.
Richmond, Kobe, Japan*	29.93	760.2	60	15.6	76	calm			0		10		calm	2	51.			cloudy.
Shenandoah, N. 12° 52′, W. 70° 49′*	30.05	763.3	78	25.6	82	ene.			4		2		n;e.			sm'h		fair.
St. Louis, League Island, Pa	30.32	770.1	55	12.8	74	sw.	10	4.5			2		ssw.	0	0			clear.
Swatara, Kobe, Japan*	29.82	757.4	59	15.0	70	ene.			1		10		calm			sm'h		misty.
Tennessee, N. 27° 09′, W. 79° 43′	30.22	767.6	74	23.3	95	ene.	35	15.6			8		ene.	0.1	3.	hv'y	ne.	cloudy.
Vandalia, Port Royal, S. C†	30.46	773.7	66	18.9	89	calm			0		2		calm					hazy.
Wabash, Boston, Mass	29.93	760.2	46	7.8	84	sw.	8	3.6			10		sw.	0	0			cloudy.
Wachusetts, Sitka, Alaska	30.60	777.2	30	— 1.1		calm			0		8		calm					cloudy.
Wyoming, Port Royal, S. C	30.35	770.9	66	18.9	89	calm	0	0			0			0	0			clear.
Yantic, N. 24° 06′, W. 84° 42′*	30.07	763.8	74	23.3	81	ene.			6		10		ene.			r'gh	ene.	rainy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.			Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Amount and kind.		Direction.						
								Force.	Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																	
S. S. Circassian, N. 49° 55′ W. 29° 00′	30.12	765.0	52	11.1	59	ne.			4		4	ne.	0	0	2	ne.	d clouds.
S. S. Nova Scotian, N. 42° 55′ W. 59° 45′	30.35	770.9	30	—1.1		var.			2		10	sse.			sm'h		cloudy.
S. S. Polynesian, N. 43° 18′, W. 59° 07′*	30.16	766.1	29	—1.7		sse.			4		10	ssw.	0	0			cloudy.
S. S. Scandinavian, N. 43° 12′, W. 46° 58′*	30.33	770.4	30	—1.1		nw.			5		10	nw.	0	0	mod.	nw.	overcast.
S. S. Waldensian, N. 43° 22′, W. 44° 40′*	30.32	770.1	36	2.2		nnw.			5		1?	nnw.	0	0	short	nnw.	cloudy ?
AMERICAN STEAMSHIP COMPANY.																	
S. S. British Crown, N. 48° 36′, W. 26° 51′†	30.02	762.5	51	10.6		nw.			3		1	nw.	0	0	sm'h		clear.
S. S. Illinois, N. 39° 31′, W. 63° 58′	30.26	768.6	54	12.2	93	s.			6		10	s.			sm'h	sw.	overcast.
S. S. Indiana, Liverpool, Eng†	30.00	762.0	46	7.8	76	e.			5		5?	ese.	light	light			clear.?
S. S. Ohio, Philadelphia, Penn†	30.00	762.0	53	11.7	93	wsw.			2		9	sw.					fine.
S. S. Pennsylvania, N. 46° 10′, W. 31° 23′†	29.95	760.7	50	10.0	59	e.			2		3	e.			sm'h	e.	showery.
ANCHOR LINE.																	
S. S. Assyria, N. 42° 19′, W. 58° 15′*†	30.48	774.2	38	3.3		s.			3		10	w.	0	0	sm'h		overcast.
S. S. Galatia, N. 48° 19′ W. 19° 41′†	29.75	755.6				nne.			6		8	nne.	4 h'r	4 h'r	mod.	n.	showery.
ATLAS LINE.																	
S. S. Atlas, N. 20° 35′, W. 73° 31′†	30.07	763.8	77	25.0	77	ene.			4		5	ene.	0	0	mod.	ene.	fair.
S. S. Alvo, N. 28° 55′, W. 74° 12′	30.36	771.1				e.			4		9	e.	0	0	mod.	e.	cloudy.
S. S. Arden, N. 10° 40′, W. 71° 38′						ne.			1						sm'h		fine.
S. S. Athos, Ponce, Porto Rico, W. I.	29.69	754.1				e.			1				0	0			clear.?
BRITISH METEOROLOGICAL OFFICE.																	
Bk. Arran, N. 2° 28′, W. 24° 30′	29.96	761.0	75.5	24.2	90	wnw.			3		10						heavy rain.
Baroda, S. 6° 51′, E. 82° 48′	29.87	758.7	86.4	30.2	82	ene.			2		2						d. clouds.
British Merchant, N 3° 09′ E 88° 24′	29.84	757.9	84	28.9	86	sw.			1		7						thund'r st'm.
Bk. Caldew, N. 42° 10′, W. 32° 21′	29.96	761.0	57	13.9		nw.			5		10						drizzling.
S. S. Cipero, N. 47° 30′ W. 10° 41′	29.44	747.8	58.4	14.7	58	wsw.			1		3						d. clouds.
Bk. Commewyne, N. 44° 08′, W. 35° 36′	29.87	758.7	56.1	13.4	81	wnw.			4		10						overcast.
Bg. Hermine, N. 1° 21′, W. 26° 11′	29.99	761.7	77.4	25.2	80	se.			1		7						gloomy.
S. S. Rosetta N. 36° 00′, E 14° 25′	29.97	761.2	61	16.1	71	nw.			3		0						blue sky.
CROMWELL LINE.																	
S. S. Hudson, N. 38° 05′, W. 71° 10′†	30.18	766.6	60	15.6		ssw.			6		0		0	0	mod.	s.	hazy.
CUNARD LINE.																	
S. S. Scythia, N. 51° 49′, W. 7° 59′			55	12.8	93	e.			5		8	se.	5 h'r	5 h'r	mod.	e.	cloudy.
GENERAL TRANS-ATLANTIC COMPANY.																	
S. S. France, N. 40° 15′, W. 50° 25′ †	30.34	770.7	33.8	1.0		nnw.			4			n.	0	0	mod.	nw.	clear.
HAMBURG AMERICAN PACKET COMPANY.																	
S. S. Bohemia, N. 47° 43′, W. 23° 21′.*†	29.73	755.1				n.			5		3	n.	0	0	sm'h	nne.	fair.
S. S. Lessing, N. 40° 41′, W. 47° 43′	30.24	768.0	40	4.4		nnw.			6		10		0	0	long	nnw.	cloudy.
S. S. Silesia, Elbe River, Germany*†	30.13	765.3	43.0	6.1		e.			6–7		10	e.	0	0			cloudy.
S. S. Wieland, N. 41° 00′, W. 56° 22′	30.52	775.2	43	6.1		calm			0		5	ene.	0	0	3	nw.	fair.
MALLORY LINE.																	
S. S. Colorado, N. 38° 05′, W. 74° 24′†	30.15	765.8	50	10.0		sw.			6		1	sw.	0	0	high	ssw.	clear.
MERCHANTS' EXPRESS LINE.																	
S. S. Hermod, N. 50° 08′, W. 16° 20′.†*	29.22	742.2	50.0	10.0		n.			2		6	nnw.	6 h'r	6 h'r	mod.	nnw.	showery.
NATIONAL LINE.																	
S. S. England, N. 49° 24′, W. 24° 23′	30.00	762.0				nne.			5		2?	nne.	0	0	mod.	ne.	cloudy.?
S. S. Erin, N. 47° 17′, W. 27° 02′	29.82	757.4	59	15.0		ne.			3		1	ne.	0	0	long	ne.	clear.
S. S. Holland, N. 40° 29′, W. 70° 36′	30.04	763.0	46	7.8		sw.			6		2	sw.	0	0	mod.	sw.	fair.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																	
S. S. Niagara, N. 38° 07′, W. 74° 24′†	30.17	766.3	53	11.7		sw.			6		hz		0	0	small	s.	hazy.
S. S. Santiago, N. 21° 00′, W. 74° 14′†	30.22	767.6	75	23.9		ne.			7		10	ene.	2 h'r	2 h'r	chop	ene.	overcast.
NEW YORK HAVANA AND MEXICAN MAIL.																	
S. S. City of Alexandria, Vera Cruz, Mexico*†	30.05	763.3	79	26.1		wsw.			3		4	nw.	0	0			clear.
NEW YORK HERALD WEATHER SERVICE.																	
S. S. City of Washington, N. 19° 48′, W. 91° 00′*†	30.10	764.5	76	24.4		ne.			3							w.	clear.
S. S. Lepanto, N. 47° 27′, W. 28° 30′*	29.94	760.5	48	8.9		nne.			3							ne.	fine.
S. S. New York, N. 24° 45′, W. 80° 25′*†	30.10	764.5	75	23.9		ene.			6							ene.	rainy.
S. S. W. A. Scholten, N. 41° 27′ W. 57° 02′	30.20	767.1	40.4	4.7		ssw.			4						sm'h		
NORTH GERMAN LLOYD.																	
S. S. Hohenzollern, S. 13° 54′, W. 36° 09′*	29.96	761.0	72.5	22.5		ene.			3		5?	e.	0	0	sm'h	e.	clear?
S. S. Kronprinz F. Wilhelm, N. 47° 50′, W. 33° 50′	29.84	757.9	50.9	10.5		sse.			4–5		10		8 h'r	8 h'r	3–4	sw.	covered.
S. S. Main, N. 46° 24′, W. 35° 34′	29.79	756.7	53.6	12.0		se.			3–4		10	n.	0	0	sm'h	se.	covered.
S. S. Mosel, N. 49° 07′, W. 19° 10′	29.60	751.8	51	10.6		n.			6		4	nne.	4 h'r	4 h'r	long	nne.	clear.
S. S. Neckar, N. 40° 28′ W. 73° 30′	29.96	761.0	45.5	7.5		ssw.			4		5	wsw.	2 h'r	2 h'r	sm'h	sw.	fine.
S. S. Ohio, N. 36° 24′, W. 43° 33′	30.19	766.8				nne.			6		6	n.	½ h'r	½ h'r	r'gh	nne.	fair.
S. S. Rhein, N. 49° 48′, W. 6° 41′	29.54	750.3				se.			6		7	se.	light	light	r'gh	se.	cloudy.
S. S. Salier, N. 51° 23′, E 1° 51′	29.90	759.4	46.4	8.0		e.			6		8	e.	4 h'r	4 h'r	r'gh	e.	hazy.
S. S. Strassburg, N. 49° 49′, W 10° 15′	29.46	748.3	53.0	11.7	77	se.			4		5	se.	1 h'r	1 h'r	mod.	se.	fair.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																	
S. S. Belgic, N. 43° 07′, W. 154° 35′†	29.44	747.8	54	12.2	87	s.			7		10		rain	rain	high	s.	overcast.
S. S. Oceanic, N. 35° 03′, E. 168° 49′*	29.81	757.2	56	13.3	94	n.			7		8	n.			3	w.	cloudy.
OCEAN STEAMSHIP COMPANY.																	
S. S. City of Augusta, New York. N. Y†	29.99	761.7				sw.			1		8	sw.	0	0			smoky.
S. S. Seminole, N. 37° 40′, W. 74° 10′†	30.22	767.6	66	18.9	59	ssw.			5		hz		0	0	sm'h	sw.	hazy.
OREGON IMPROVEMENT COMPANY.																	
S. S. Mississippi, N. 46° 38′, W. 124° 44′†	29.94	760.5	47	8.3	85	n.			2		10	nnw.			mod.	nnw.	rain & fog.
OREGON RAILWAY AND NAVIGATION COMPANY.																	
S. S. City of Chester, Portland, Oregon*†	29.94	760.5	51	10.6	86	calm			0		0						clear.
S. S. Columbia, N. 45° 36′, W. 124° 09′†	29.91	759.7	50	10.0	86	sse.			1		10				mod.	wsw.	cloudy.
S. S. Oregon, San Francisco, Cal.†	29.95	760.7	50	10.0	86	calm			0								light rain.
PACIFIC COAST STEAMSHIP COMPANY.																	
S. S. Ancon, San Francisco, Cal.†	29.92	760.0	50	10.0	93	ssw.			2		10	w.					cloudy.
S. S. Idaho, N. 46° 50′, W. 124° 48′†	30.06	763.5	40	4.4	64	nw.			1		0				light	sw.	clear.
S. S. State of California, San Francisco, Cal†	29.94	760.5	50	10.0	93	calm			0		10						foggy.
S. S. Victoria, N. 49° 10′ W. 123° 56′†	29.86	758.5	44	6.7	100	w.			3		8		12 h'r	12 h'r	sm'h		misty.
PACIFIC MAIL STEAMSHIP COMPANY.																	
S. S. Australia, Sydney, N. S. W.	30.00	762.0	71	21.7	80	calm			0		8	se.					rainy.
S. S. City of New York, S. 29° 55′, W. 179° —′†	29.83	757.7	74	23.3	86	s.			6		10	s.	h'vy	h'vy	h'vy	se.	cloudy.
S. S. City of Pekin, Panama, Panamat†	29.98	761.5	78	25.6	82	nw.			2		0				sm'h		clear.
S. S. City of Sydney, S. 13° 48′, W. 170° 18′†	29.91	759.7	80	26.7	91	nne.			2		8	nne.	0	0	long	nw.	cloudy.
S. S. Clyde, N. 11° 49′, W. 86° 58′ †	30.02	762.5	77	25.0	86	ene.			3		2	ne.	0	0	light	sse.	clear.
S. S. Colon, N. 33° 48′, W. 74° 02′†	30.38	771.6	66	18.9		s.			3		0		0	0	sm'h	s.	clear.
QUEBEC S. S. COMPANY.																	
S. S. Muriel, N. 22° 36′, W. 64° 17′	30.17	766.3	73	22.8		e.			4		2		0	0	mod.	se.	fair.
RED STAR LINE.																	
S. S. Belgenland, Antwerp, Belgium†	29.97	761.2	56	13.3	81	ese.			2		2	e.	0	0			clear.
S. S. Nederland, N. 50° 30′, W. 2° 40′*†	30.56	776.2	57	13.9		ese.			3		5	sse.	0	0	sm'h	e.	fair.
S. S. Rhynland, N. 48° 08′, W. 22° 25′	29.75	755.6	50	10.0	79	n.			3		4	nne.	0.05	1.3	long	nne.	fair.
S. S. Switzerland, N. 40° 11′ W. 63° 17′†	30.29	769.4				s.			4		10	ssw.	2 h'r	2 h'r	mod.	s.	cloudy.
S. S. Vaderland, N. 46° 21′, W. 70° 53′	29.96	761.0	44	6.7	92	sw.			5		hz		2 h'r	2 h'r	mod.	sw.	hazy.
S. S. Waesland, N. 42° 50′ W. 41° 17′	30.12	765.0	44	6.7		nw.			6		10	wnw.	6 h'r	6 h'r	var.	wsw.	clearing.
ROTTERDAM LINE.																	
S. S. Schiedam, N. 48° 56′, W. 28° 00′*	29.85	758.2	51.4	10.8	79	nnw.			4		2	nnw.	0	0	mod.	n.	clear.
THINGVALLA LINE.																	
S. S. Thingvalla, Copenhagen, Denmark†	30.25	768.3	46.4	8.0		e.			2		5	e.	1 h'r	1 h'r			clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
WARREN LINE.																		
S. S. Iowa, N. 42° 04′, W. 48° 11′*†	30.48	774.2	30	—1.1		nw.			6		9		nw.	1 h'r	1 h'r	sm'h	nw.	cloudy.
WHITE STAR LINE.																		
S. S. Brittannic, N. 40° 39′, W. 69° 32′†	30.02	762 5	42	5.6		sw.			5		8		sw.	2 h'r	2 h'r	mod.	sw.	d. clouds.
S. S. Celtic, N. 50° 51′, W. 15° 27′†	29.55	750.6	49	9.4		ne.			5		8		ne.	3 h'r	3 h'r	mod.	ne.	fair.
S. S. Germanic, N. 50° 00′, W. 24° —′†	29.85	758.2	51	10.6		nne.			3		4		nne.	0	0	mod	n.	fine.
WILSON LINE.																		
S. S. Otranto, N. 47° 22′, W. 29° 14′†	29.98	761.5	58	14.4		ne.			3		5		ne.	0	0	sm'h	ene.	fair.
S. S. Romano, Hull, Eng*†	29.84	757.9	45	7.2														
WINSOR LINE.																		
S. S. Catherine Whiting, Fire Island, N. Y.†	30.18	766.6				sw.			2		1		sw.			light	sw.	
S. S. Norman, N. 41° 15′, W 71° 10′	30.18	766.6				sw.			3		8		ssw.	2 h'r	2 h'r	h'vy	s.	cloudy.
MISCELLANEOUS.																		
Schr. Addie Fuller, Cedar Keys, Florida†	30.39	771.9	65	18.3	83	e.			3		0			0	0			clear.
Bk. Adelaide, Rio de Janeiro, Brazil*†	29.90	759.4	80	26.7		sw.							wsw.					
Schr. Ajax, N. 27° 25′, W. 94° 59′†	30.13	765.3				ese.			3		2		e.	0	0	mod.	e.	fair.
Bk. Alpha, N. 38° 00′, W. 71° 40′†	30.17	766.3	46	7.8		sw.			5		8		w.	0	0	mod.	s.	cloudy.
Bk Antioch, S. 27° 45′, W. 39° 53′*†	29.90	759.4	81	27.2		sse.			5		1		ne.	0	0	sm'h	ne.	clear.
Schr. Asa Eldridge, Charlotte Harbor, Florida†	30.26	768.6				ne.			4		5		e.	0	0			hazy.
Bk. Aureola, N. 33° 04′ W. 41° 57′*†	30.40	772.1	72	22.2		ssw.			3		2		ssw.	0	0	light	n.	clear.
Schr Annie M. Smull, S. 36° 00′. W. 3° 11′*†	30.30	769.6	62	16.7		s.							sse.	0	0	long	sw.	clear.
Bk. Bergenseren, N. 36° 18′, W. 19° 20′†	29.87	758.7				w.			3				wnw.	light	light	3	wnw.	squally.
Bk. Celestina, S. 7° 11′ W. 29° 40′*†	29.91	759.7				nne.			2		6		n; se.	light	light	sm'h	sse.	fine.
Bk. Champion, N. 38° 15′, W. 71° 27′†	30.03	762.7				wsw.			6		8		nw.	0	0	sm'h	nw.	
S. S. Compton, N. 25° 45′, W 79° 38′†	30.15	765.8				ne.			9		7		ne.	7 h'r	7 h'r	h'vy	ne.	cloudy.
Bk. E. L. Pettingill, N. 2° 29′ W. 114° 54′†	29.90	759.4				e.			2		2		ene.	0	0	sm'h	ne.	
S. Enoch Train, Off Scilly Islands, Eng*	29.49	749.0				s.			5		5		s.	shr's	shr's	long	nw.	clear.
S. Exporter, N. 34° 00′, W. 39° 50′*†	30.30	769.6				w.			4		1		w.	0	0	long	ne.	very fine.
S. Festina Lente, N. 55° 55′, W. 27° 06′*	30.00	762.0	51	10.6		ene.			4		0				0	sm'h		clear.
U.S. F.C.S. Fish Hawk, Washington, D. C.†	30.27	768.8	61	16.1	82	s.			3		2		calm	0	0			clear.
S. Grecian, S. 22° 34′, W. 35° 08′*†	30.05	763.3	77	25.0		sse.			2		0			0	0	sm'h		clear.
Bk. Freya, Annapolis, Md.			50	10.0		s.			4		0			0	0			misty.
Bk. Granville, S. 34° 50′, W. 4° 36′*†	30.44	773 2				sse.			1				s.	0	0	long	sw.	clear.
Bk. Hattie G. McFarland, N. 31° 10′, W. 81° 05′*†	30.40	772.1	73	22.8		e.			1		2		nw.	0	0	long	se.	clear.
Schr. Henry Denison, Port Antonio, Jamaica†.	30.02	762.5				ese.			2–3		2		ne.	0	0			fair.
S. Hedwig, N. 54° 26′, W. 24° 30′	29.93	760.3	52.5	11.4	83	ene.			5		4		ene.	1 h'r	1 h'r	3	ene.	fine.
Bg John Wesley, Sagua La Grande, Cuba, W. I.†	29.99	761.7	75	23.9		e.			2		10			10 h'r	10 h'r			raining.
Bk. Jona, Off New York, N. Y*†	30.10	764.5				sw.			4		5		w.	1 h'r	1 h'r			fair.
Bkt. Josephine, Aspinwall, Panama*†	30.06	763.5	81	27.2	70	nnw.			3		5		n.	0	0			fair.
Bk. Liberia, N. 34° 06′, W. 39° 12′*	30.20	767.1	66	18.9	78	sw.			4		2		nw.	0	0	long	n.	fine.
Lihht House Tender, Laurel, Key West, Florida†	30.09	764.3	70	21.1		ene.			6		3		ne.	4 h'r	4 h'r	hv'y	e.	clear.
S. S. Malabar, Cardiff, Eng*†	29.77	756.1				sw.			5		8		sw.					showery.
Bg. Medina, N. 27° 55′ W. 75 20′†	30.44	773.2				e.			5		8		var.			mod.	ene.	cloudy.
S. S. Nebo, S. 3° 05′, W. 34° 51′*†	29.83	757.7				ene.			1		5		ne.	0	0	sm'h		fair.
Bk. Peppina, N. 38° 31′, W. 10° 32′†	29.76	755.9	61	16.1	88	ssw.			5		10		n.			mod	sw.	cloudy.
Bk. Pilgrim, S. 44° 33′, E. 146° 47′*†	30.25	768.3				sw.			3		5		sw.	0	0	long	w.	fair.
Bg. Potomac, N. 17° 25′, W. 59° 02′*†	30.00	762.0				ene.			3				ene.			mod.	e.	clear.
S. Salisbury, N. 35° 02′, W. 53° 05′*	30.43	773.0	57.6	14.2	89	ne.			4		8		ne.	1 h'r	1 h'r	rg'h	nne.	cloudy.
Bkt, Spotless, N. 17° 15′, W. 33° 12′*†	30.00	762.0				e.							e.			hv'y	e.	fine.
S. S. Victoria J. Peed, Fortune Island, W. I.*†	30.04	763.0				ene.			5		10							
S. Wm. Woodbury. N. 55° 17′, W. 21° 17′*†	30.00	762.0	48	8.9		ne.			9				ne.			light	ne.	cloudy.

International Chart I. April 2, 1882. Isobars and Isotherms.



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON APRIL 3, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours	.....	.....	30.00	762.1	69.4	20.8	84	ne.	.....	.....	3	.....	0	.....	.....	0	0	clear	Moiroud.
Algiers	.....	.....	29.99	761.8	69.4	20.8	72	wnw.	.....	.....	5	.....	2	.....	.....	0	0	fair	Nicolas.
La Calle	.....	.....	29.94	760.4	65.8	18.8	81	nw.	.....	.....	3	.....	3	.....	.....	0.354	9.0	pretty fair	Foufrède.
Tunis	.....	.....	29.95	760.5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.08	764.0	63.0	17.2	57	nnw.	.....	.....	1	.....	2	.....	.....	0	0	fair	Dumas.
Tebessa	.....	.....	30.04	762.3	61.2	16.2	48	sw.	.....	.....	1	.....	1	.....	.....	0	0	very fair	Derché.
Geriville	.....	.....	.....	.....	61.9	16.6	23	nnw.	.....	.....	4	.....	2	.....	.....	0	0	fair	Lonchamp.
Laghouat	.....	.....	30.08	764.1	71.6	22.0	43	se.	.....	.....	1	.....	6	.....	.....	0	0	cloudy	Abraham.
Biskra	.....	.....	30.04	762.9	81.7	27.6	19	s.	.....	.....	2	.....	4	.....	.....	0	0	cloudy	Malau.
Australian.																			
Melbourne, Victoria	30.09	764.3	30.18	766.6	53.9	12.2	80	se.	10	4.5	.....	.....	6	.....	.....	0.25	6.4	dull	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.33	745.0	29.85	758.2	68.0	20.0	51	se.	.....	.....	2	.....	5	.....	.....	0.008	0.2	.....	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.30	744.3	30.08	764.0	49.6	9.8	62	e.	19.9	8.9	.....	.....	10	.....	.....	0.047	1.2	.....	Dr. Wierzbiski.
Eperies	29.08	738.6	29.95	760.8	55.0	12.8	55	n.	.....	.....	3	7 cs	0	.....	.....	0	0	.....	Julius Mikolik.
Gratz	28.63	727.3	29.86	758.5	59.4	15.2	66	e.	.....	.....	3	.....	3	.....	.....	0.142	3.6	.....	Andreas Rospini.
Hermannstadt	28.44	722.4	29.82	757.3	68.0	20.0	37	se.	.....	.....	2	.....	10	.....	.....	0	0	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.60	726.5	29.94	760.4	54.3	12.4	70	ene.	.....	.....	3	.....	9	.....	.....	0.110	2.8	gloomy	The Staff.
Lemberg	29.08	738.5	30.08	763.9	48.6	9.2	66	e.	.....	.....	2	.....	10	.....	.....	0	0	.....	Dr. T. Stanecki.
Pola	29.79	756.7	29.90	759.5	59.0	15.0	83	wnw.	.....	.....	2	.....	3	.....	.....	0	0	.....	I. R. Hydrographic Office.
Szathmar	29.41	747.0	29.87	758.6	66.0	18.9	44	se.	.....	.....	3	.....	3	.....	.....	0	0	.....	Joseph Midlinszky, S. J.
Szegedin	29.58	751.3	29.85	758.3	64.0	17.8	51	nw.	.....	.....	3	.....	6	.....	.....	0	0	.....	Karl Stancel.
Trieste	29.80	756.8	29.90	759.4	62.6	17.0	64	calm	.....	.....	0	.....	4	.....	.....	0	0	.....	Rieder.
Vienna	29.30	744.2	30.03	762.7	46.2	7.9	79	wnw.	.....	.....	1	.....	10	.....	.....	0.024	0.6	.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	30.12	765.0	30.22	767.6	41.9	5.5	69	ese.	19	8.5	.....	.....	9	.....	.....	0.035	0.9	squally	W. Boswell.
Armagh, Observatory	29.68	753.9	29.92	760.0	46.1	7.8	76	ese.	21	9.4	.....	.....	10	.....	.....	.....	.....	squally	S. Call.
Bidston, Liverpool Obs'y	.....	.....	29.92	760.0	49.7	9.8	74	e.	26	11.6	.....	.....	10	.....	.....	.....	.....	misty	John Hartnup.
Bolton, Sharples	29.42	747.3	29.95	760.7	47.5	8.6	81	ese.	24	10.7	.....	.....	7	.....	.....	.....	.....	d. clouds	Thomas Mackereth. [A.S.
Bradford, Yorkshire	29.64	752.8	30.04	763.0	44.3	6.8	86	se.	.....	.....	1	.....	10	.....	.....	0.01	0.3	overcast	J. McLandsborough, F. R
Bridgetown, Barbadoes	29.99	761.7	30.02	762.5	81.0	27.2	62	ne.	.....	.....	2	.....	2	.....	.....	.....	.....	d. clouds	Corpl. J. Surgenor, A. H.C.
Curdington	.....	.....	29.94	760 5	56.6	13.7	71	se.	.....	.....	2.0	.....	6	.....	.....	.....	.....	d. clouds	John McLaren.
Chatham, School M. E.	29.82	757.4	29.95	760.7	47.7	8.7	92	ne.	.....	.....	2	.....	10	.....	.....	.....	.....	misty	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	29.51	749.5	29.74	755.4	52.5	11.4	86	s.	.....	.....	3	.....	9	.....	.....	.....	.....	overcast	The Staff.
Fort Napier, Natal	27.64	702.0	29.86	758.4	75.0	23.9	69	e.	.....	.....	1	.....	5	.....	.....	.....	.....	overcast	Pvt. E. K. Annis, A. H.C.
Free Town, Sierra Leone	29.60	751.8	29.83	757.7	83.0	28.3	74	nw.	.....	.....	1	.....	3	.....	.....	.....	.....	d. clouds	Sergt. John Robinson.
Gibraltar, Mediterranean	30.00	762.0	30.05	763.3	65.9	18.8	75	sw.	.....	.....	3	.....	3	.....	.....	.....	.....	blue sky	Opl. O. Baldwin.
Glasgow, Observatory	29.88	758.9	30.09	764.3	42.3	5.7	89	e.	.....	.....	4	.....	10 k	.....	.....	.....	.....	gloomy	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.78	756.4	29.95	760.7	48.3	9.1	91	e.	.....	.....	4	.....	10	.....	.....	.....	.....	overcast	The Staff.
Guernsey	29.53	750.0	29.83	757 7	52.0	11.1	86	se.	.....	.....	1	.....	9	.....	.....	blank	blank	d. clouds	A. Collenette, F. M. S.
Kew, Observatory	29.91	759.7	29.94	760.5	50.6	10.3	81	e.	30	13.4	.....	.....	6	.....	.....	.....	.....	hazy	The Staff.
Leicester, Museum	29.71	754.6	29.97	761.2	52.8	11.6	69	ne.	.....	.....	2	.....	8	.....	.....	.....	.....	d. clouds	J. C. Smith.
Malta, Mediterranean	29.87	758.7	29.95	760.7	66.0	18.9	56	sw.	.....	.....	1	.....	0	.....	.....	.....	.....	blue sky	I. H. Whysall.
Nassau, Bahamas	30.14	765.5	30.18	766.6	68.5	20.3	94	se.	.....	.....	1	.....	10	.....	.....	.....	.....	raining	C. S. Duncombe.
Oscott, St. Mary's College	29.42	747.3	29.95	760.7	48.0	8.9	77	e.	.....	.....	3	.....	9	.....	.....	.....	.....	d. clouds	John Mac Email.
Oxford, Radcliffe Obs'y	29.70	754.4	29.93	760.2	51.2	10.7	78	e.	.....	.....	4	.....	8	.....	.....	.....	.....	d. clouds	The Staff.
Plymouth	29.69	754.1	29.76	755.9	52.2	11.2	83	se.	.....	.....	4	.....	10	.....	.....	.....	.....	overcast	John Merrifield.
Sandwick Manse, Orkneys	.....	.....	30.24	768.1	43	6.1	72	ese.	30	13.4	.....	.....	9	.....	.....	.....	.....	d. clouds	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.59	751.6	29.66	753.4	48.6	9.2	89	ne.	.....	.....	2	.....	10	.....	.....	.....	.....	misty	W. H. Lyne.
Sheffield	29.74	755.4	30.03	762.7	46.5	8.1	87	ne.	.....	.....	1	.....	10	.....	.....	inap.	inap.	overcast	W. F. Cooper.
Silloth Rectory	29.98	761.5	30.01	762.2	47.7	8.7	67	e.	.....	.....	5	.....	8	.....	.....	0	0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	30.02	762.5	45.0	7.2	76	e.	22	9.8	.....	.....	10	.....	.....	.....	.....	overcast	Rev. S. J. Perry.
Stratfield Turgiss	29.64	752.8	29.86	758.4	56.4	13.6	78	e.	.....	.....	3	.....	2	.....	.....	.....	.....	blue sky	Rev. C. H. Griffiths, F.M.S.
Truro, Royal Institution	29.72	754.9	29.77	756.1	56	13.3	80	s.	.....	.....	0	.....	10	.....	.....	.....	.....	raining	W. Newcombe.
Valencia, Observatory	29.54	750.3	29.57	751.1	48.1	8.9	92	ese.	24	10.7	.....	.....	10	.....	.....	.....	.....	raining	The Met'g'l Office.
Canadian.																			
Bathurst, N. B	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.25	768.3	30.30	769.6	19	— 7.2	78	n.	19	8.5	.....	0	0	.....	.....	0.700	17.8	clear	H. J. Cundall, C. E.
Chatham, N. B*	30.37	771.4	30.43	772.9	16	— 8.9	91	nw.	5	2.2	.....	0	0	.....	.....	0.34	8.6	clear	G. A. Blair.
Father Point, Quebec*	30.43	772.9	30.45	773.4	19	— 7.2	84	sw.	15	6.7	.....	0	2 k	.....	calm	0	0	clear	J. McWilliams.
Fort Garry, Manitoba*	28.80	731.5	29.64	752.8	36	2.2	89	se.	8	3.6	.....	6 k	4 ks	W.	W.	0	0	cloudy	James Stewart.
Halifax, N. S*	30.15	765.8	30.29	769.4	24	— 4.4	80	n.	15	6.7	.....	10 k	0	ne.	.....	0.450	11.4	cloudy	A. Allison.
Kingston, Ontario*	30.14	765.5	30.49	774 4	32	0.0	81	n.	2	0.9	.....	0	0	.....	.....	0	0	clear	A. P. Knight, M. A.
Montreal, Quebec*	30.29	769.4	30.51	774.9	26	— 3.3	84	calm	0	0	.....	0	0	.....	.....	inap.	inap.	clear	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.73	755.1	30.46	773.7	30	— 1.1	88	se.	7	3.1	.....	0	0	.....	.....	0	0	clear	Rev. R. Mosley.
Port Dover, Ontario	29.69	754.1	30.41	772.4	36	2.2	90	ne.	11	4.9	.....	0	0	.....	.....	0	0	clear	H. Morgan.
Port Stanley, Ontario	29.70	754.4	30.38	771.6	35	1.7	85	e.	8	3.6	.....	0	0	.....	.....	0	0	clear	M. Payne.
Quebec, Quebec*	30.18	766.6	30.53	775.4	15	— 9.4	83	n.	.....	.....	1	0	2 s	.....	n.	0.20	5.1	clear	Capt. Ashe, R. N.
Rockliffe, Ontario*	30.00	762.0	30.49	774.4	28	— 2.2	88	calm	0	0	.....	0	0	.....	.....	0	0	clear	W. H. McIntyre.
Saugeen, Ontario*	29.65	753.1	30.40	772.1	35	1.7	79	se.	8	3.6	.....	0	0	.....	.....	0	0	clear	
St. Andrews, N. B	30.36	771.1	30.41	772.4	21	— 6.1	84	n	8	3.6	.....	0	0	.....	.....	0.39	9.9	clear	
Sydney, C. B*	30.03	762.7	30.09	764.3	20	— 6.7	100	n.	27	12.1	.....	0	2 ks	.....	n.	0.62	15.7	clear	T. C. Hill, C. E.
Toronto, Ontario*	30.08	764.0	30.48	774.2	35	1.7	88	e.	5	2.2	.....	0	hz.	.....	.....	0.04	1.0	clear	Magnetic Observatory.
Yarmouth, N. S*	30.30	769.6	30.37	771.4	26	— 3.3	80	n.	5	2.2	.....	.....	10 k	.....	ne	0.04	1.0	cloudy	Lt. F. E. Wilmot, R. N.
Sub-series.																			
St. Johns, Newfoundland	29.61	752.1	29.88	758.9	21	— 6.1	.....	e.	5	2.2	.....	.....	10 n	.....	.....	0	0	.....	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.14	765.5	30.17	766.3	69.0	20.6	88	nw.	7.0	3.1	.....	0	8 k	.....	.....	0	0	hazy	John Duthie.
Cape Town, C. G. H. Obs'y	30.06	763.5	30.10	764.5	71.2	21.8	61	s.	33	14.8	.....	0	2	.....	.....	0	0	.....	The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	OBSERVERS.
Chinese (Sub-series).																			
Hankow	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.19	30.2	.....	N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.88	759.0	29.91	759.6	52.3	11.3	92	ne.	3.8	1.7	.....	.....	10 n	.....	.....	0.358	9.1	raining	M. Marc Dechevrens, S.J.
Danish.																			
Copenhagen	30.37	771.4	30.42	772.6	43.5	6.4	64	ese.	18	8	.....	.....	0	.....	.....	.....	.....	.....	Oversergent Fischer.
Fanöe	30.30	769.5	30.32	770.0	49.1	9.5	61	e.	.....	.....	6	.....	1	.....	.....	.....	.....	.....	Overloerer Lauridsen.
Godthaab, Greenland	29.89	759.3	29.94	760.4	12.6	—10.8	93	nw.	.....	.....	2	.....	10	.....	.....	.....	.....	.....	S. Kleinschmidt.
Stykkisholm, Iceland	30.12	765.0	30.16	766.1	36.7	2.6	82	se.	.....	.....	2	.....	8	.....	.....	.....	.....	.....	A. O. Thorlacius.
Thorshavn	30.28	769.0	30.31	769.9	43.5	6.4	84	ese.	18	8	.....	.....	7	.....	.....	.....	.....	.....	Overloerer Bergh.
Vestervig	30.29	769.4	30.38	771.7	48.2	9.0	58	e.	.....	.....	6	.....	0	.....	.....	.....	.....	.....	Loerarer Oesterboi.
French.																			
Agen, Normal School	29.20	741.7	29.83	757.7	68.4	20.2	71	calm	.....	.....	0	0	2 k	.....	w.	0	0	slightly cl'dy	M. Labroue, Director.
Alençon, Normal School	29.35	745.6	29.91	759.6	55.0	12.8	81	s.	.....	.....	2	.....	kn	s.	s.	0	0	.....	M. Nicot, Director.
Arras, Engineer School	29.66	753.4	29.91	759.7	63.9	17.7	51	ne.	.....	.....	1	.....	ks	.....	.....	0	0	.....	Capt. Bertrand, Dir.
Avignon, Normal School	29.85	758.3	29.93	760.3	66.2	19	63	sw.	.....	.....	1	.....	5	.....	s.	0	0	cloudy	M. Giraud, Director.
Bar-sur-Seine	29.34	745.2	29.88	759.0	63.5	17.5	47	se.	.....	.....	1	.....	3	.....	e.	0	0	slightly cl'dy	M. Saillard, Director.
Beauvais, Normal School	29.63	752.7	29.89	759.3	64.0	17.8	43	e.	.....	.....	2	.....	2	.....	sse.	0	0	slightly cl'dy	M. Frère Eugène Mari.
Besançon, Normal School	28.96	735.5	29.83	757.7	60.8	16	59	ne.	.....	.....	1	0	2 cn	.....	nw.	0	0	slightly cl'dy	M. Gobin, Director.
Bordeaux, Observatory	29.53	750.0	29.79	756.6	64.6	18.1	56	sse.	.....	.....	1	.....	8	.....	sse.	0	0	very cloudy	M. Rayet, Director.
Bourges, Normal School	29.30	744.2	29.84	758.0	65.1	18.4	35	ese.	.....	.....	2	.....	8	.....	ese.	0	0	.....	M. Postel, Director.
Brest, Naval Observatory	29.58	751.2	29.82	757.4	58 6	14.8	70	sw.	.....	.....	2	.....	6	.....	sw.	0.157	4.0	.....	M. de Kermaree, Dir.
Caen, Normal School	29.72	754.9	29.80	756 8	67.6	19.8	47	se.	.....	.....	1	.....	2	.....	se.	0	0	slightly cl'dy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.53	750.1	29.84	758.0	67.1	19.5	50	sse.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Jadot, Director.
Charleville, Normal School	29.42	747.3	29.93	760.1	63.3	17.4	53	se.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.47	723.1	29.78	756.3	68.4	20.2	31	se.	.....	.....	2	0	2 k	.....	s.	0	0	¼ covered	M. Alluard, Director.
Cluny, Normal School	29.01	736.8	29.85	758.2	62.6	17	72	se.	.....	.....	2	.....	.....	.....	.....	0	0	.....	M. de Villemontée, Dir.
Commercy, Normal School	29.69	738.8	29.96	760.9	59.9	15.5	58	ene.	.....	.....	1	2 c	.....	ene.	ene.	0	0	slightly cl'dy	Dr. Coulet, Director.
Gap, Normal School	27.39	695.8	29.88	758.9	60.1	15.6	25	s.	.....	.....	3	0	2 k	.....	nw.	0	0	.....	M. Jeangirard, Director.
Gréasque, du. Rhone	28.82	731.9	29.89	759.3	59.5	15.3	58	se.	.....	.....	3	.....	7	.....	se.	0	0	.....	M. Kina, Director.
Grenoble, Normal School	29.10	739.2	29.85	758.3	62.4	16.9	51	nw.	.....	.....	1	2 ck	0	.....	.....	0	0	.....	M. Ablard, Director.
Guéret, Normal School	28.26	717.7	29.79	756.6	63.0	17.2	43	sse.	.....	.....	1	0	2 k	.....	s.	0	0	slightly cld'y	M. Rivoire, Director.
Lamballe, Normal School	29.56	750.7	29.83	757.6	51.8	11	86	se.	.....	.....	1	.....	8	.....	se.	0.059	1.5	light rain	M. Ollitrault, Director.
Lescar, Normal School	29.22	742.2	29.78	756.3	63.7	17.6	65	w.	.....	.....	2	.....	5	.....	.....	0	0	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	29.74	755.4	29.84	758.0	55.4	13.0	88	s.	.....	.....	1	.....	10	.....	s.	0.130	3.3	covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.09	738.9	29.89	759.2	62.1	16.7	41	se.	.....	.....	2	.....	5	.....	.....	0	0	fair	M. André, Director.
Mans, Normal School	29.56	750.7	29.86	758.4	60.8	16	55	nw.	.....	.....	1	.....	2	.....	w.	0	0	slightly cl'dy	M. Piboen, Director.
Marseille, Observatory	29.67	753.7	29.94	760.5	63.9	17.7	58	se.	.....	.....	3	.....	5	.....	sse.	0	0	.....	M. Stephan, Director.
Montlouis l'instituteur	24.65	626.1	29.49	749.1	48.2	9.0	48	sw.	9.4	4.2	.....	.....	4	sw.	.....	.....	.....	.....	M. Cave, for Dr. Fines.
Montpellier, Normal School	29.78	756.4	29.91	759.7	58.3	14.6	89	s.	.....	.....	1	0	2 k	.....	.....	0	0	slightly cld'y	M. Hasse, Director
Nancy, Normal School	29.17	740.8	29.94	760.5	58.3	14.6	57	w.	.....	.....	3	.....	5	.....	se.	0	0	cloudy	M. Galzin, Director.
Nantes, Observatory	29.70	754.4	29.86	758.5	58.5	14.7	72	sw.	.....	.....	0–1	.....	10k; kn	.....	ssw.	0	0	.....	M. Larocque, Director.
Perpignan, Observatory	29.72	754.8	29.82	757.5	64.4	18.0	50	e.	7.4	3.3	.....	.....	9	wsw.	.....	0	0	.....	Dr. Fines, Director.
Pic-du-Midi, Summit	21.05	534.6	.....	.....	29.8	— 1.2	.....	sw.	.....	.....	1	.....	10	.....	sw.	0.126	3.2	snowy	Gen'l de Nansouty, Dir.
Privas, Normal School	28.88	733.5	29.93	760.1	60.8	16	50	se.	.....	.....	1	.....	1	.....	se.	0	0	clear	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.00	634 9	.....	.....	43.7	6.5	78	se.	.....	.....	2	0	2 k	.....	.....	0	0	¼ covered	M. Alluard, Director.
Rochefort, Naval Obs'y	29.78	756.5	29.82	757.3	63.0	17.2	92	sw.	.....	.....	1	.....	8	.....	w.	0.217	5.5	¾ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.62	752.4	29.83	757.7	57.6	14.2	76	sw.	.....	.....	1	.....	5	se.	s.	0	0	cloudy	M. Mouillot, Director.
Rodez, Normal School	27.74	704.5	29.89	759.1	55.6	13.1	64	e.	.....	.....	2	.....	5	.....	.....	0	0	fair	M. Serger, Director.
Rouen, Normal School	29.83	757.0	29.87	758.8	64.4	18	47	ese.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Brotier.
Saint Maur, Observatory	29.72	755.0	29.89	759.2	66.7	19.3	40	ese.	.....	.....	2	.....	0	.....	.....	0	0	.....	M. Renou, Director.
Toulouse, Observatory	29.11	739.4	29.83	757.7	63.0	17.2	65	sse.	.....	.....	3	.....	2	.....	.....	0	0	slightly cl'dy	M. Baillaud, Director.
Versailles, Observatory	29.39	746.6	29.89	759.1	65.1	18.4	35	se.	.....	.....	3	.....	.....	.....	.....	0	0	.....	Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.60	751.9	29.89	759.3	67.1	19.5	41	ese.	.....	.....	2	.....	0	.....	.....	inap.	inap.	.....	M. Marié Davy, Director
German.																			
Bamberg	29.17	740.8	30.02	762.5	52.2	11.2	55	ne.	.....	.....	4	0	5 k	.....	.....	0	0	.....	Prof. Dr. Hoh.
Berlin	30.04	763.0	30.22	767.6	50.4	10.2	43	ne.	.....	.....	4	.....	7	.....	.....	0	0	.....	Prof. Dr. Arndt.
Breslau	29.64	752.8	30.17	766.4	44.2	6.8	67	ene.	.....	.....	2	.....	9	.....	.....	0	0	.....	Royal University Obs'y.
Carlsruhe	29.56	750.7	30.00	761.9	53.8	12.1	71	ne.	.....	.....	5	.....	10	.....	.....	0	0	.....	Albert Senz.
Cassel	29.33	744.9	30.04	763.0	53.4	11.9	45	ne.	.....	.....	4	.....	1	n.	.....	0	0	.....	Dr. H. Möhl.
Frankfort on the Main	29.66	753.3	30.02	762.6	52.9	11.6	67	ne.	.....	.....	1	.....	10	.....	.....	0	0	.....	Physical Society.
Friedrichshafen	28.49	723.6	29.93	760 2	52.2	11.2	76	sw.	.....	.....	3	.....	2	sw.	.....	0.673	17.1	thund'r st'm	Wilhelm, Chief Tel.
Hamburg	30.18	766.5	30.27	768.9	49.5	9.7	54	e.	.....	.....	5	.....	3	.....	.....	0	0	.....	E. Preller.
Kiel	30.28	769.0	30.29	769.4	45.0	7.2	73	ene.	.....	.....	5	.....	2	.....	.....	0	0	.....	Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.71	754.7	30.14	765.5	49.3	9.6	49	ene.	.....	.....	5	.....	7	e.	.....	0	0	stormy	H. Leppig, Asst.
Magdeburg	29.99	761.8	30.19	766.7	52.0	11.1	50	e.	.....	.....	3	0	3 k; ks	.....	ne.	0	0	.....	Dr. Assmann.
Memel	30.35	770.9	30.40	772.1	47.1	8.4	55	ne.	.....	.....	2	0	1 k	.....	.....	.....	.....	.....	Issermann.
Munich	28.12	714.2	29.98	761.4	55.6	13.1	54	ne.	.....	.....	2	.....	5	e.	.....	0	0	.....	Central Station.
Neufahrwasser	30.37	771.4	30.39	771.8	42.6	5.9	74	ne.	.....	.....	3	.....	0	.....	.....	0	0	.....	A. Lothes.
Neustadt, Palatinate	29.47	748.6	30.00	761.9	51.4	10.8	77	ne.	.....	.....	3	.....	8	.....	.....	0	0	.....	Dicknether.
Stuttgart	29.03	737.4	29.94	760.4	51.4	10.8	81	n.	.....	.....	1	.....	10	.....	.....	0	0	.....	Prof. Dr. Schoder.
Wustrow	30.34	770.7	30.37	771.3	45.1	7.3	73	ene.	.....	.....	4	0	3 k	.....	.....	0	0	.....	Profs. Brandes & Reime r
Greek.																			
Athens	29.43	747.6	29.82	757.5	64.0	17.8	.....	n.	.....	.....	2.0	8 k	.....	.....	.....	0.224	5.7	.....	Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.85	757.1	29.90	759.4	83.9	28.8	57	wsw.	28.0	12.5	.....	.....	2	.....	.....	0	0	d. clouds	
Leesa	29.33	745.0	29.79	756.8	93.8	34.3	22	w.	10.2	4.6	.....	.....	0	.....	.....	0	0	blue sky	
Bombay	29.77	756.1	29.81	757.1	86.6	30.3	50	nnw.	26.0	11.6	.....	.....	0	.....	.....	0	0	blue sky	
Poona, Yarrowda	27.94	709.7	29.74	755.4	94.8	34.9	21	wnw.	20.0	8.9	.....	.....	0	.....	.....	0	0	d. clouds	
Belgaum	27.27	692.7	29.75	755.7	87.5	30.8	53	w.	13.0	5.8	.....	.....	9	.....	w.	0	0	threatening	
Lahore	29.07	738.3	29.81	757.3	77.9	25.5	46	ne.	4.6	2.1	.....	.....	4	s.	.....	0	0	.....	
Roorkee	28.86	733.0	29.76	755.9	75.4	24.1	34	ne.	3.1	1.4	.....	.....	0	.....	.....	0.35	8.9	blue sky	
Agra	29.16	740.6	29.71	754.5	94.1	34.5	16	w.	8.7	3.9	.....	.....	3	.....	.....	0.06	1.5	thund'r st'm	
Nagpur	28.67	728.1	29.67	753.5	100.5	38.1	19	w.	6.2	2.8	.....	.....	5	.....	w.	0	0	.....	
Jubbulpore	28.38	720.7	29.68	753.9	98.7	37.1	12	w.	4.1	1.8	.....	.....	9	.....	w.	0	0	d. clouds	
Lucknow	29.26	743.2	29.62	752.4	99.4	37.4	26	wnw.	4.4	2.0	.....	.....	1	.....	.....	0	0	blue sky	
Allahabad	29.32	744.7	29.62	752.3	98.7	37.1	23	nw.	3.3	1.5	.....	.....	2	nne.	.....	0	0	d. clouds	
Patna	29.46	748.2	29.64	752.8	97.5	36.4	15	w.	8.3	3.7	.....	.....	0	.....	.....	0	0	blue sky	
Hazaribagh	27.72	704.0	29.66	753.4	92.8	33.8	15	wnw.	11.4	5.1	.....	.....	5	w.	w.	0	0	d. clouds	
Cuttack	29.61	752.1	29.69	754.1	88.9	31.6	55	wsw.	4.3	1.9	.....	.....	8	.....	w.	0	0	misty	
Calcutta, Alipore	29.63	752.7	29.66	753.2	88.0	31.1	74	s.	10.0	4.5	.....	.....	3	.....	.....	0	0	d. clouds	
Dhubri	29.44	747.8	29.56	750.7	87.4	30.8	61	calm	10.6	4.7	.....	.....	2	.....	.....	0	0	d. clouds	
Chittagong	29.69	754.1	29.78	756.3	80.5	26.9	80	ssw.	7.2	3.2	.....	.....	3	.....	.....	0	0	d. clouds	
Sibsagar	29.32	744.6	29.66	753.4	68.7	20.4	96	ne.	4.3	1.9	.....	.....	6	.....	.....	0	0	d. clouds	
Jeypore	28.31	719 2	29.73	755.2	88.2	31.2	12	nw.	9.1	4.1	.....	.....	10	w.	w.	0.56	14.2	gloomy	
Zanzibar, Africa	29.82	757.4	.....	.....	90.0	32.2	57	ese.	4.9	2.2	.....	.....	0	.....	.....	0	0	blue sky	
Bellary	28.31	719.1	.....	.....	98.0	36.7	12	e.	3.8	1.7	.....	.....	4	.....	.....	0	0	d. clouds	
Trichinopoly	29.54	750.3	.....	.....	94.8	34.9	42	se.	2	0.9	.....	.....	0	.....	.....	0	0	blue sky	
Italian.																			
Udine	29.49	749.1	29.90	759.5	66.9	19.4	37	sw.	1.3	0.6	.....	.....	10	.....	.....	0	0	overcast	
Milan	29.42	747.2	29.93	760.3	63.0	17.2	45	w.	4.9	2.2	.....	.....	4	.....	.....	0	0	.....	Prof. Giovanni Clodig.
Padua	29.81	757.2	29.92	760.0	62.6	17.0	49	s.	1.8	0.8	.....	.....	4	ene.	.....	0	0	.....	Prof. Schiaparelli.
Moncalieri	29.01	736.9	29.91	759.8	61.7	16.5	46	e.	3.1	1.4	.....	.....	0	.....	.....	0	0	.....	Prof. Dott. Lorenzoni.
Genoa	29.77	756.2	29.96	761.0	59.9	15.5	60	sw.	5.6	2.5	.....	.....	3	ne.	.....	0	0	.....	Prof. P. F. Denza.
Mondovi	28.00	711.1	29.92	759.9	59.0	15.0	42	s.	.....	.....	2	.....	0	.....	.....	0	0	.....	Prof. G. M. Garibaldi.
												.....	5	.....	.....	0	0	.....	Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
ITALIAN.—Continued.																			
Pesaro	29.87	758.6	29.91	759.8	60.1	15.6	60	n.	9.8	4.4	.....	.....	3	.....	.....	0	0	.....	Prof. Luigi Guidi.
Florence	29.70	754.3	29.95	760.7	59.5	15.3	60	w.	.....	.....	2	.....	3	.....	.....	0	0	.....	Prof. Costantino Pitter.
Leghorn	29.82	757.4	29.91	759.6	60.3	15.7	76	w.	0.7	0.3	.....	.....	0	.....	.....	0	0	.....	Prof. P. Monte.
Rome	29.76	755.9	29.93	760.3	65.5	18.6	33	nnw.	4.3	1.9	.....	.....	1	.....	.....	0.039	1.0	.....	Prof. P. S. Ferrari.
Lecce	29.64	752.8	29.89	759.2	62.8	17.1	55	nnw.	9.4	4.2	.....	.....	0	.....	.....	0	0	.....	Prof. C. de Giorgi.
Cosenza	29.03	737.4	29.92	760.0	61.2	16.2	73	wnw.	4.3	1.9	.....	.....	3	nw.	.....	0.012	0.3	.....	Prof. D. Conti.
Cagliari	29.73	755.2	29.93	760.1	63.0	17.2	67	se.	.....	.....	2	.....	4	.....	.....	0	0	.....	Prof. A. Pacinotti.
Palermo	29.73	755.2	29.98	761.5	63.9	17.7	45	ne	7.4	3.3	.....	.....	0	.....	.....	0	0	.....	Prof. G. Cincciatore.
Syracuse	29.86	758.5	29.91	759.6	62.8	17.1	71	ese.	6.9	3.1	.....	.....	3	wnw.	.....	0	0	.....	Prof. Vincenzo Guiliano.
Sub-series.																			
Naples, S. R	29.41	747.1	29.93	760.2	61.7	16.5	73	wsw.	7.4	3.3	.....	.....	6	ne.	.....	0	0	.....	Prof. T. Brioschi.
Stelvio	22.04	559 9	.....	.....	34.0	1.1	62	s.	.....	.....	2	.....	6	.....	.....	0	0	misty	Prof. P. F. Denza.
Valdobbia	22.09	561.1	.....	.....	36.1	2.3	62	e.	.....	.....	2	.....	6	.....	.....	0.197	5.0	misty	Prof. P. F. Denza.
JAPANESE.																			
Aomori	29.59	751.6	29.62	752.3	43.2	6.2	91	nne.	3.2	1.4	.....	.....	10 n	.....	.....	0.390	9.9	raining	K. Ogawa.
Hakodate	29.65	753.1	29.66	753.3	39.5	4.2	88	ene.	24.0	10.7	.....	.....	10	.....	.....	0.415	10.5	covered	
Hiroshima, I. M. Obs'y	29.70	754.4	29.72	754.9	56.5	13.6	99	wsw.	0.1	0.0	.....	.....	10 n	.....	.....	0.720	18.3	.....	K. Sasaki.
Kanazawa	29.64	752.8	29.74	755 4	57.0	13.9	97	w.	17.2	7.7	.....	.....	10 n	.....	.....	0.390	9.9	raining	S. Endo.
Kioto	29.58	751.3	29.75	755.6	55.3	12.9	96	nw.	1.5	0 7	.....	.....	10 n	.....	.....	0.080	17.3	light rain	M. Tojima.
Kochi	29.72	754.9	29.75	755.6	63.0	17.2	96	nw.	3.9	1.7	.....	.....	10 s	.....	s.	0.870	22.1	light rain	
Nagasaki, I. M. Obs'y	29.59	751.6	29.79	756.6	60.6	15.9	95	sw.	3.1	1.4	.....	.....	10 n	.....	.....	0.400	10.2	light rain	S. Takehayashi.
Niigata	29.60	751.8	29.63	752.6	52.7	11.5	95	sw.	2.9	1.3	.....	.....	10 n	.....	.....	0.530	13.5	raining	
Nobiru	29.64	752.8	29.66	753.3	46.3	7 9	98	s.	24.8	11.1	.....	.....	10 n	.....	.....	0.570	14.5	stormy	H. Midzushina.
Supporo	.....	.....	.....	.....	33.5	0.8	94	se.	3.0	1.3	.....	.....	10	.....	.....	0.015	0.4	snowing	
Tokei Obs'y, Yeddo	29.69	754.1	29.76	755.9	49.8	9.9	100	nne.	3.5	1.6	.....	.....	10 n	.....	.....	0.153	3.9	light rain	The Staff.
Wakayama	29.66	753.3	29.71	754.6	66.4	19.1	94	ssw.	2.1	0.9	.....	.....	10 s	.....	s.	0.549	13.9	cloudy	Y. Kuwamuea.
MAURITIUS.																			
Mauritius Observatory	29.80	756.9	29.99	761.7	79.6	26.4	71	e.	21.5	9.7	.....	0	4 k;n	.....	ese.	0	0	fair	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.72	602 5	29.95	760.5	59.9	15.5	66	calm	0	0	.....	0	0	.....	.....	0	0	clear	Vicente Fernandez.
Leon	24.41	620.0	30.10	764.5	57.9	14.4	78	ne.	.....	.....	1	1ck	0	.....	.....	0	0	clear	Prof. M. Leal.
Mazatlan	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	F. Quijano, C. E.
Mexico, Central Obs'y	23.10	586 5	30.16	766.0	54.5	12.5	78	calm	0	0	.....	0	9 kn	.....	w.	0	0	.....	The Staff.
Morelia	24.19	614.3	30.29	769.3	59.7	15.4	71	e.	.....	.....	3	0	0	.....	.....	0	0	clear	M. Tena, M. D.
Pabellon, Aguascallentes	24.00	609.2	29.96	761.0	59.7	15.4	76	n.	.....	.....	1	0	9 ks	.....	nne.	0	0	.....	M. V.de Leon, M. E.
Puebla, Catholic Institute	23.39	594.1	30.14	765.5	51.8	11.0	98	calm	0	0	.....	0	8	.....	nnw.	0	0	covered	Prof. P. Spina.
San Luis Potosi	24.17	614.0	30.32	770.1	59.5	15.3	69	se.	.....	.....	1	0	5	.....	se.	0	0	½ clouded	G. Barroeta, M. D.
Zacatecas	22.58	573.6	30.32	770.2	50.0	10.0	91	...	.....	.....	.....	0	0	.....	.....	0	0	fine	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.01	762.2	30.01	762.2	53.8	12.1	.....	ese.	.....	.....	4	.....	.....	.....	.....	0.008	0.2	.....	
Groningen	30.08	764.1	30.14	765.5	50.7	10.4	.....	e.	.....	.....	5	.....	.....	.....	.....	0.004	0.1	.....	
Helder	30.07	763.7	30.07	763.7	45.7	7.6	.....	e.	.....	.....	4	.....	.....	.....	.....	0	0	.....	
Hellevoetsluis	30.01	762.2	30.01	762.2	53.2	11.8	75	e.	.....	.....	3	.....	.....	.....	.....	0	0	.....	
Utrecht	30.00	761.9	30.04	763.1	53.2	11.8	73	e.	.....	.....	3	.....	8	.....	.....	0	0	very cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	30.36	771.2	30.43	772.8	47.5	8.6	40	e.	9	4	.....	.....	1	.....	.....	0	0	.....	
Brono	30.51	774.9	30.55	775.9	40.6	4.8	67	ne.	4	2	.....	.....	1	.....	.....	0.067	1.7	.....	
Christiania	30.37	771.3	30.52	775.1	47.1	8.4	55	ese.	4	2	.....	.....	6	.....	.....	0	0	.....	
Gjæsvær	30.43	772.9	30.45	773.5	33.8	1.0	.....	nw.	.....	.....	6	.....	10	.....	.....	.....	.....	.....	
Lodingen	30.55	776.0	30.60	777.2	38.5	3.6	83	calm	.....	.....	0	.....	9	.....	.....	.....	.....	.....	
PORTUGUESE.																			
Angra, Azores	.....	.....	.....	.....	61.2	16.2	79	wnw.	18.6	8.3	.....	.....	3	.....	.....	0	0	.....	Dr. J. A. Sampaio.
Campo Major	28.98	736.1	29.99	761.7	56.3	13.5	60	w.	7.4	3.3	.....	.....	8	.....	.....	0.189	4.8	.....	Dr. A. M. R. dos Santos.
Funchal, Maderia	30.05	763.2	30.13	765.4	64.4	18.0	71	sw.	.....	.....	.....	.....	3	.....	.....	0	0	.....	Capt. D. A. de Cunha.
Lisbon, Observatory	29.68	753.8	30.04	763.0	58.3	14.6	52	wnw.	12.5	5.6	.....	.....	6	.....	.....	0.185	4.7	.....	The Staff.
Ponta Delgada, Azores	29.93	760.3	30.00	762.1	62.2	16.8	88	w.	12.5	5.6	.....	.....	10	.....	.....	0.177	4.5	raining	
Saint Paul de Loando	29.71	754.5	29.90	759.5	82.8	28.2	86	wsw.	0.7	0.3	.....	.....	3	sse.	.....	blank	blank	.....	
Serra da Estrella	25.13	638.4	30.04	763.0	30.4	— 0.9	100	wnw.	25.5	11.4	.....	.....	9	.....	.....	1.161	29.5	fog & snow	
RUSSIAN.																			
Akmolinski	28.73	729.7	29.85	758.1	30.0	— 1.1	84	sse.	13	6	.....	5 ck	0	.....	.....	0	0	.....	Major K. Lasarew.
Archangel	30.04	763.0	30.00	763.5	29.8	— 1.2	84	wnw.	13	6	.....	.....	10	.....	.....	0	0	.....	Capt. Sselliwerstow.
Astrakhan	29.85	758.1	29.76	756.0	53.2	11.8	54	sse.	7	3	.....	0	2 s	.....	.....	0	0	light clouds	Capt. Wisganow.
Barnaul	29.75	755.7	30.28	769.1	30.7	— 0.7	62	ne.	2	1	.....	.....	5	.....	.....	0	0	light clouds,	Meteorological Obs'y.
Dorpat	30.16	766.1	30.41	772.5	44.1	6.7	46	nne.	7	3	.....	0	1 k	.....	.....	0	0	.....	Observatory.
Ekaterinburg	28.71	729.2	29.70	754.3	32.4	0.2	50	se.	9	4	.....	.....	10	.....	.....	0	0	.....	Meteorological Obs'y.
Kasan	29.46	748.2	29.74	755.3	33.3	0.7	85	nw.	2	1	.....	.....	10	.....	.....	0.004	0.1	.....	Observatory.
Kertch	29.69	754.1	29.71	754.6	58.1	14.5	55	nne.	13	6	.....	0	2 s	.....	.....	0	0	.....	Lagorio & Sastyrex.
Kieff	29.46	748.2	30.11	764.7	45.3	7.4	46	n.	11	5	.....	c;cs	10 ks	.....	.....	0	0	.....	Observatory.
Lugan	29.68	753.8	29.88	759.0	47.3	8.5	40	n.	31	14	.....	.....	6	.....	.....	0	0	.....	Meteorological Obs'y
Moscow	29.56	750.7	30.05	763.2	38.5	3.6	70	n.	4	2	.....	0	8 ks	.....	.....	0.016	0.4	.....	Meteorological Obs'y.
Nikolaiev	29.87	758.7	29.94	760.5	62.1	16.7	54	ne.	13	6	.....	0	0	.....	.....	0	0	.....	Capt. Kurdakow.
Nikolaievsk, on the Amoor	29.82	757.4	29.91	759.6	18.0	— 7.8	60	calm	0	0	.....	.....	0	.....	.....	0.087	2.2	.....	Lieut. Iwanow.
Pekin, China	29.95	760.8	30.10	764.4	42.6	5.9	28	nw.	22	10	.....	0	0	.....	.....	0.114	2.9	.....	Physical Observatory
St. Petersburg	30.31	769.9	30.33	770.3	43.2	6.2	49	wnw.	7	3	.....	0	0	.....	.....	0	0	.....	Central Physical Obs'y
Ssemipalatinsk	29.47	748.5	30.17	766.4	21.0	— 6.1	56	ese.	7	3	.....	8 c	0	.....	.....	c	0	light clouds	Major Lasaren.
Tashkend, Laboratory	28 43	722.1	29.97	761.3	64.8	18.2	58	calm	0	0	.....	.....	4	.....	.....	0.264	6.7	.....	Teich, A. M.
Tiflis	28.34	719.8	29.74	755.3	57.4	14.1	66	calm	0	0	.....	.....	10 n	.....	.....	0.059	1.5	light rain	Physical Observatory
Vladivostok	29.70	754.3	29.70	750.0	35.6	2.0	100	n.	9	4	.....	.....	10 n	.....	.....	0.732	18.6	.....	
Warsaw	29.79	756.6	30.22	767.5	49.3	9.6	52	ese.	20	9	.....	.....	9 ks	.....	.....	.....	.....	.....	Astronomical Obs'y
Wilna	29.93	760.1	30.36	771.1	44.8	7.1	52	ese.	2	1	.....	10	.....	.....	.....	0	0	heavy clouds	Berg, Assistant.
Yeniseisk	30.00	761.9	30.30	769.6	26.2	— 3.2	50	w.	2	1	.....	0	.....	.....	.....	0	0	.....	M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	29.76	755.9	29.87	758.6	61.5	16.4	71	s.	3.6	1.6	.....	.....	1	.....	.....	0	0	almost clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	29.86	758 4	29.92	759.9	52.2	11.2	88	ne.	2.7	1.2	.....	.....	10	.....	.....	0.236	6.0	covered	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	26.91	683.6	29.91	759.6	47.7	8.7	81	w.	11.9	5.3	.....	.....	9	.....	.....	0.315	8.0	almost cov'd	Domingo Martin.
Madrid, Royal Obs'y	27.65	702.4	29.89	759.2	53.6	12.0	61	sw.	24.2	10.8	.....	.....	9	.....	.....	0.039	1.0	almost cov'd	The Staff.
Murcia, Met. Obs'y	29.74	755.4	29.85	758.1	73.2	22.9	71	ssw.	2.0	0.9	.....	3	4	e.	.....	0	0	cloudy	Olayo Diaz, Director.
Santiago, Met. Obs'y	28.95	735.3	29.85	758.3	52.2	11.2	74	sw.	9.8	4.4	.....	.....	7	.....	.....	0.878	22.3	cloudy	R. Gil Vallanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I	29.96	760.9	30.02	762.5	69.4	20.8	90	e.	7.2	3.2	.....	2 c	3 ck	w.	se.	1.098	27.9	fair	Benito Vines, S. J.
Manilla, Philippine Islands	29.84	757.9	29.90	759.4	82.7	28.2	64	e.	7.3	3.3	.....	0	s	.....	.....	0	0	clear	F. Faura, S. J.
San Fernando, Naval Obs'y	29.98	761.5	30.08	764.1	64.2	17.9	65	wsw.	8.2	3.7	.....	0	8	.....	s.	0.059	1.5	.....	Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	30.02	762.4	30.11	764.7	76.6	24.8	80	calm	0	0	.....	0	5 k	.....	s.	0	0	cloudy	Manuel Maeu.
Tuguegarao, Philippine Id's	29.76	755.9	29.90	759.4	84.1	28.9	65	s.	2.7	1.2	.....	0	1 ck	.....	s.	0	0	clear	José L. Yrastorza.
SWEDISH																			
Haparanda	30.43	773.0	30.47	774.0	38.8	3.8	60	n.	.....	.....	2	.....	0	.....	.....	0	0	.....	
Umea	30.46	773.7	30.51	775.0	43.9	6.6	51	n.	.....	.....	2	.....	0	.....	.....	0	0	.....	
Hernosand	30.51	774.9	30.56	776.2	43.0	6.1	55	s.	.....	.....	2	.....	0	.....	.....	0	0	.....	
Stockholm	30.32	770.2	30.50	774.7	42.8	6.0	42	ne.	.....	.....	2	.....	0	.....	.....	0	0	.....	
Wisby	30.38	771.6	30.44	773.1	37.0	2.8	82	nne.	.....	.....	4	.....	0	.....	.....	0	0	.....	
Sub-series.																			
Upsala	30.41	772.4	30.50	774.6	43.3	6.3	38	n.	10.3	4.6	.....	.....	0	.....	.....	0	0	.....	S. G. Fineman.
SWISS.																			
Geneva	28.50	724.0	29.93	760.1	55.8	13.2	43	nw.	.....	.....	2	.....	.....	.....	.....	0	0	clear	The Observatory

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
TURKISH.																			
Constantinople	.....	.....	29.71	754.6	49.5	9.7	80	n.	10	4.5	.....	.....	10	.....	n.	0	0	.....	The Observatory.
Valona	.....	.....	29.95	760.7	63.7	17.6	.....	w.	.....	.....	1	.....	5	.....	.....	0	0	cloudy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	29.75	755.6	59.9	15.5	87	sw.	.....	.....	4	.....	10 n	.....	sw.	0.60	15.2	.....	Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	30.41	772.4	30.49	774.4	40.5	4.7	61	n.	2	0.9	.....	.....	10 s	.....	.....	0.07	1.8	cloudy	J. C. Barnes.
Alpena, Michigan	29.71	754.6	30.40	772.1	33	0.6	88	s.	6	2.7	.....	0	0	.....	.....	0	0	clear.....	Jas. J. Fitzgerald.
Atlanta, Georgia	29.11	739.4	30.30	769.6	63.5	17.5	59	w.	8	3.6	.....	2 k	0	calm	.....	0	0	clear	H. Hall.
Atlantic City, New Jersey	30.40	772.1	30.40	772.1	42	5.6	82	ne.	24	10.7	.....	.....	10 s	.....	n.	0.05	1.3	cloudy.....	Jas. M. Watson.
Augusta, Georgia	30.11	764.8	30.30	769.6	61.0	16.1	87	calm	0	0	.....	0	0	.....	.....	0	0	clear.....	John Healy.
Baltimore, Maryland	30.38	771.6	30.43	772.9	48	8.9	63	ne.	8	3.6	.....	hz.	1 s;hz	.....	.....	0	0	clear.....	Robert Seyboth.
Barnegat, New Jersey	30.42	772.7	30.44	773.2	39.5	4.2	78	e.	16	7.2	.....	.....	10 s	.....	e.	0.13	3.3	cloudy.....	Chas. F. Merritt.
Bismarck, Dakota	27.85	707.4	29.72	754.9	38	3.3	92	e.	3	1.3	.....	10 cs	0	sw.	.....	0	0	cloudy.....	Cyrus Cramer.
Boise City, Idaho	26.97	685.0	29.81	757.2	47	8.3	66	w.	4	1.8	.....	.....	10 s	.....	calm	0	0	cloudy	B. E. Light.
Boston, Massachusetts	30.31	769.9	30.47	773.9	33.0	0.6	68	ne.	4	1.8	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	O. B. Cole.
Brownsville, Texas	30.04	763.0	30.09	764.3	66	18.9	90	calm	0	0	.....	0	0	.....	.....	0.68	17.3	clear.....	J. C. Galloway.
Buffalo, New York	29.65	753.1	30.42	772.7	35.8	2.1	74	ne.	9	4.0	.....	0	sk.	.....	.....	0.07	1.8	clear.....	Wm. Finn.
Burlington, Vermont	30.20	767.1	30.50	774.7	29.5	— 1.4	86	calm	0	0	.....	0	0	.....	.....	0.03	0.8	clear.....	G. C. Schaeffer.
Cairo, Illinois	29.88	758.9	30.29	769.4	63.6	17.6	70	s.	2	0.9	.....	0	hz.	.....	.....	0	0	clear.....	W. H. Ray.
Campo, California	27.39	695.7	29.97	761.2	44	6.7	93	sw.	12	5.4	.....	.....	10 n	.....	sw.	0.16	4.1	light rain....	W. H. Clendenon.
Camp Thomas, Arizona	27.09	688.1	29.82	757.4	52.5	11.4	63	n.	.....	.....	1	4 ck	3 ks	w.	w.	0	0	fair.....	J. T. Fitzgerald.
Cape Henry, Virginia	30.25	768.3	30.27	768.8	53	11.7	72	ne.	29	13.0	.....	2 ck	hz.	.....	.....	0	0	clear.....	J. E. Lanouette.
Cape May, New Jersey	30.41	772.4	30.44	773.2	45	7.2	68	ne.	13	5.8	.....	.....	10 s	.....	.....	0	0	cloudy.....	W. Bolten.
Cedar Keys, Florida	30.23	767.8	30.25	768.3	62	16.7	84	ne.	8	3.6	.....	0	0	.....	.....	0	0	clear.....	F. W. Mixer.
Champaign, Illinois	29.35	745.5	30.19	766.8	50.0	10.0	71	e.	6	2.7	.....	1 ck	0	sw.	.....	0	0	clear.....	L. A. Welsh.
Charleston, S. Carolina	30.21	767.3	30.27	768.8	63	17.2	90	w	1	0.4	.....	0	fg.	.....	calm	0	0	clear.....	J. H. Smith.
Charlotte, N. Carolina	29.37	746.0	30.23	767.8	62.0	16.7	72	w.	5	2.2	.....	5 k	sk.	w.	.....	0	0	fair.....	D. O. Donoghue.
Chattanooga, Tennessee	29.48	748.8	30.31	769.9	58.0	14.4	74	ne.	4	1.8	.....	9 ck	fg.	e.	.....	0	0	cloudy.....	B. L. Goulding.
Cheyenne, Wyoming	23.98	609.1	29.98	761.5	52.6	11.4	25	nw.	12	5.4	.....	.....	10 s	.....	nw.	0	0	cloudy.....	E. McGovern.
Chicago, Illinois	29.50	749.3	30.22	767.6	43.9	6.6	86	se.	9	4.0	.....	3 k	0	nw.	.....	0	0	clear.....	J. Mitchell.
Chincoteague, Virginia	30.31	769.9	30.33	770.4	47	8.3	68	e.	22	9.8	.....	2 k	0	e.	.....	0	0	clear.....	V. P. Temple.
Cincinnati, Ohio	29.57	751.1	30.24	768.1	61.5	16.4	80	n.	2	0.9	.....	0	0	.....	.....	0.07	1.8	clear.....	R. B. Watkins.
Cleveland, Ohio	29.59	751.6	30.35	770.9	40.6	4.8	84	ne.	2	0.9	.....	0	0	.....	.....	0.08	2.0	clear.....	J. B. Newlin.
Coleman City, Texas	28.33	719.6	30.15	765.8	57	13.9	93	se.	3	1.3	.....	0	6 s	.....	s.	0	0	fair.....	L. Dorman.
Columbus, Ohio	29.41	747.0	30.28	769.1	51	10.6	66	ne.	4	1.8	.....	0	0	.....	.....	0.03	0.8	clear.....	D. Cuthbertson.
Concho, Texas	28.17	715.5	30.11	764.8	58	14.4	86	e.	4	1.8	.....	5 k	3 s	se.	.....	0.02	0.5	cloudy.....	W. W. McConihe.
Davenport, Iowa	29.48	748.8	30.15	765.8	52	11.1	59	se.	3	1.3	.....	3 cs	hz.	calm	calm	0	0	clear.....	R. R. Martin.
Dayton, Washington T'y	28.20	716.3	29.95	760.7	38	3.3	86	se.	2	0.9	.....	0	0	.....	.....	0	0	clear.....	H. Clifford.
Deadwood, Dakota	25.19	639.8	29.88	758.9	55	12.8	40	sw.	6	2.7	.....	10 cs	0	w.	.....	0	0	cloudy	G. W. Scott.
Decatur, Texas	.....	.....	.....	.....	67	19.4	42	se.	10	4.5	.....	0	2 s	.....	.....	0	0	clear.....	D. J. Carr.
Delaware Breakwater, Del.	30.38	771.6	30.40	772.1	45	7.2	93	ne.	26	11.6	.....	.....	10 s	.....	ne.	inap.	inap.	cloudy	A. Schneider.
Denison, Texas	29.37	746.0	30.17	766.3	63.3	17.4	90	s.	6	2.7	.....	.....	10 s	.....	s.	0	0	cloudy	J. McGlone.
Denver, Colorado	24.65	626.1	29.92	760.0	55.0	12.8	35	s.	4	1.8	.....	.....	10 s	.....	w.	0	0	cloudy	F. M. Neal.
Des Moines, Iowa	29.13	739.9	30.06	763.5	58	14.4	69	sw.	4	1.8	.....	7 cs	0	sw.	.....	0	0	fair.....	F. W. Conrad.
Detroit, Michigan	29.63	752.6	30.36	771.1	41.2	5.1	82	ne.	9	4.0	.....	0	0	.....	.....	0	0	clear.....	C. F. R. Wappenhans.
Dodge City, Kansas	27.35	694.7	29.99	761.7	58.5	14.7	79	s.	12	5.4	.....	.....	10 s	.....	.....	0	0	cloudy.....	E. A. Thomas.
Dubuque, Iowa	29.44	747.8	30.17	766.3	48.5	9.2	50	se.	3	1.3	.....	8 c	0	sw.	.....	0	0	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.25	742.9	29.97	761.2	35	1.7	79	ne.	2	0.9	.....	0	1 s	.....	calm	0	0	clear.....	N. B. Conger.
Eagle Pass, Texas	29.33	745.0	30.14	765.5	65.1	18.4	90	se.	1	0.4	.....	0	3 s	.....	se.	0	0	clear.....	F. Belford.
Eagle Rock, Idaho	25.16	639.1	29.88	758.9	37	2.8	66	n.	6	2.7	.....	4 cs	0	sw.	.....	0	0	fair	J. M. Clifford.
Eastport, Maine	30.36	771.1	30.44	773.2	22.5	— 5.3	65	n.	15	6.7	.....	0	0	.....	.....	0.38	9.7	clear.....	J. H. Melton.
El Paso, Texas	26.19	665.2	29.93	760.2	58	14.4	64	ne.	4	1.8	.....	0	0	.....	.....	0	0	clear.....	J. F. Marshall.
Erie, Pennsylvania	29.64	752.8	30.39	771.9	40	4.4	89	ne.	1	0.4	.....	0	0	.....	.....	0	0	clear.....	R. H. Paxton.
Escanaba, Michigan	29.55	750.6	30.24	768.1	35	1.7	79	se.	10	4.5	.....	5 c	5 s	nw.	.....	0	0	cloudy	C. Dill.
Florence, Arizona	28.33	719.6	29.83	757.7	58.4	14.7	45	s.	3	1.3	.....	.....	10 s	.....	sw.	0	0	cloudy.....	R. R. Herman.
Fort Apache, Arizona	24.96	634.0	29.88	758.9	37	2.8	66	e.	2	0.9	.....	0	6 s	.....	calm	0	0	fair	W. O. Barnes.
Fort Assinnaboine, Montana	27.24	691.9	30.14	765.5	34	1.1	65	n.	11	4.9	.....	.....	10 s	.....	w.	0	0	cloudy.....	B. O. Lenoir.
Fort Bennett, Dakota	28.08	713.2	29.72	754.9	58	14.4	56	w.	2	0.9	.....	.....	10 s	.....	.....	0	0	cloudy.....	T. Gibson.
Fort Benton, Montana	27.30	693.4	30.16	766.1	34	1.1	72	ne.	10	4.5	.....	.....	10 ks	.....	ne.	0	0	cloudy.....	S. Wheaton.
Fort Buford, Dakota	27.80	706.1	29.87	758.7	49	9.4	66	nw.	12	5.4	.....	.....	10 s	.....	nw.	0	0	cloudy.....	A. H. Bell.
Fort Custer, Montana	26.71	678.4	29.89	759.2	58	14.4	43	w.	7	3.1	.....	.....	10 s	.....	calm	0	0	cloudy.....	V. Verge.
Fort Davis, Texas	25.19	639.8	29.98	761.5	52	11.1	86	s.	2	0.9	.....	0	6 ks	.....	s.	0	0	fair.....	J. Williams.
Fort Elliott, Texas	27.26	692.4	30.04	763.0	57	13.9	60	s.	16	7.2	.....	.....	10 s	.....	s.	0	0	cloudy	W. J. Cundall.
Fort Gibson, Indian T'y	29.60	751.8	30.18	766.6	62.3	16.8	73	s.	7	3.1	.....	0	0	.....	.....	0	0	clear.....	J. B. Campbell.
Fort Grant, Arizona	25.15	638.8	29.88	758.9	52	11.1	33	calm	0	0	.....	7 k	0	.....	.....	0	0	fair.....	T. J. Mackowan.
Fort Griffin, Texas	28.85	732.8	30.15	765.8	61	16.1	84	calm	0	0	.....	0	0	.....	.....	0	0	clear.....	G. H. Hayne.
Fort Keogh, Montana	27.32	693.9	29.86	758.4	59	15.0	25	nw.	15	6.7	.....	5 cs	0	w.	.....	0	0	fair.....	W. B. Stockman.
Fort Macon, North Carolina	30.23	767.8	30.24	768.1	61	16.1	93	sw.	10	4.5	.....	hz.	hz.	calm	calm	0.15	3.8	light haze...	L. Leonardy.
Fort McKavett, Texas	27.87	707.9	30.13	765.3	61	16.1	78	e.	8	3.6	.....	.....	10 s	.....	.....	0	0	cloudy.....	J. E. Thatcher.
Fort Missoula, Montana	26.69	677.9	30.00	762.0	35	1.7	82	sw.	2	0.9	.....	0	0	.....	.....	0	0	clear.....	J. H. Jones.
Fort St. Michaels, Alaska	29.86	758.4	29.89	759.2	— 9.	—22.8	100	calm	0	0	.....	0	0	.....	.....	0	0	clear.....	A. P. Leavitt.
Fort Shaw, Montana	26.47	672 3	30.14	765.5	31	— 0.6	81	ne.	8	3.6	.....	.....	10 s	.....	.....	0	0	cloudy	A. L. Mathews.
Fort Sill, Indian Territory	28.87	733.3	30.11	764.8	57.7	14.3	94	s.	4	1.8	.....	.....	10 s	.....	s.	0	0	cloudy.....	T. Cleary.
Fort Stevenson, Dakota	27.85	707.4	29.75	755.6	34	1.1	88	n.	1	0.4	.....	0	6 ks	.....	.....	0	0	fair.....	W. Burrows.
Fort Verde, Arizona	.....	.....	.....	.....	59.2	15.1	67	se.	.....	.....	2	.....	10 s	.....	se.	0	0	cloudy.....	D. Brooks.
Fort Washakie, Wyoming	24.35	618.5	.....	.....	48.0	8.9	58	nw.	8	3.6	.....	.....	10 ks	.....	nw.	0	0	cloudy	T. M. Ambler.
Fredericksburg, Texas	28.39	721.1	30.11	764.8	63	17.2	93	s.	7	3.1	.....	10 k	0	sw.	.....	0	0	cloudy.....	H. S. Miles.
Galveston, Texas	30.13	765.3	30.17	766.3	70	21.1	80	e.	12	5.4	.....	0	5 k	e.	0	0	0	fair.....	E. O'C. MacInerney.
Grand Haven, Michigan	29.60	751.8	30.29	769.4	43.0	6.1	78	e.	12	5.4	.....	0	0	.....	.....	0	0	clear.....	W. A. Reid.
Hatteras, North Carolina	30.22	767.6	30.24	768.1	62	16.7	87	sw.	18	8.0	.....	hz.	0	.....	.....	0	0	clear.....	R. M. Crawford.
Helena, Montana	25.77	654.5	30.03	762.7	39	3.9	65	sw.	13	5.8	.....	0	5 s	.....	sw.	0	0	fair.....	N. C. Smith.
Henrietta, Texas	29.17	740.9	30.20	767.1	62.0	16.7	87	s.	7	3.1	.....	.....	10 s	.....	sw.	0	0	cloudy.....	J. W. Byram.
Huron, Dakota	28.35	720.1	29.80	756.9	50.1	10.1	83	se.	14	6.3	.....	6 cs	0	sw.	.....	0	0	fair	S. W. Glenn.
Indianapolis, Indiana	29.39	746.5	30.21	767.3	57	13.9	77	n.	1	0.4	.....	0	hz.	.....	calm	0.01	0.3	clear.....	O. Schutze
Indianola, Texas	30.10	764.5	30.14	765.5	71.0	21.7	84	e.	16	7.2	.....	0	hz.	.....	.....	0	0	clear.....	I. A. Reed.
Jacksboro, Texas	28.98	736.1	30.16	766.1	62	16.7	87	se.	10	4.5	.....	0	5 ks	.....	se.	0	0	clear.....	J. P. Sherry.
Jacksonville, Florida	30.23	767.8	30.27	768.8	60	15.6	87	e.	1	0.4	.....	0	fg.	.....	.....	0	0	fair.....	J. W. Smith.
Keokuk, Iowa	29.46	748.3	30.12	765.0	55.5	13.1	71	e.	6	2.7	.....	2 c	0	nw.	.....	0	0	clear.....	F. Z. Gosewisch
Key West, Florida	30.04	763.0	30.06	763.5	71.0	21.7	76	ne.	19	8.5	.....	0	4 s	.....	ne.	0.18	4.6	fair	L. M. Melbourne.
Kittyhawk, North Carolina	30.22	767.6	30.24	768.1	61	16.1	84	w.	11	4.9	.....	1 c;hz	0	.....	.....	0	0	clear.....	E. A. Beals.
Knoxville, Tennessee	29.27	743.4	30.31	769.9	53.3	11.8	98	n.	1	0.4	.....	2 k	fg.	.....	.....	0.55	14.0	clear.....	J. A. Cody.
La Crosse, Wisconsin	29.31	744.5	30.11	764.8	52	11.1	66	s.	3	1.3	.....	4 c	0	w.	.....	0.21	5.3	fair.....	S. C. Emery.
La Mesilla, New Mexico	26.04	661.4	29.92	760.0	52.7	11.5	67	calm	0	0	.....	3 c	2 s	.....	.....	0	0	fair.....	N. D. Lane.
Leavenworth, Kansas	29.19	741.4	30.10	764.5	58	14.4	70	s.	9	4.0	.....	0	0	.....	.....	0	0	clear.....	A. W. Browne.
Lewiston, Idaho	29.13	739.9	29.98	761.5	42	5.6	54	se.	1	0.4	.....	0	1 s	.....	.....	0	0	clear.....	W. Blake.
Little Rock, Arkansas	29.92	760.0	30.24	768.1	60	15.6	81	s.	1	0.4	.....	0	sk.	.....	.....	0	0	clear.....	W. U. Simmons.
Los Angeles, California	29.70	754.4	30.10	764.5	51.3	10.7	86	sw.	1	0.4	.....	.....	10 s	.....	calm	0	0	cloudy	E. F. Kubel.
Louisville, Kentucky	29.62	752.3	30.19	766.8	64	17.8	73	s.	5	2.2	.....	2 k	0	.....	.....	0.03	0.8	clear.....	H. C. Smyth.
Lynchburg, Virginia	29.62	752.3	30.33	770.4	60.5	15.8	76	ne.	1	0.4	.....	.....	10 n	.....	.....	0.03	0.8	light rain....	W. R. Bushby.
Madison, Wisconsin	29.18	741.2	30.22	767.6	42	5.6	92	ne.	3	1.3	.....	.....	10 s	.....	w.	0.02	0.5	cloudy.....	C. A. Shaw.
Marquette, Michigan	29.42	747.3	30.17	766.3	36	2.2	69	s.	14	6.3	.....	.....	10 s	.....	sw.	inap.	inap.	cloudy.....	J. Gilligan.
Mason, Texas	28.49	723.6	30.14	765.5	61.2	16.2	90	s.	2	0.9	.....	.....	10 s	.....	s.	0	0	cloudy.....	P. M. Wilson.
Memphis, Tennessee	29.92	760.0	30.26	768.6	63	17.2	73	se	5	2.2	.....	hz.	hz.	.....	.....	0	0	clear.....	D. T. Flannery.
Milwaukee, Wisconsin	29.46	748.3	30.23	767.8	41	5.0	73	e.	5	2.2	.....	4 c	1 ks	nw.	.....	0	0	fair.....	W. Line.

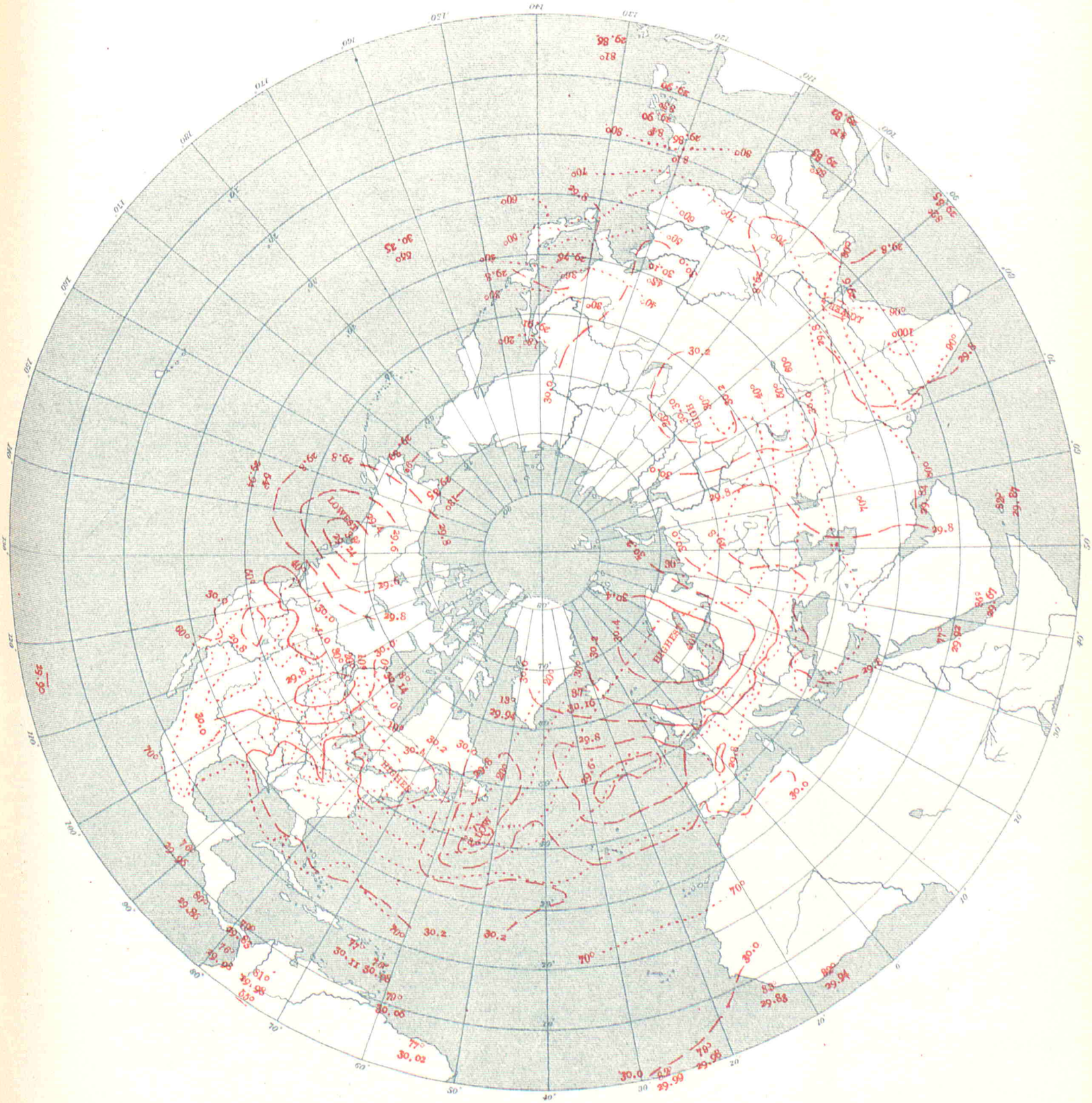
STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–01	0–10	0–10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Mobile, Alabama	30.22	767.6	30.26	768.6	60	15.6	84	n.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. D. Paxton.
Montgomery, Alabama	30.03	762.7	30.26	768.6	62	16.7	84	e.	2	0.9	.....	6 ck	0	e.	.....	0	0	fair	J. B. McLaughlin.
Moorhead, Minnesota	28.69	728.7	29.72	754.9	43.2	6.2	83	s.	20	8.9	.....	5 c	0	s.	.....	0	0	fair	H. Bessant.
Morgantown, W. Virginia	29.27	743.4	30.31	769.9	51.5	10.8	84	ne.	1	0.4	.....	.....	10 s	.....	n.	0.33	8.4	cloudy	G. C. Lewis.
Mt. Washington, N. H.	23.88	606.5	30.29	769.4	11.0	—11.7	66	n.	21	9.4	.....	0	1 s	.....	n.	0.54	13.7	clear	J. G. Linsley.
Nashville, Tennessee	29.72	754.9	30.26	768.6	57.0	13.9	83	calm	0	0	.....	3 ck	fg.	s.	.....	0	0	clear	L. A. Jesunofsky.
New Haven, Connecticut	30.35	770.9	30.47	773.9	35.5	1.9	65	ne.	11	4.9	.....	0	hz.	.....	.....	0.01	0.3	clear	J. H. Sherman.
New London, Connecticut	30.44	773.2	30.49	774.4	39	3.9	65	ne.	5	2.2	.....	0	0	.....	.....	0	0	clear	J. G. Lynch.
New Orleans, Louisiana	30.16	766.1	30.22	767.6	65.0	18.3	90	e.	5	2.2	.....	3 c	fg.	w.	.....	0	0	clear	S. Dunne.
Newport, Rhode Island	30.40	772.1	30.45	773.4	35.0	1.7	72	ne.	10	4.5	.....	0	0	.....	.....	0	0	clear	W. McGillivray.
New River, N. Carolina	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	C. C. Corbin.
New Shoreham, Rhode I'd.	30.42	772.7	30.45	773.4	34.8	1.6	69	ne.	22	9.8	.....	0	0	.....	.....	0	0	clear	W. Davis.
New York, New York	30.29	769.4	30.47	773.9	38.5	3.6	72	ne.	14	6.3	.....	0	0	.....	.....	0.02	0.5	clear	E. B. Garriott.
Norfolk, Virginia	30.25	768.3	30.28	769.1	54	12.2	74	ne.	14	6.3	.....	3 cs	hz.	nw.	.....	0	0	clear	J. T. Elker.
North Platte, Nebraska	26.88	682.7	29.84	757.9	58.6	14.8	72	ne.	8	3.6	.....	.....	10 s	.....	.....	0	0	cloudy	E. F. Brady.
Olympia, Washington T'y	30.03	762.7	30.07	763.8	35.0	1.7	90	n.	1	0.4	.....	.....	fg.	.....	calm	0.11	2.8	dense fog	J. Dascomb.
Omaha, Nebraska	28.78	731.0	29.99	761.7	63.0	17.2	63	s.	10	4.5	.....	0	8s;ks	....	nw.	0	0	cloudy	A. Pollak.
Ooglaamie, Pt. Barrow, Alas.	29.83	757.7	29.85	758.2	—13.4	—25.2	73	ssw.	2	0.9	.....	3 cs	3 s	.....	.....	0	0	fair	P. H. Ray.
Oswego, New York	30.12	765.0	30.46	773.7	37.6	3.1	76	ne.	2	0.9	.....	0	0	.....	.....	inap.	inap.	clear	S. W. Beall.
Palestine, Texas	29.68	753.9	30.24	768.1	59.0	15.0	90	se.	6	2.7	.....	5 cs	0	.....	.....	0	0	fair	L. M. Pindell.
Pensacola, Florida	30.23	767.8	30.26	768.6	60.3	15.7	87	ne.	6	2.7	.....	0	hz.	.....	.....	0	0	clear	M. McGauran.
Philadelphia, Pa	30.36	771.1	30.46	773.7	42	5.6	65	ne.	11	4.9	.....	0	hz.	.....	.....	0.18	4.6	clear	T. F. Townsend.
Pike's Peak, Colorado	17.73	450.3	30.01	762.2	20	— 6.7	70	sw.	32	14.3	.....	.....	10 ks	.....	sw.	0	0	cloudy	L. M. Dey.
Pioche, Nevada	23.84	605.5	29.83	757.7	46	7.8	29	s.	14	6.3	.....	6 k	0	s.	.....	0	0	fair	C. N. Kitchel.
Pittsburg, Pennsylvania	29.50	749.3	30.32	770.1	48.0	8.9	71	e.	6	2.7	.....	0	0	.....	.....	inap.	inap.	clear	J. H. Bryce.
Port Eads, Louisiana	30.20	767.1	30.21	767.3	67.6	19.8	93	ne.	22	9.8	.....	2 cs	hz.	w.	.....	0	0	clear	H. G. Christian.
Port Huron, Michigan	29.68	753.9	30.38	771.6	37.4	3.0	84	e.	3	1.3	.....	0	0	.....	.....	0	0	clear	W. O. Bailey.
Portland, Maine	30.42	772.7	30.46	773.7	31.0	— 0.6	57	ne.	12	5.4	.....	0	0	.....	.....	0	0	clear	D. C. Murphy.
Portland, Oregon	29.93	760.2	30.00	762.0	47.0	8.3	86	nw.	8	3.6	.....	.....	10 s	.....	nw.	0	0	cloudy	M. L. Hearne.
Portsmouth, N. Carolina	.....	.....	.....	.....	60	15.6	75	s.	10	4.5	.....	0	hz.	.....	calm	0.04	1.0	clear	F. P. Chaffee.
Prescott, Arizona	24.71	627.6	29.93	760.2	51	10.6	41	s.	5	2.2	.....	.....	10 s	.....	s.	0	0	cloudy	J. Mc N. Wright.
Provincetown, Mass	30.41	772.4	30.44	773.2	34	1.1	71	ne.	14	6.3	.....	0	1 s	.....	.....	0	0	clear	P. T. Jenkins.
Punta Rassa, Florida	30.11	764.8	30.12	765.0	66	18.9	81	ne.	15	6.7	.....	1 ck	hz.	sw.	.....	0.03	c.8	clear	W. J. Evans.
Red Bluff, California	29.51	749.5	29.88	758.9	52.7	11.5	91	s.	6	2.7	.....	.....	10 s	.....	se.	0	0	cloudy	J. M. Frantz.
Rio Grande City, Texas	29.87	758.7	30.11	764.8	65	18.3	93	calm	0	0	.....	.....	10 s	.....	calm	0	0	cloudy	W. H. Taylor.
Rochester, New York	29.77	756.1	30.46	773.7	36	2.2	79	se.	3	1.3	.....	0	sk.	.....	.....	0	0	dense smoke	A. T. Sherwood.
Roseburg, Oregon	29.43	747.5	29.99	761.7	46	7.8	83	calm	0	0	.....	.....	10 s	.....	w.	0	0	cloudy	J. J. Nanry.
Sacramento, California	29.83	757.7	29.91	759.7	52.0	11.1	93	s.	8	3.6	.....	.....	10 n	.....	.....	0.08	2.0	light rain	J. A. Barwick.
St. Louis, Missouri	29.58	751.3	30.20	767.1	64.8	18.2	63	sw.	7	3.1	.....	2 k	0	.....	.....	0	0	clear	J. H. Webber.
St. Paul, Minnesota	29.06	738.1	29.95	760.7	50.0	10.0	86	se.	25	11.2	.....	3 ck	4 ks	w.	se.	inap.	inap.	fair	P. F. Lyons.
St. Vincent, Minnesota	28.73	729.7	29.64	752.8	32	0.0	88	s.	5	2.2	.....	4 cs	0	calm	.....	0	0	fair	G. Kingsbury.
Salt Lake City, Utah	25.44	646.2	29.81	757.2	50	10.0	48	se.	3	1.3	.....	5 k	0	sw.	.....	0	0	fair	J. Craig.
San Antonio, Texas	29.44	747.8	30.14	765.5	65.0	18.3	93	e.	4	1.8	.....	.....	10 ks	.....	e.	0.46	11.7	cloudy	E. Lane.
San Diego, California	29.95	760.7	30.01	762.2	53.2	11.8	90	w.	3	1.3	.....	2 k	0	w.	.....	0.06	1.5	clear	A. C. Dobbins.
Sandusky, Ohio	29.63	752.6	30.33	770.4	43.5	6.4	74	se.	16	7.2	.....	0	0	.....	.....	0.04	1.0	clear	M. H. Perry.
Sandy Hook, New Jersey	30.44	773.2	30.48	774.2	39.0	3.9	73	ne.	22	9.8	.....	0	1 s	.....	ne.	0.05	1.3	clear	B. A. Blundon.
San Francisco, California	29.86	758.4	29.93	760.2	53	11.7	90	w.	1	0.4	.....	.....	10 s	.....	w.	0.03	0.8	cloudy	N. Gorom.
Santa Fé, New Mexico	23.19	589.0	29.95	760.7	52	11.1	40	e.	8	3.6	.....	4 c	3 s	sw.	sw.	0	0	fair	H. U. Jones.
Savannah, Georgia	30.20	767.1	30.29	769.4	61.5	16.4	80	calm	0	0	.....	0	0	.....	.....	0	0	clear	H. W. Ford.
Shreveport, Louisiana	29.98	761.5	30.22	767.6	60	15.6	87	s.	1	0.4	.....	hz.	fg.	.....	.....	0	0	dense haze	E. N. Meekins.
Silver City, New Mexico	24.19	614.4	29.87	758.7	42	5.6	48	s.	3	1.3	.....	3 k	0	s.	.....	0	0	clear	J. B. Wallace.
Sitka, Alaska	29.17	740.9	29.24	742.7	38.1	3.4	72	e.	44	19.7	.....	.....	10 s	e.	.....	0	0	cloudy	J. J. McLean.
Smithville, North Carolina	30.22	767.6	30.26	768.6	62	16.7	87	w.	9	4.0	.....	0	0	.....	.....	0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	27.92	709.2	29.98	761.5	36	2.2	92	sw.	1	0.4	.....	0	0	.....	.....	0	0	clear	D. Moore.
Springfield, Illinois	29.49	749.0	30.19	766.8	55.5	13.1	72	se.	7	3.1	.....	hz.	hz.	.....	.....	0	0	clear	T. B. Jennings.
Springfield, Massachusetts	30.35	770.9	30.48	774.2	39.8	4.3	59	n.	4	1.8	.....	0	0	.....	.....	inap.	inap.	clear	T. S. Outram.
Springfield, Mo	28.80	731.5	30.32	770.1	59	15.0	75	s.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. B. Marbury.
Stockton, Texas	27.00	685.8	30.03	762.7	59.5	15.3	93	se.	32	14.3	.....	.....	10 s	.....	se.	0	0	cloudy	J. O'Dowd.
Thatcher's Island, Mass	30.35	770.6	30.40	772.1	33.5	0.8	78	n.	18	8.0	.....	0	0	.....	.....	0.03	0.8	clear	G. Liebmann.
Toledo, Ohio	29.61	752.1	30.32	770.1	43	6.1	74	e.	14	6.3	.....	0	0	.....	.....	0	0	clear	A. Buell.
Tucson, Arizona	27.44	697.0	29.83	757.7	59	15.0	50	s.	2	0.9	.....	8 ck	0	.....	.....	0	0	cloudy	J. L. Whiteside.
Umatilla, Oregon	29.63	752.6	30.00	762.0	39.0	3.9	82	se.	3	1.3	.....	3 cs	0	.....	.....	0	0	clear	J. Daly.
Uvalde, Texas	29.16	740.7	30.13	765.3	66	18.9	93	se.	2	0.9	.....	.....	10 s	.....	se.	0	0	cloudy	E. C. Imlay.
Vicksburg, Mississippi	30.00	762.0	30.26	768.6	63	17.2	73	s.	1	0.4	.....	hz.	hz.	.....	.....	0	0	light haze	T. J. Kenan.
Visalia, California	29.55	750.6	29.92	760.0	50.5	10.3	90	se.	6	2.7	.....	.....	10 ks	.....	se.	0.34	8.6	cloudy	J. T. Cochran.
Washington, D. C.	30.28	769 1	30.40	772.1	52	11.1	72	ne.	7	3.1	.....	5 k	0	ne.	.....	inap.	inap.	fair	B. M. Purssell.
West Las Animas, Colorado	25.91	658.1	29.87	758.7	63	17.2	40	sw.	4	1.8	.....	0	9 s	.....	sw.	0	0	cloudy	J. Grover.
Wickenburg, Arizona	.....	.....	.....	.....	50.5	13.6	71	calm	.....	.....	0	.....	9 n	.....	se.	0	0	cloudy	H. A. Kremp.
Williamsport, Pa	29.83	757.7	30.44	773.2	40	4.4	73	calm	0	0	.....	.....	hz.	.....	.....	0.13	3.3	clear	B. F. Hough.
Wilmington, N. Carolina	30.19	766.8	30.25	768.3	63	17.2	78	w.	7	3.1	.....	hz.	sk.	.....	.....	0	0	dense haze	E. W. McLann.
Winnemucca, Nevada	25.33	643.4	29.73	755.1	39	3.9	82	s.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. R. Williams.
Yankton, Dakota	28.50	723.9	29.84	757.9	60	15.6	70	w.	5	2.2	.....	0	0	.....	.....	0	0	clear	J. H. Atfield.
Yuma, Arizona	29.71	754.6	29.86	758.4	61.4	16.3	51	nw.	8	3.6	.....	.....	10 s	.....	nw.	0	0	cloudy	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.02	559.3	.....	.....	55.0	12.8	77	e.	1	0.4	.....	4c;ck	2ks;s	n.	.....	0	0	fair	Joaquin Gomez.
Bridgetown, Barbados, W. I.	30.05	763.3	30.06	763.5	79	26.1	82	e.	.....	.....	.....	5 k	5 ks	e.	e	0	0	fair	J. A. Racker.
Buenaventura, U. S. C.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. I. Plume.
Guadeloupe, W. I.	29.96	761.0	29.98	761.5	76	24.4	87	e.	.....	.....	.....	2 k	2 ks	.....	.....	0	0	.....	B. Bigar.
Havana, Cuba, W. I.	30.01	762.2	30.05	763.5	72	22.2	84	ne.	1.2	0.5	.....	2 cs	5 ks	e.	e.	2.04	51.8	fair	A. Van Caneghem.
Kingston, Jamaica, W. I.	30.03	762.7	30.04	763.0	74.3	23.5	73	calm	0	0	.....	0	1 ks	.....	e.	0	0	fair	Robert Johnston.
Navassa	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	F. M. Everett.
Paramaribo, S. A.	30.02	762.5	30.02	762.5	77	25.0	91	e.	.....	.....	2	.....	10 n	e	e.	1.860	47.2	rainy	Dr. O. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.52	749.8	29.98	761.5	81	27.2	85	calm	.....	.....	0	.....	10 s	.....	.....	0	0	cloudy	Miss Flora A. Nichols.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	.....	.....	92	se.	.....	.....	2	0	d	.....	se.	0	0	clear	Earl Flint.
Santiago de Cuba, W. I.	30.03	762.7	30.05	763.3	75	23.9	81	calm	0	0	.....	.....	9 s	.....	n.	0	0	cloudy	Robert Mason.
York Factory, B. A.	30.08	764.0	30.14	765.5	— 8.0	—22.2	79	ne.	16	7.2	.....	0	0	.....	.....	0	0	clear	W. Wood.

STATIONS AND VESSELS.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
BRITISH NAVAL.																		
H. M. S. Agincourt, N. 36° 18′, W. 5° 01′	30.01	762.2	60	15.6	88	wsw.			3–5		4	wsw.						d. clouds.
H. M. S. Alert, S. 6° 09′ E. 53° 10′	29.84	757.9	85.2	29.6	71	nnw.			2–3		7							d. clouds.
H. M. S. Alexandra, N. 38° 31′, E. 15° 33′	29.99	761.7	62	16.7	66	nnw.			1		4	nnw.						d. clouds.
H. M. S. Bacchante, Jaffa, Egypt	29.70	755.9	64	17.8	89	sw.			4		5	wsw.				4	sw.	showery.
H. M. S. Cleopatra, N. 11° 00′, E. 55° 06′	29.89	759.2	78.5	25.8	90	ene.			2		3	ne.				1	ene.	d. clouds.
H. M. S. Comus, N 6° 10′ E. 130° 10′	29.87	758.7	82	27.8	95	ne.			1–2		3	ne.				3	ne.	d. clouds.
H. M. S. Daring, N. 17° 40′ E. 118° 50′	29.86	758.4	81	27.2		n.			2		3	w.						d. clouds.
H. M. S. Diamond, S. 37° 36′, E. 121° 28′	30.28	769.1	62	16.7	88	ene.			5		8	ne.				1	ene.	d. clouds.
H. M. S. Dido, N. 17° 00′, W. 61° 45′	30.10	764.5	77	25.0		e.			1–3		4	ne.						squally.
H. M. S. Dryad, N. 23° 40′, E. 58° 36′	29.84	757.9				nw.			1		2	nnw.				1	nw.	d. clouds.
H. M. S. Eclipse, S 15° 43′, E. 46° 20′			85	29.4	100	ssw.			1–2		3							d. clouds.
H. M. S. Espiegle, S. 34° 05′, E. 114° 08′	30.03	762.7	71	21.7	85	sse.			1		0					2	sse.	blue sky.
H. M. S. Fawn, N. 15° 22′ E. 42° 10′	29.67	753.6	84.5	29.2	68	sse			5		1						s.	blue sky.
H. M. S. Gannet, S. 33° 01′, W. 71° 37′	29.99	761.7	56.5	13.6	90	calm			0		10							misty.
H. M. S. Garnet, Montevideo, Uruguay	30.23	767.8	55	12.8	80	ne.			3		0							blue sky.
H. M. S. Inconstant, S. 27° 00′, E. 56° 20′	30.00	763.5	75	23.9	100	n.			3		2	n.				2	n.	d. clouds.
H. M. S. Iron Duke, N. 22° 16′ E. 114° 10′	29.80	758.4	72	22.2	100	calm			0		4	e.						d. clouds.
H. M. S. Lark, S. 11° 23′, E. 162° 27′	29.89	759.2	80.3	26.8		n.			2		8					4	n.	squally.
H. M. S. Liffey, Coquimbo, Chili	29.97	761.2	60	15.6		calm			0		8							d. clouds.
H. M. S. Magpie, N. 32° 44′, E. 129° 51′	29.78	756.4	61 7	16.5	96	sw.			1		10							misty.
H. M. S. Malabar, Bombay, India	29.78	756.4	83	28.3	91	w.			2		3	w.						d. clouds.
H. M. S. Nelson, Sydney, N. S. W	30.05	763.3	67	19.4	84	calm			0		0							blue sky.
H. M. S. Northampton, Bermuda, W. I.	30.20	768.6	65	18.3	70	wnw.			2		5	wnw.						d. clouds.
H. M. S. Rambler, St. Paul de Loando, Benguela,	29.85	758.2	81	27.2	95	nw.			1		5	calm						d. clouds.
H. M. S. Rocket, Esquimalt, Vancouver Id., B. C.	30.08	764.0	34	1.1		calm			0		2							d. clouds.
H. M. S. Serapis, N. 22° 18′ E. 37° 00′	29.92	760.0	77	25.0	69	ne.			3		2	ne.				2	n.	d. clouds.
H. M. S. Tamar, N. 37° 17′ E. 8° 50′	29.95	760.7	68.5	20.3	69	ene.			1		5							d. clouds.
H. M. S. Tenedos, N. 20° 22′ W. 73° 12′	30.05	763.3	76.5	24.7	84	ene.			2		6					2	ne.	d. clouds.
H. M. S. Thalia, S. 36° 52′, E. 4° 33′	30.47	773.9	59	15.0		sse.			4		10					3	ssw.	overcast.
H. M. S. Triumph, Valparaiso, Chili	30.00	762.0	56	13.3	93	calm			0		2	calm						misty.
H. M. S. Tyne, N 1° 31′, E. 103° 00′	29.82	757.4	81	27.2	84	n.			2–3		7	calm						misty.
PORTUGUESE NAVAL.																		
Rio Lima, Porto Praya, Cape Verd Islands	30.13	765.2	75.6	24.2	59	nne.			2		3		ne.			1		d. clouds.
Tamega, Macao, China	29.88	759.0	74.3	23.5	87	se.			2		0							
UNITED STATES NAVAL.																		
Navy Yard. Pensacola, Fla	30.19	766.8	62	16.7	83	n.	3	1.3			0			0	0			clear.
N. Yard, Portsmouth, N. H.	30.48	774.2	34	1.1	62	ne.	9	4.0			8		ne.	0	0			fair.
Naval Hospital, Yokohama, Japan	29.09	754.1	50.5	10.3	96	calm			0		10		w.	0.22	5.6			light rain.
Adams, N. 7° 03′, W. 79° 18′	29.73	755.1	74	23.3	95	n.			2		8		s.	0	0	sm'h		cloudy.
Alaska, Mollendo, Peru	29.92	760.0	65	18.3	89	calm			0		8			0	0	long		cloudy.
Alert, Nagasaki, Japan	29.66	753 4	65	18.3	94	wsw.			1		10		calm	0	0	sm'h		misty.
Alliance, Aspinwall, Panama	29.83	757.7	79	26.1	82	nne.			2		5		ne.	0	0	sm'h		fair.
Ashuelot, Nagasaki, Japan	29.80	756.9	60	15.6	100	wsw.			1		10		sw.					cloudy.
Brooklyn, Montevideo, Uruguay	30.23	767.8	56	13.3	87	nne.	8	3.6			0			0	0	sm'h		clear.
Colorado, New York, N. Y.	30.33	770.4	40	4.4	7	ne.	4	1.8			0			0.14	3.6			clear.
Enterprise, Curacoa, W. I*	29.97	761.2	79	26.1	82	e.			2–3		5							fair.
Essex, Cape Palmas, Liberia, Africa	29.94	760.5	82	27.8	83	nnw.			2		8					sm'h	w.	cloudy.
Franklin, Norfolk, Va	30.28	769.1	54	12.2	80	ne.	8	3.6			2		nw.	0	0			fair.
Galena, Malta, Mediterranean	29.98	761.5	64	17.8	89	ene.			2		2					sm'h		fair.
Independence, Mare Island, Cal.	29.77	756.1	52	11.1	93	nw.			2		8		nw.	0	0			threatening.
Kearsarge, St. Thomas, W. I.	30.09	764.3	77	25.0	73	ene.			2		5		ene.			sm'h		fair.
Lackawana, Callao, Peru*	29.87	758.7	66	18.9	100	s			1		10							cloudy.
Lancaster, Leghorn, Italy*	29.94	760.5	68	20.0	70	nw.			1		0			0	0			clear.
Marion, S. 33° 54′, E. 18° 24′	30.07	763.8	66	18.9	89	se.			6		2		e.	0	0	mod	se.	clear.
Michigan, Erie, Pa	30.22	767.6	38	3.3	100	e.			2		0							clear.
Minnesota, Newport, R. I.	30.45	773.4	37	2.8	62	ne.	4	1.8			2		calm					clear.
Monocacy, Kobe, Japan	29.75	755.6	58	14.4	94	ne.			1		10		calm					cloudy.
New Hampshire, Newport, R. I.	30.41	772.4	38	3.3	72	ne.			3		2			0	0	sm'h		fair.
Nipsic, Barcelona, Spain	29.90	759.4	60	15.6	82	sw.			3		8		sw.			sm'h		hazy.
Onward, Callao, Peru†	30.09	764.3	65	18.3	100	sse.			1		10		n.			long	w.	cloudy.
Palos, Kobe, Japan	29.74	755.4	56	13.3	100	calm			0		10		calm					drizzling.
Passaic, Washington, D. C.	30.41	772.4	51	10.6	100	ne.			2		8		ne.					fair.
Pensacola, Callao, Peru	29.98	761.5	66	18.9	89	se.	2	0.9			10		s.	0	0	sm'h		cloudy.
Powhatan, La Guayra, Venezula	30.03	762.7	78	25.6	73	ne.			1		2					light	s.	clear.
Portsmouth, Hampton Roads, Va	30.20	768.6	53	11.7	100	ne.			4		5		ne.			sm'h		fair.
Quinnebaug, Naples, Italy	29.96	761.0	63	17.2	72	sw.			4		5		sw.	0	0	sm'h		fair.
Ranger, Acapulco, Mexico*	29.87	758.7	79	26.1	78	calm			0		2		calm	0	0	sm'h		clear.
Richmond, Kobe, Japan*	29.65	753.1	60	15.6	94	calm			0		10		calm	7.90	200.7			cloudy.
Shenandoah, N. 12° 30′ W. 73° 00*	30.05	763.3	76	24.4	86	e.			4		0					mod.	ne.	clear.
St. Louis, League Island, Pa	30.67	779.0	40	4.4	73	ne.					0			0.10	2.5			clear.
Swatara, Kobe, Japan*	29.57	751.1	59	15.0	88	ene.	10	4.5			0							misty.
Tennessee, N. 31° 35′ W. 79° 44′*	30.33	770.4	71	21.7	100	n.			2		10		calm			sm'h		clear.
Vandalia, Port Royal, S. C.	30.43	772.9	63	17.2	94	wsw.	7	3.1			0			0	0	mod.		clear.
Wabash, Boston, Mass.	30.46	773.7	36	2.2	61	n.	1	0.4	1		0							clear.
Wachusetts, Sitka, Alaska	29.19	741.4	40	4.4	82	e.			6		10		n.	0	0			hazy.
Wyoming, Port Royal, S. C.	30.27	768.8	63	17.2	83	nw.	3	1.3			10		e.			mod.		overcast.
Yantic, N. 23° 54′, W. 84° 20′*	30.04	763.0	71	21.7	90	ene.			4–6		0			0	0			clear.
											8		ne.			mod.	ene.	squally.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.			Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Amount and kind.		Direction.						
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	Force.	0–10	0–10	Upper.	Lower.	Inch.	Mill.	Character.	Direction from.	
ALLAN LINE.																		
S. S. Circassian, N. 48° 25′, W. 36° 00′	30.20	767.1	31	—0.6	?	nw.			6		4		wnw.	6 h'r	6 h'r	3	nw	d. clouds.
S. S. Nova Scotian, Halifax, N. S.	30.16	766.1				wnw.			5		0							clear.
S. S. Polynesian, N. 43° 12′ W. 52° 46′.*	29.31	744.5	45	7.2		wsw.			7		8		wsw.	12 h'r	12 h'r	r'gh	wsw.	cloudy.
S. S. Scandinavian, N. 45° 26′, W. 42° 37′*	30.00	762.0	39	3.9		sse.			6		10		sse.	0	0	mod.	sse.	overcast.
S. S. Waldensian, N. 41° 52′, W. 49° 13′*	30.16	766.1	50	10.0		ssw.			6		10		ssw.	3 h'r	3 h'r	h'vy	ssw.	raining.
AMERICAN STEAMSHIP COMPANY.																		
S. S. British Crown, N. 46° 58′, W. 33° 08′†	30.11	764.8	44	6.7		wnw.			6		3		nw.	2 h'r	2 h'r	r'gh	nw.	clear.
S. S. Illinois, Philadelphia, Pa.	30.30	769.6	50	10.0	93	ne.			5		10		ne.					overcast.
S. S. Indiana, Liverpool, Eng..†	30.08	764.0	48	8.9	77	ese.			4		8?		ese.	0	0			clear.?
S. S. Ohio, Philadelphia, Penn†	30.37	771.4	42	5.6	100	n.			5		0							clear.
S. S. Pennsylvania, N. 47° 49′, W. 25° 56′†	29.67	753.6	51	10.6	72	se.			1		1		sse.			sm'h	s.	d. clouds.
ANCHOR LINE.																		
S. S. Assyria, N. 42° 24′, W. 61° 42′ *†	30.20	767.1	32	0.0		n.			7		8		n.	rain	rain	h'vy	n.	clearing.
S. S. Gallatin, N. 48° 18′, W. 13° 58′†	29.73	755.1				e.			1		2		sse.	0	0	sm'h	n.	fair.
S. S. India, N. 49° 14′, W. 7° 45′*	29.62	752.3	52	11.1	93	s.			3		0					mod.	ssw.	clear.
ATLAS LINE.																		
S. S. Ailsa, N. 24° 17′, W. 74° 56′†	30.06	763.5	71	21.7	95	ene.			3		10			3 h'r	3 h'r	mod.	ene.	hazy.
S. S. Alvo, N. 24° 50′, W. 74° 00′	30.14	765.5				e.			9		10		e.	3 h'r	3 h'r	r'gh	e.	squally.
S. S. Arden, N. 10° 40′. W. 71° 38′						ne.												fine.
S. S. Athos, Guayanilla, Porto Rico, W. I.	29.69	754.1				e.			3		2		e.	0	0		e.	clear.
BRITISH METEOROLOGICAL OFFICE.																		
Bk. Arran, N. 1° 32′ W. 23° 55′	29.98	761.5	78.5	25.8	89	ne.			1		7							d. clouds.
British Merchant, N. 2° 44′, E. 880 11′	29.85	758.2	82	27.8	87	nw.			2		5							d. clouds.
Caldew, N. 43° 22′, W. 28° 47′	29.83	757.7	52.1	11.2		nnw.			7		5							d. clouds.
S. S. Cipero, N. 49° 01′, W. 7° 12′	29.71	754.6	54.2	12.3	74	wsw.			2		1							blue sky.
Bk. Commewyne, N. 45° 54′, W. 31° 16′	29.69	754.1	50.9	10.5	66	nw.			6		8							d. clouds.
Bk. Corona, S. 0° 59′, W. 28° 15′	29.99	761.7	83	28.3	83	e.			2		4							d. clouds.
S. S. Gordon Castle, N. 10° 53′ E. 102° 06′	29.83	757.7	85	29.4	78	sw.			2–3		6							d. clouds.
Brig Hermine, N. 1° 28′, W. 26° 30′	29.99	761.7	82	27.8	73	ene.			1		6							d. clouds.
Rosetta, N. 37° 16′, E. 9° 05′	29.94	760.5	60	15.6	85	ene.			2		3							blue sky.
CROMWELL LINE.																		
S. S. Hudson, N. 34° 30′, W. 76° 05′†	30.27	768.8	61	16.1		sw.			6		1		sw.	2 h'r	2 h'r	mod.	s.	clear.
CUNARD LINE.																		
S. S. Scythia, N. 51° 02′, W. 15° 07′			54	12.2	87	ese.			3		2		sse.	2 h'r	2 h'r	mod.	ese.	clear.
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. France, N. 43° 04′, W. 44° 05′†	30.11	764.7	48.2	9.0		sw.			3				sw.	0	0	mod.	ssw.	covered.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Bohemia, N. 48° 27′, W. 16° 20′*†	29.62	752.3				nnw.			3		3		nnw.	0	0	sm'h	nnw.	fair.
S. S. Lessing, N. 41° 04′, W. 53° 46′	29.54	750.3	60	15.6		ssw.			10		10			rain	rain	long	sw.	cloudy.
S. S. Silesia, N. 51° 43′, E. 2° 30′ *†	30.05	763.3	50	10.0		se.			4-5				s.	0	0	4	se.	foggy.
S. S. Wieland, N. 42° 35′, W. 50° 07′	29.95	760.7	49	9.4		s.			6–7		10		ssw	4½h'r	4½h'r	6	ssw.	light rain.
MALLORY LINE.																		
S. S. Colorado, N. 34° 30′. W. 76° 05′†	30.24	768.1	66	18.9		sw.			6		3		wsw.	1 h'r	1 h'r	high	wsw.	clear.
MERCHANTS' EXPRESS LINE.																		
S. S. Hermod, N. 50° 06′, W. 22° 05′*†	29.35	745.5	50	10.0		wsw.			1		8		sw.	4 h'r	4 h'r	mod.	wnw	fair.
NATIONAL LINE.																		
S. S. England, N. 50° 22′, W. 17° 50′	29.61	752.1				ne.			4		8		ne.	0	0	mod.	ne.	cloudy.
S. S. Erin, N. 48° 36′, W. 20° 50′	29.63	752.6	54	12.2		var.			1		8		ene.	2 h'r	2 h'r	long	ene.	showery.
S. S. Holland, N. 40° 44′. W. 54° 49′	30.29	769.4	38	3.3		n.			6		10		ne.	2 h'r	2 h'r	cross	nw.	cloudy.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S Niagara, N. 34° 26′ W. 76° 18′†	30.28	769.1	53	11.7		sw.			3		0			1 h'r	1 h'r	sm'h		clear
S. S. Santiago, Jagua, Cuba, W. I.†	30.09	764.3	75	23.9		e.			5		8		wnw.	7 h'r	7 h'r	sm'h		fine.
NEW YORK, HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, Vera Cruz, Mexico.*†	30.08	764.0	75	23.9		s.			4		5		nnw.	0	0			hazy.
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Alvena, N. 23° 05′ W. 74° 24′†	29.97	761.2	75	23.9		w.			5								e.	fine.
S. S. City of Washington, N. 21° 17′, W. 90° 02′ *†	30.00	762.0	75	23.9		e.			3								w.	fine.
S. S. Lepanto, N. 46° 34′, W. 32° 45′*	29.92	760.0	40	4.4		nw.			9								con.	squally.
S. S. New York, N. 28° 45′, W. 79° 40′*†	30.25	768.3	72	22.2		ene.			3								ene.	clear.
S. S. P. Caland, N. 49° 51′ W. 5° 54′	29.73	755.1	65.0	18.3		ssw.			5							4	s.	
S. S. W. A. Scholten, N. 41° 11′, W. 60° 33′	30.09	764.3	43	6.1		n.			6							mod.		
NORTH GERMAN LLOYD.																		
S. S. Bismarck, N 50° 34′, E. 0° 10′†	29.90	759.4	51.8	11.0		ene.			5		0			0	0	mod.	ene.	hazy.
S. S. Hohenzollern, S. 9° 54′, W. 34° 25′*	29.95	760.7	72.5	22.5		ne.			2–3		5?		ene.	0	0	sm'h	e.	clear.?
S. S. Kronprinz F. Wilhelm, N. 48° 35′, W. 27° 40′	29.61	752.1	46.4	8.0		s.			3		10			24 h'r	24 h'r	3	e.	covered.
S. S. Main, N 44° 20′, W. 42° 25′*	30.03	762.7	41.0	5.0		wsw.			3–4		10		wsw.	0	0	light	wsw.	covered.
S. S. Mosel, N. 49° 32′. W. 11° 22′	29.59	751.6	49	9.4		sse.			4		6		s.	1 h'r	1 h r	sm'h		showery.
S. S. Ohio, N. 35° 23′, W. 48° 27′	30.30	769.6				s.			3		5		wsw.	0	0	sm'h	nne.	fair.
S. S. Rhein, N. 49° 48, W. 14° 32′	29.50	749.3				ssw.			2		3		s.	0	0	mod.	nnw.	clear.
S. S. Salier, N. 53° 54′, E 7° 49′	30.21	767.3	47.3	8.5		e.			6		2		e.	0	0	r'gh	e.	fair.
S. S. Strassburg, N 49° 27′, W. 17° 06′	29.59	751.6	57.5	14.2	84	nw.			2–3		4		nw.	0	0	mod.	n.	fair.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Belgic, N. 42° 31′. W. 148° 41′†	29.84	757.9	54	12.2	87	sw.			5		5		w.	0	0	mod.	sw.	fair.
S. S. Oceanic, N. 35° 12′, E. 164° 24′*	30.25	768.3	55	12.8	74	sse.			3		6?		s.			4	ssw.	cloudy.?
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, New York, N. Y†	30.35	770.9				ne.			3		0			0	0			smoky.
S. S. Seminole, N. 40° 50′, W. 73° 10′†	30.47	773.9	38	3.3	81	ne.			5		2		se.	0	0	long	ese.	fair.
OREGON IMPROVEMENT COMPANY.																		
S. S. Mississippi, Port Townsend, Wash. Ter.†	30.13	765 3	43	6.1	83	w.			1		0							clear.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. City of Chester, N. 47° 48′, W. 124° 50′*†	30.13	765.3	44	6.7		nw.			2		3		nw.			mod.	nw.	clear.
S. S. Oregon, San Francisco, Cal†..	29.87	758.7	54	12.2	93	nw.			1		10		nw.					misty.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, San Francisco, Cal.†	29.88	758.9	52	11.1	86	calm			0		10		w.					misty.
S. S. Idaho, Victoria, B. C.†	30.00	762.0	45	7.2	76	sse.			4		5		se.					fair.
S. S. State of California, San Francisco, Cal.†	29.89	759.2	52	11.1	93	calm			0		10							cloudy.
S. S. Victoria, N. 47° 37′, W. 124° 40′†	30.06	763.5	44	6.7	84	wnw.			2		10			drizl	drizl	sm'h		light rain
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, Sydney, N. S. W.	30.03	762.7	65	18.3	84	nw.			1		8		nw.					drizzling.
S. S. City of New York, S. 31° —′, E. 179° 30′†	29.89	759.2	72	22.2	95	se.			6		10		s.	h'vy	h'vy	h'vy	se.	cloudy.
S. S. City of Pekin, Panama, Panama..†	29.98	761.5	76	24.4	86	nw.			1							sm'h		hazy.
S. S. City of Sydney, S. 9° 13′, W. 168° 35′†	29.96	761.0	80	26.7	91	nne.			4		8		ne.	0	0	r'gh	n.	cloudy.
S. S. Clyde, N. 9° 13′, W. 84° 25′†	29.86	758.4	80	26.7	82	sse.			1		5		se.	1 h'r	1 h'r	light	s.	clear.
S. S. Colon, N. 29° 32′ W. 74° 16′†	30.30	769.6	70	21.1		ese.			3		5		ese.	0	0	mod.	ese.	fair.
S. S. South Carolina, San Jose, Guatamala, C. A †	29.93	760.2	76	24.4	100	nnw.			2		10		nw.	3 h'r	3 h'r	sm'h		heavy rain.
QUEBEC STEAM SHIP COMPANY.																		
S. S. Muriel, N. 19° 05′, W. 63° 54′	30.10	764.5	77	25.0		ene.			3		0			0	0	long		fair.
RED STAR LINE.																		
S. S. Belgenland, Antwerp, Belgium.†	30.04	763.0	56	13.3	94	e.			3		2		e.	0	0			clear.
S. S. Nederland, N. 49° 41′, W. 8° 30′*†	30.35	770.9	52	11.1		ssw.			3		2		ssw.	0	0	mod.	sw.	fair.
S. S. Rhynland, N. 49° 06′, W. 15° 08′	29.58	751.3	52	11.1	66	wnw.			2		5		wnw.	0.1	3.	long	nne.	fair.
S. S. Switzerland, N. 40° 15′, W. 66° 52′†	30.24	768.1				nnw.			4		10		nnw.	11 h'r	11 h'r	cross	nnw.	cloudy.
S. S. Vaderland, N. 40° 16′, W. 64° 38′	30.11	764.8	41	5.0	91	n.			4		10		n.	2 h'r	2 h'r	mod.	nnw.	cloudy.
S. S. Waesland, N. 40° 57′ W. 46° 46′	30.09	764.3	59	15.0		s.			6		8		ssw.	hail	hail	mod.	ssw.	threatening.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.			Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Amount and kind.		Direction.						
								Force.	Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ROTTERDAM LINE.																		
S. S. Schiedam, N. 48° 08′, W. 33° 25′*	29.79	756.7	46.2	7.9	90	wnw.			1		5?		nw.	2 h'r	2 h'r	high	nw.	cloudy?.
THINGVALLA LINE.																		
S. S. Thingvalla, Copenhagen, Denmark†	30.41	772.4	47.3	8.5		e.			2		2		e.	o	o			clear.
WARREN LINE.																		
S. S. Iowa, N. 41° 51′, W. 52° 35′*†	29.76	755.9	45	7.2		w.			7		10		w.	7 h'r	7 h'r	hv'y	ssw.	cloudy.
WHITE STAR LINE.																		
S. S. Britannic, N. 40° 52′, W. 61° 18′†	30.01	762.2	41	5.0		n.			6		10		nne.	1 h'r	1 h'r	mod.	nw.	overcast.
S. S. Celtic, Off Ballycottin, Ireland†	29.68	753.9	50	10.0		se.			7		10		s e.	20 h'r	20 h'r	high	se.	misty.
S. S. Germanic, N. 48° 26′, W. 32° 50′†	29.81	757.2	50	10.0		nw.			6		2		nw.	sh'rs	shr's	high	nw.	d. clouds.
WILSON LINE.																		
S. S. Otranto,, N. 48° 32′, W. 24° 13′†	29.70	754.4	58	14.4		calm			0		8		wnw.	c	o	sm'h	ne.	fair.
WINSOR LINE.																		
S. S. Catherine Whiting, Delaware Bay, Del.†	30.44	773.2				ne.			2		1		nw.	o	o			
S. S. Norman, N. 39° 05′, W. 74° 40′	30.36	771.1				ene.			2		10		calm.			h'vy	s.	cloudy.
MISCELLANEOUS.																		
Sch. Addie Fuller, N. 27° 15′ W. 83° 00′†	30.31	769.9	70	21.1	79	ene.			4		0					short		clear.
Bk. Adelaide, Rio de Janeiro, Brazil*†	29.80	756.9	82	27.8		wsw.							wsw.					
Schr. Ajax, N. 26° 01′, W. 94° 41′†	30.15	765.8				e.			3		2		e.	o	o	mod	e.	fair.
Bk. Alpha, N. 37° 00′, W. 69° 50′†	30.13	765.3				ne.			4		5		n.	o	o			fair.
Bk. Antioch, S. 28° 30′, W. 37° 25′*†	29.90	759.4	73	22.8		sse.			7		10		se.	3 h'r	3 h'r	r'gh	sse.	overcast.
Schr. Asa Eldridge, Charlotte Harbor,†	30.22	767.6				ne.			3		2		ese.	o	o			hazy.
Bk. Aureola, N. 31° 20′, W. 40° 50′*†	30.34	770.6	69	20.6		ene.			5		10		e.	8 h'r	8 h'r	hv'y	nne.	threatening
Schr. Annie M. Smull, S. 36° 18′, W. 2° —′*†	30.40	772.1	62	16.7		ne.							ne.	o	o	long	sw.	clear.
Bk. Bergenseren, N. 36° 18′ W. 18° 05′†	30.06	763.5				w.			1				w.	o	o	2	nw.	clear.
Bk. Celestina, S. 9° 08′, W. 30° 38′*†	29.96	761.0				var.			2		10		se.	hv'y	hv'y	con.	var.	cloudy.
Bk. Champion, N. 38° 01′, W. 69° 00′†	30.04	763.0				ne.			7		10		ene.	o	o	r'gh	nne.	
S. S. Compton, N. 29° 42′, W. 79° 28′†	30.31	769.9				ne.			5		4		ne.	o	o	mod.	ne.	fair.
Bk. E. L. Pettingill, N. 3° 40′, W. 115° 57′†	29.90	759.4				var.			1		5		ene.	3 h'r	3 h'r	sm'h	ne.	
S. Enoch Train, N. 49° 28′ W. 10° 18′*	29.51	749.5				sw.			3		3		sw.	sh'rs	sh'rs	long	nw.	fine.
Ship Exporter, N. 32° 10′, W. 38° 10′*†	30.30	769.6				e.			3				e.	6 h'r	6 h'r	long	e.	heavy rain.
Ship Festina Lente, N. 54° 06′, W. 30° 42′*	29.66	753.4	46	7.8		s.			3		10		sw.	5 h'r	5 h'r	mod.	ene.	raining.
U.S.F.C.S.S.Fish Hawk, Washington, D. C.†	30.47	773.9	53	11.7	79	nne.			3		6		e.	o	o			fair.
S. Grecian, S. 23° 06′ W. 34° 57′*†	30.05	763.3	77	25.0		nnw.			2		o			o	o	sm'h		clear.
Bk. Freya, Annapolis, Md			51	10.6		e.			5		o			o	o			fine.
Bk. Granville, S. 34° 46′, W. 30° 00′*†	30.59	777.0				sse.			1					o	o	long	sw.	clear.
Schr. Hattie G. McFarland, N. 31° 11′, W. 80° 37′*†	30.32	770.1	70	21.1		calm			0		3		nw.	o	o	sm'h	se.	fair.
Schr. Henry Denison, Port Antonio, Jamaica†	30.02	762.5				ese.			2–3		4		ne.	o	o			fair.
S. Hedwig, N. 52° 52′, W. 28° 00′	29.63	752.7	49.6	9.8	89	sse.			5		6		sse.	o	o	3	ese.	fine.
John L. Thomas, N. 35° 39, W. 75° 00′*†	30.36	771.1				ne.					4		n.	o	o	mod.	ne.	fine.
Bg. John Wesley, Sagua La Grande, Cuba, W. I.†	30.01	762.2	77	25.0		calm			0		9			2 h'r	2 h'r			cloudy.
Bk. Jona, N. 39° 20°, W. 72° 29′*†	30.70	779.8				ene.			3				e.	1 h'r	1 h'r	mod.	var.	cloudy.
Bkt. Josephine, Aspinwall, Panama*†	30.04	763.0	82	27.8	67	nne.			3		1		nne.	o	o			clear.
Bk. Liberia, N. 32° 56′, W. 37° 15′*	30.13	765.3	65	18.3	83	sw.			5		10		ne.	o	o	high	n.	cloudy.
Light House Tender, Laurel, Key West, Fla.†	30.10	764.5	71	21.7		ne.			6		4		ne.	4 h'r	4 h'r	hv'y	ene.	clear.
S. S. Malabar, Cardiff, Eng.*†	30.02	762.5				nw.			2		0			o	o			fine.
Bg. Medina, N. 26° 25′. W. 76° 30′†	30.21	767 3				e.			4		10		ese.			mod.	e.	squally.
S. S. Nebo, S. 6° 20′, W. 34° 20′*†	29.88	758.9				une.			1		1		nne.	o	o	sm'h		clear.
Bk. Peppina, N. 40° 00′, W. 10° 08′*†	29.96	761.0	58	14.4	76	nw.			3		o					mod.	nw.	clear.
Bk Pilgrim, S. 42° 30′, E. 150° 40′*†	30.35	770.9				se.			4		5		se.	shr's	shr's	long	sw.	fair.
Bg. Potomac, N. 15° 11′, W. 58° 08′*†	30.00	762.0				e.			3				e.			mod.	e.	clear.
S. S. Radnorshire, N. 39° 48′, W. 69° 23′*†	30.35	770.9				ne			4		10		ne.	o	o	long	ene.	overcast.
S. Salisbury, N. 34° 06′ W. 52° 05′*†	30.31	769.8	59.4	15.2	87	sse.			3		1			o	o	mod.	s.	clear.
Bkt. Spotless, N. 14° 18′, W. 32° 09′*†	30.00	762.0				e.							se.			mod.	ne.	fine.
Bk. Stella, S. 56° 48′, W. 64° 59′*	30.23	767.8	41.5	5.3	95	wsw.			4		8		wsw.	o	o	mod.	sw.	overcast.
S. S. Victoria J Peed, Inagua Island, W. I.*†	30.01	762.2				ese.			7		8							
S. Wm. Woodbury, N. 53° 05′, W. 22° 50′*†	29.80	756.9	48	8.9		ne.			4				ne.			light	ne.	cloudy.

International Chart I. April 8, 1882. Isobars and Isotherms.



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON APRIL 4, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
ALGERIAN.																			
Nemours	.....	.....	29.99	761.8	70.5	21.4	79	w.	.....	.....	3	.....	0	.....	.....	0	0	clear	Moiroud.
Algiers	.....	.....	29.96	761.0	61.5	16.4	61	w.	.....	.....	5	.....	2	.....	.....	0.063	1.6	fair	Nicolas.
La Calle	.....	.....	29.94	760.5	65.1	18 4	73	n.	.....	.....	1	.....	4	.....	.....	0.059	1.5	cloudy	Fonfrède.
Tunis	.....	.....	29.91	759.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.08	764.0	62.6	17.0	45	nw.	.....	.....	2	.....	2	.....	.....	0	0	fair	Dumas.
Tebessa	.....	.....	30.02	762.5	50.7	10.4	63	sw.	.....	.....	2	.....	2	.....	.....	inap.	inap.	fair	Derché.
Geriville	.....	.....	.....	.....	63.3	17.4	27	n.	.....	.....	5	.....	1	.....	.....	inap.	inap.	very fair	Lonchamp.
Laghouat	.....	.....	30.08	764.1	68.0	20.0	55	w.	.....	.....	3	.....	1	.....	.....	0	0	very fair	Abraham.
Biskra	.....	.....	30.02	762.6	75.2	24.0	25	nw.	.....	.....	3	.....	2	.....	.....	0	0	fair	Malau.
AUSTRALIAN.																			
Melbourne, Victoria	30.08	764.0	30.17	766.3	55.0	12.8	81	se.	18	8.0	.....	.....	10	.....	.....	0	0	squally	R. L. J. Ellery.
AUSTRO-HUNGARIAN.																			
Agram	29.39	746.5	29.93	760.3	61.5	16.4	74	ne.	.....	.....	2	.....	8	.....	.....	0.083	2.1	.....	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.36	745.8	30.14	765.5	52.5	11.4	43	e.	24.8	11.1	.....	.....	2	.....	.....	0	0	.....	Dr. Wierzbiski.
Eperies	29.13	739.9	30.00	762.0	55.0	12.8	43	n.	.....	.....	3	3 cs	0	.....	.....	0	0	.....	Julius Mikolik.
Gratz	28.71	729.3	29.96	761.0	54.7	12.6	76	e.	.....	.....	2	.....	10	.....	.....	0.177	4.5	.....	Andreas Rospini.
Hermannstadt	28.55	725.2	29.99	761.7	52.5	11.4	73	se.	.....	.....	3	.....	10	.....	.....	0	0	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.60	726.3	29.94	760.4	52.0	11.1	81	one.	.....	.....	2	.....	8	.....	.....	0	0	cloudy	The Staff.
Lemberg	29.14	740.1	30.15	765.8	45.1	7.3	50	e.	.....	.....	1	.....	9	.....	.....	0	0	.....	Dr. T. Stanecki.
Pola	29.80	756.8	29.91	759.6	63.9	17.7	50	ese.	.....	.....	3	.....	2	.....	.....	0	0	.....	I. R.Hydrographic Office.
Szathmar	29.51	749.5	29.97	761.2	55.9	13.3	91	ne.	.....	.....	2	.....	10	.....	.....	0	0	.....	Joseph Midlinszky, S. J.
Szegedin	29.67	753.6	29.95	760.7	56.8	13.8	74	s.	.....	.....	2	.....	10	.....	.....	0	0	.....	Karl Stancel.
Trieste	29.81	757.2	29.91	759.8	66.2	19.0	40	ne.	.....	.....	1	.....	3	.....	.....	0	0	.....	Rieder.
Vienna	29.31	744.4	30.02	762.6	54.7	12.6	70	se.	.....	.....	1	.....	10	.....	.....	0	0	.....	I. R. Central Met. Obs'y.
BRITISH.																			
Aberdeen	30.25	768.3	30.35	770.9	45.5	7.5	80	se.	23	10.3	.....	.....	2	.....	.....	0	0	squally	W. Boswell.
Armagh, Observatory	29.87	758.7	30.12	765.0	45.9	7.7	93	ese.	5	2.2	.....	.....	10	.....	.....	.....	.....	raining	S. Call.
Bidston, Liverpool Obs'y	.....	.....	30.09	764.3	54.0	12.2	59	e.	25	11.2	.....	.....	1	.....	.....	.....	.....	misty	John Hartnup.
Bolton, Sharples	29.58	751.3	30.12	765.0	51.7	10.9	50	ese.	12	5.4	.....	.....	1	.....	.....	.....	.....	blue sky	Thomas Mackereth.[A.S.
Bradford, Yorkshire	29.76	755.9	30.16	766.1	48.7	9.3	66	e.	.....	.....	2	.....	6	.....	.....	0	0	d. clouds	J.McLandsborough, F. R
Bridgetown, Barbadoes	30.01	762.2	30.04	763.0	81.0	27.2	58	ne.	.....	.....	2	.....	1	.....	.....	.....	.....	d. clouds	Corpl.J.Surgenor, A. H.C.
Cardington	.....	.....	30.35	770.9	54.0	12.2	51	e.	.....	.....	2.0	.....	0	.....	.....	.....	.....	blue sky	John McLaren.
Chatham, School M. E	29.95	760.7	30.08	764.0	49.9	9.9	73	ne.	.....	.....	3	.....	3	.....	.....	.....	.....	d. clouds	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	29.80	756.9	30.03	762.7	53.0	11.7	70	ese.	.....	.....	1	.....	7	.....	.....	.....	.....	overcast	The Staff.
Fort Napier, Natal	27.78	705.6	29.99	761.7	80.0	26.7	58	e.	.....	.....	1	.....	2	.....	.....	.....	.....	blue sky	Pvt. E. K Annis, A.H.C.
Free Town, Sierra Leone	29.69	754.1	29.92	760.0	78.3	25.7	75	w.	.....	.....	1	.....	3	.....	.....	.....	.....	blue sky	Sergt. John Robinson.
Gibraltar, Mediterranean	29.96	761.0	30.01	762.2	66.2	19.0	74	w.	.....	.....	3	.....	5	.....	.....	.....	.....	d. clouds	Opl. O. Baldwin.
Glasgow, Observatory	29.99	761.7	30.19	766.8	51.8	11.0	72	e.	.....	.....	3	.....	6 k	.....	.....	.....	.....	d. clouds	Harry Urquhart,Asst.
Greenwich, Royal Obs'y	29.90	759.4	30.08	764.0	51.1	10.6	75	e.	.....	.....	4	.....	1	.....	.....	.....	.....	blue sky	The Staff.
Guernsey	29.73	755.1	30.03	762.7	50.5	10.3	90	nnw.	.....	.....	1	.....	10	.....	.....	.....	.....	overcast	A. Collenette, F. M. S.
Kew, Observatory	30.03	762.7	30.07	763.8	51.3	10.7	56	e.	30	13.4	.....	.....	2	.....	.....	.....	.....	hazy	The Staff.
Leicester, Museum	29.85	758.2	30.10	764.5	54.5	12.5	42	se.	.....	.....	2	.....	1	.....	.....	.....	.....	blue sky	J. C. Smith.
Malta, Mediterranean	29.83	757.7	29.90	759.4	66.8	19.3	69	n.	.....	.....	2	.....	2	.....	.....	.....	.....	blue sky	I. H. Whysall.
Nassau, Bahamas	30.16	766.1	30.20	767.1	73.2	22.9	89	se.	.....	.....	2	.....	10	.....	.....	.....	.....	overcast	C. S. Duncombe.
Oscott, St. Mary's College	29.57	751.1	30.10	764.5	53.5	11.9	48	e.	.....	.....	2	.....	2	.....	.....	.....	.....	d. clouds	John Mac Email.
Oxford, Radcliffe Obs'y	29.84	757.9	30.06	763.5	52.7	11.5	53	e.	.....	.....	4	.....	0	.....	.....	.....	.....	squally	The Staff.
Plymouth	29.93	760.2	30.01	762.2	51.2	10.7	86	calm	.....	.....	0	.....	10	.....	.....	.....	.....	drizzling	John Merrifield.
Sandwick Manse, Orkneys	.....	.....	30.30	769.6	46.3	7.9	85	se.	38	17.0	.....	.....	0	.....	.....	.....	.....	blue sky	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.82	757.4	29.89	759.2	48.2	9.0	65	ne.	.....	.....	3	.....	10	.....	.....	.....	.....	gloomy	W. H. Lyne.
Sheffield	29.89	759.2	30.17	766.3	52.0	11.1	52	ne.	.....	.....	2	.....	1	.....	.....	0	0	blue sky	W. F. Cooper.
Silloth Rectory	30.13	765.3	30.16	766.1	54.4	12.4	54	e.	.....	.....	5	.....	0	.....	.....	0	0	blue sky	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	30.16	766.1	51.2	10.7	53	e.	21	9.4	.....	.....	7	.....	.....	.....	.....	d. clouds	Rev. S. J. Perry.
Stratfield Turgiss	29.82	757.4	30.04	763.0	55.5	13.1	53	e.	.....	.....	3	.....	0	.....	.....	.....	.....	blue sky	Rev.C.H.Griffiths,F.M.S.
Truro, Royal Institution	29.97	761.2	30.01	762.2	62	16.7	66	s.	.....	.....	4	.....	6	.....	.....	.....	.....	d. clouds	W. Newcombe.
Valencia, Observatory	29.95	760.7	29.98	761.5	55.6	13.1	68	sse.	20	8.9	.....	.....	4	.....	.....	.....	.....	d. clouds	The Met'g'l Office.
CANADIAN.																			
Bathurst, N. B	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.21	767.3	30.26	768.6	25	— 3.9	82	s.	7	3.1	.....	0	5 s	.....	.....	0	0	fair	H. J. Cundall, C. E.
Chatham, N. B*	30.07	763.8	30.13	765.3	27	— 2.8	88	s.	9	4.0	.....	2 k	8 ks	s.,	s.	0	0	cloudy	G. A. Blair.
Father Point, Quebec*	29.65	753.1	29.68	753.9	35	1.7	89	s.	50	22.4	.....	2 ck	8 s	w.	w.	0	0	threatening	J. McWilliams.
Fort Garry, Manitoba*	29.61	752.1	30.57	776.5	— 8	—22.2	100	n.	8	3.6	.....	0	0	.....	.....	0	0	clear	James Stewart.
Halifax, N. S*	30.22	767.6	30.35	770.9	32	0.0	78	s.	10	4.5	.....	8 k	0	sw.	.....	0	0	fair	A. Allison.
Kingston, Ontario*	29.62	752 3	29.96	761.0	41	5.0	79	s.	24	10.7	.....	5 c	2 s	w.	.....	0	0	fair	A. P. Knight, M. A.
Montreal, Quebec*	29.71	754.6	29.92	760.0	35	1.7	82	s.	6	2.7	.....	8 cs	0	w.	.....	0	0	cloudy	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.12	739.6	29.82	757.4	45	7.2	93	sw.	9	4.0	.....	.....	1c h	.....	sw.	0.11	2.8	light rain	Rev. R. Mosley.
Port Dover, Ontario	29.30	744.2	29.99	761.7	49	9.4	85	sw.	12	5.4	.....	5 ck	0	w.	.....	0	0	fair	H. Morgan.
Port Stanley, Ontario	29.34	745.2	30.00	762.0	42	5.6	96	s.	5	2.2	.....	5 ck	hz.	w.	.....	0	0	hazy	M. Payne.
Quebec, Quebec*	29.65	753.1	29.99	761.7	27	— 2.8	88	calm	.....	.....	0	0	5 s	.....	.....	0	0	fair	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.29	744.0	29.76	755.6	34	1.1	88	calm	0	0	.....	.....	10 s	.....	sw.	0.13	3.3	.....	W. H. McIntyre.
Saugeen, Ontario*	29.17	740.9	29.67	758.7	53	11.7	86	sw.	19	8.5	.....	.....	10 ks	.....	.....	0.39	9.9	heavy rain	
St. Andrews, N .B	30.17	766.3	30.22	767.6	30	— 1.1	90	sw.	15	6.7	.....	5 k	5 k	sw.	.....	0	0	cloudy	
Sydney, C. B*	30.31	769.9	30.38	771.6	18	— 7.8	87	sw.	12	5.4	.....	10 ck	0	nw.	.....	0	0	fair	T. C. Hill, C. E.
Toronto, Ontario*	29.55	750.6	29.94	760.5	41	5.0	92	calm	0	0	.....	5 cs	2 k	w.	w.	0	0	cloudy	Magnetic Observatory.
Yarmouth, N. S*	30.30	769.6	30.37	771.4	31	— 0.6	88	sw.	18	8.0	.....	.....	10 k	.....	sw.	0	0	cloudy	Lt. F. E. Wilmot, R. N.
Sub-series.																			
St. Johns, Newfoundland	30.15	765.8	30.42	772.7	23	— 5.0	.....	sw.	3	1.3	.....	0	0	.....	.....	1.50	38.1	fair	John Delany.
CAPE COLONY.																			
Cape St.Francis Lt.House	30.17	766.3	30.20	767.1	71.0	21.7	88	e.	5.6	2.5	.....	0	8 s	.....	.....	0	0	.....	John Duthie.
Cape Town, C. G. H. Obs'y	29.95	760.7	29.98	761.5	77.8	25.4	59	s.	15	6.7	.....	0	0	.....	.....	0	0	.....	The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Chinese (Sub-series).																			
Hankow	30.28	769.1	30.56	776.2	46.9	8.3	50	e.			3		10						N. Titoushkin.
Zi-Ka-Wei, near Shanghai	30.32	770.0	30.34	770.6	38.1	3.4	91	w.	3.8	1.7		10 ck	0			0.35	8.9		
																1.083	27.5	covered	M. Marc Dechevrens, S.J.
Danish.																			
Copenhagen	30.40	772.1	30.45	773.3	43.3	6.3	62	e.	22	10			0						Oversergent Fischer.
Fanöe	30.37	771.4	30.39	771.9	48.0	8.9		ene.			6		0						Overloerer Lauridsen.
Godthaab, Greenland	29.64	752.8	29.68	753.9	12.2	—11.0	97	calm			0		10					snowing	S. Kleinschmidt.
Stykkisholm, Iceland	29.93	760.3	29.98	761.4	39.2	4.0	75	se.			4		8						A. O. Thorlacius.
Thorshavn	30.24	768.2	30.28	769.1	45.7	7.6	91	se.	16	7			10						Overloerer Bergh.
Vestervig	30.35	770.9	30.44	773.2	45.7	7.6	58	ene.			6		0						Loerer Oesterbol.
French.																			
Agen, Normal School	29.40	746.8	30.04	763.0	53.2	11.8	76	calm			0	2 c	kn		w.	0.504	12.8		M. Labroue, Director.
Alençon, Normal School	29.40	746.7	29.91	759.7	53.6	12	87	n.			1		n	s.	s.	0	0		M. Nicot, Director.
Arras, Engineer School	29.74	755.5	30.00	762.1	53.1	11.7	57	e.			1		ks			0.181	4.6		Capt. Bertrand, Dir.
Avignon, Normal School	29.81	757.2	29.89	759.2	66.4	19.1	54	sw.			1		5		s.	0	0	cloudy	M. Giraud, Director.
Bar-sur-Seine	29.37	746.0	29.91	759.8	60.4	15.8	62	s.			1		6			0.126	3.2	cloudy	M. Saillard, Director.
Beauvais, Normal School	29.72	754.8	29.98	761.4	54.7	12.6	57	e.			2		2			0	0	slightly cl'dy	M. Frère Eugène Marl.
Besançon, Normal School	28.97	735.8	29.84	758.0	59.9	15.5	66	ne.			1	0	1 cn		n.	0	0	clear	M. Gobin, Director.
Bordeaux, Observatory	29.73	755.1	29.99	761.8	56.3	13.5	67	nw.			1		8		nnw.	0.587	14.9	almost cov'd	M. Rayet, Director.
Bourges, Normal School	29.39	746.4	29.98	761.4	51.4	10.8	78	w.			1		k		w.	0	0		M. Postel, Director.
Brest, Naval Observatory	29.76	756.0	30.01	762.2	65.5	18.6	66	calm			0		4			0	0		M. de Kermaree, Dir.
Caen, Normal School	29.87	758.8	29.95	760.7	58.3	14.6	72	nnw.			1		8		e.	0	0	very cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.59	751.6	29.90	759.5	61.5	16.4	41	n.			1		0			0	0	clear	M. Jadot, Director.
Charleville, Normal School	29.45	747.9	29.95	760.7	57.6	14.2	34	ne.			1		0			0	0	clear	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.50	725.4	29.89	759.2	60.8	16.0	46	n.			1	0	8 k		s.	0	0	¾ covered	M. Alluard, Director.
Cluny, Normal School	29.07	738.3	29.93	760.1	63.5	17.5	50	ssw.			1					0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.08	738.7	29.95	760.8	55.2	12.9	45	ene.			2	0	0			0	0	clear	Dr. Coulet, Director.
Gap, Normal School	27.39	695.8	29.87	758.8	62.2	16.8	47	s.			1	0	2 kn		se.	0	0		M. Jeangirard, Director.
Gréasque, du. Rhone	28.80	731.5	29.91	759.8	61.7	16.5	52	n.			2		7		nw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.13	739.9	29.93	760.1	61.2	16.2	62	ese.			1	2 ck	0			0.673	17.1	slightly cl'dy	M. Ablard, Director.
Guéret, Normal School	28.35	720.1	29.92	760.0	57.9	14.4	57	sw.			3		kn		w.	0	0		M. Rivoire, Director.
Lamballe, Normal School	29.72	754.9	29.99	761.8	53.6	12	74	n.			1		8		n.	0.138	3.5	very cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.41	747.1	29.98	761.4	56.5	13.6	80	wsw.			1		5			0	0	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	29.91	759.8	30.02	762.4	60.8	16.0	77	s.			1		2	sw.	n.	0	0	¼ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.86	733.1	29.89	759.3	64.2	17.9	40	nw.			1	0	5 k			0	0	fair	M. André, Director.
Mans, Normal School	29.66	753.4	29.97	761.3	54.5	12.5	77	s.			4		8		se.	0	0	very cloudy	M. Piboen, Director.
Marseille, Observatory	29.65	753.2	29.92	760.0	59.0	15.0	68	sw.			3		7		e.			sprinkling	M. Stephan, Director.
Montlouis l'instituteur	24.72	627.8	29.56	750.8	42.1	5.6	65	nw.	9.4	4.2			2	w.					M. Cave, for Dr. Fines.
Montpellier, Normal School	29.81	757.2	29.94	760.4	66.6	19.2	53	sw.			1		2		sw.	0	0	slightly cl'dy	M. Galzin, Director.
Nancy, Normal School	29.16	740.7	29.94	760.5	54.3	12.4	41	nne.			1	1 c	0			0	0	clear	M. Hasse, Director
Nantes, Observatory	29.85	758.1	30.01	762 2	57.7	14.3	65	nnw.			1–3		9k; kn		ne.	0.201	5.1		Dr. Fines, Director.
Perpignan, Observatory	29.87	758.7	29.98	761.6	59.0	15.0	49	e.	16.8	7.5			6			0.197	5.0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.05	534.6			21.2	— 6.0		sw.			1		5		sw.	0.252	6.4	cloudy	Gen'l de Nansouty, Dir.
Privas, Normal School	28.91	734.3	29.95	760.8	66.2	19	72	s.			1		1		se.	0	0	clear	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.05	636.3			40.3	4.6	81	w.			2	0	8 k			0	0	¾ covered	M. Alluard, Director.
Rochefort, Naval Obs'y	29.98	761.6	30.02	762.4	59.0	15.0	78	w.			1		10		wnw.	0	0	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.76	756.0	29.98	761.6	58.3	14.6	58	n.			1		5	s.	se.	0	0	cloudy	M. Mouillot, Director.
Rodez, Normal School	27.87	707.9	30.08	763.9	47.5	8.6	89	nw.			1		10			0.04	1.	covered	M. Serger, Director.
Rouen, Normal School	29.92	760.0	29.97	761.2	59.4	15.2	61	ene.			1		0			0	0	clear	M. Brotier.
Saint Maur, Observatory	29.78	756.3	29.94	760.5	57.7	14.3	59	ene.			2		1		se.	0	0		M. Renou, Director.
Toulouse, Observatory	29.32	744.7	30.04	763.1	52.3	11.3	85	nw.			1		10	nw.		0.622	15.8	covered	M. Baillard, Director.
Versailles, Observatory	29.45	747.9	29.94	760.4	57.6	14.2	55	ne.			3					0	0		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.65	753.2	29.95	760.6	58.8	14.9	58	ene.			2		1		ene.	0	0		M. Marié Davy, Director
German.																			
Bamberg	29.16	740.7	30.02	762.4	52.2	11.2	55	sw.			1	0	6 k		wsw.	0.016	0.4	light rain	Prof. Dr. Hoh.
Berlin	30.00	762.0	30.18	766 5	54.7	12.6	39	e.			6		0			0	0		Prof. Dr. Arndt.
Breslau	29.66	753.3	30.19	766.9	51.6	10.9	43	ene			2		3	se.		0.004	0.1		Royal University Obs'y.
Carlsruhe	29.54	750.3	29.98	761.5	51.1	10.6	52	ne.			1		1	w.		0	0		Albert Senz.
Cassel	29.30	744.1	30.00	762.1	44.2	6.8	86	n.			2		6	nne.		0.024	0.6		Dr. H. Möhl.
Frankfort on the Main	29.05	753.0	30.01	762.3	49.5	9.7	63	ne.			1		7			0	0		Physical Society.
Friedrichshafen	28.53	724.7	29.98	761.4	51.1	10.6	81	sw.			2		10	ne.		0	0		Wilhelm, Chief Tel.
Hamburg	30.15	765.7	30.24	768.1	49.5	9.7	57	ene.			6		4			0	0	hazy	E. Preller.
Kiel	30.29	769.3	30.30	769.7	44.1	6.7	70	ene.			4		5			0	0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.65	753.2	30.08	764.0	47.5	8.6	78	e.			4		9	se.		0.339	8.6		H. Leppig, Asst.
Magdeburg	29.91	759.8	30.11	764.7	46.0	7.8	75	ne.			1		10 ks		e.	0.154	3.9		Dr. Assmann.
Memel	30.39	771.9	30.44	773.1	49.3	9.6	38	ne.			4	0	0					clear	Issermann.
Munich	28.14	714.7	30.00	761.9	49.6	9.8	70	calm			0		9	w.		0.012	0.3		Central Station.
Neufahrwasser	30.40	772.1	30.41	772.5	43.0	6.1	75	ne.			4		0			0	0		A. Lothes.
Neustadt, Palatinate	29.46	748.2	29.98	761.5	51.6	10.9	64	ne.			1		3			0	0		Dicknether.
Stuttgart	29.03	737.4	29.93	760.3	50.0	10.0	56	se.			1		7	w.		0	0		Prof. Dr. Schoder.
Wustrow	30.33	770.3	30.35	770.9	45.3	7.4	89	ne.			5	0	3 k			0	0		Profs. Brandes & Reimer
Greek.																			
Athens	29.48	748.8	29.87	758.7	64.2	17.9		n.			5.0	6 k				0	0		Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.78	756.3	29.83	757.6	77.7	25.4	78	w.	37.0	16.5			6	sw.		0	0	misty	
Deesa	29.27	743.4	29.73	755.1	93.5	34.2	24	wsw.	9.9	4.4			6	w.		0	0	d. clouds	
Bombay	29.74	755.5	29.78	756.4	86.2	30.1	58	nw.	17.0	7.6			0			0	0	blue sky	
Poona, Yarrowda	27.90	708.6	29.69	754.0	95.9	35.5	16	wnw.	27.0	12.1			2	wsw.		0	0	d. clouds	
Belgaum	27.23	691.5	29.72	754.8	83.8	28.8	53	sw.	14.0	6.3			0			0	0	misty	
Lahore	29.02	737.2	29.77	756.1	78.9	26.1	43	n.	3.5	1.6			1c			0	0	overcast	
Roorkee	28.79	731.3	29.68	753.9	82.8	28.2	13	nw.	3.2	1.4			7			0	0		
Agra	29.17	740.8	29.72	754.8	91.2	32.9	19	w.	4.6	2.1			4		w.	0	0		
Nagpur	28.63	727.1	29.63	752.5	99.5	37.5	13	w.	3.6	1.6			8		w.	0	0	d. clouds	
Jubbulpore	28.37	720.5	29.69	754.2	89.7	32.1	22	nnw.	4.0	1.8			0			0	0	blue sky	
Lucknow	29.30	744.3	29.67	753.6	91.1	32.8	42	wnw.	7.7	3.4			6			0	0	overcast	
Allahabad	29.35	745.4	29.65	753.2	91.5	33.1	13	w.	5.1	2.3			0			0	0	blue sky	
Patna	29.46	748.2	29.64	752.8	90.6	32.6	13	wnw.	8.9	4.0			0			0	0	blue sky	
Hazaribagh	27.66	702.4	29.60	751.9	91.3	32.9	21	nw.	14.4	6.4			0			0	0	blue sky	
Cuttack	29.56	750.7	29.64	752.8	91.3	32.9	35	ssw.	2.1	0.9			0			0	0	blue sky	
Calcutta, Alipore	29.56	750.8	29.58	751.3	92.0	33.3	66	sse.	8.0	3.6			0			0	0	blue sky	
Dhubri	29.40	746.6	29.51	749.5	88.7	31.5	18	wnw.	3.7	1.6			0			0	0	blue sky	
Chittagong	29.61	752.0	29.70	754.3	80.7	27.1	81	sw.	9.4	4.2			0			0	0	blue sky	
Sibsagar	29.20	741.8	29.54	750.2	77.1	25.2	89	sw.	8.6	3.8			10	sw.	sw.	0.43	10.9	d. clouds	
Jeypore	28.31	719.0	29.72	754.9	89.7	32.1	19	nw.	5.5	2.5			7		nw.	0	0	d. clouds	
Zanzibar, Africa	29.78	756.4			86.2	30.1	69	s.	6.7	3.0			8		se.	0	0	gloomy	
Bellary	28.24	717.3			99.8	37.7	13	se.	3.1	1.4		4 ck	0			0	0	d. clouds	
Trichinopoly	29.46	748.3			99.1	37.3	25	e.	1	0.4			0			0	0	blue sky	
Italian.																			
Udine	29.51	749.6	29.92	760.0	64.9	18.3	41	calm	0	0			3			0	0		Prof. Giovanni Clodig.
Milan	29.41	747.0	29.93	760.1	64.0	17.8	41	s.	3.1	1.4			2			0	0		Prof. Schiaparelli.
Padua	29.81	757.1	29.92	759.9	64.4	18.0	51	ese.	8.7	3.9			2			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.00	736.7	29.91	759.6	62.8	17.1	47	ese.	2.5	1.1			6	nne.		0	0		Prof. P. F. Denza.
Genoa	29.75	755.7	29.94	760.5	59.9	15.5	68	sw.	4.9	2.2			0			0	0		Prof. G. M. Garibaldi.
Mondovi	27.99	711.0	29.91	759.8	57.7	14.3	39	wnw.			2		2			9	0		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
ITALIAN.—Continued.																			
Pesaro	29.86	758.5	29.91	759.7	59.0	15.0	54	n.	7.4	3.3	.....	.....	7	se.	.....	0	0	.....	Prof. Luigi Guidi.
Florence	29.66	753.4	29.91	759.8	62.6	17.0	45	w.	.....	.....	2	.....	3	.....	.....	0	0	.....	Prof. Costantino Pitter.
Leghorn	29.80	757.0	29.89	759.2	59.5	15.3	70	sw.	1.3	0.6	.....	.....	9	.....	.....	0	0	.....	Prof. P. Monte.
Rome	29.76	755.8	29.93	760.2	61.9	16.6	55	ssw.	1.3	0.6	.....	.....	10	.....	.....	0	0	.....	Prof. P. S. Ferrari.
Lecce	29.65	753.0	29.90	759.4	66.6	19.2	53	nnw.	7.4	3.3	.....	.....	3	.....	.....	0	0	.....	Prof. C. de Giorgi.
Cosenza	29.02	737.1	29.90	759.4	62.6	17.0	74	wnw.	3.8	1.7	.....	.....	4	w.	.....	0	0	.....	Prof. D. Conti.
Cagliari	29.66	753.3	29.85	758.2	59.4	15.2	81	se.	.....	.....	4	.....	10	.....	.....	1.032	26.2	.....	Prof. A. Pacinotti.
Palermo	29.68	753.9	29.93	760.2	62.2	16.8	53	ne.	6.3	2.8	.....	.....	1	.....	.....	0	0	.....	Prof. G. Ciacciatore.
Syracuse	29.86	758.4	29.90	759.5	63.1	17.3	78	ese.	9.8	4.4	.....	.....	10	.....	wnw.	0.039	1.0	.....	Prof. Vincenzo Guiliano.
Sub-series.																			
Naples, S. R	29.40	746.8	29.92	760.0	60.6	15.9	68	sw.	1.3	0.6	.....	.....	10	.....	.....	0	0	.....	Prof. T. Brioschi.
Stelvio	22.04	559.9	.....	.....	32.4	0.2	69	se.	.....	.....	2	.....	8	.....	.....	0	0	misty	Prof. P. F. Denza.
Valdobbia	22.08	560.7	.....	.....	33.6	0.9	70	e.	.....	.....	2	.....	10	.....	.....	0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Aomori	29.48	748.8	29.51	749.5	44.0	6.7	88	n.	1.4	0.6	.....	.....	10 n	.....	.....	0.092	2.3	covered	K. Ogawa.
Hakodate	29.45	748.0	29.46	748.3	46.0	7.8	93	se.	9.6	4.3	.....	.....	10	.....	.....	0.235	6.0	raining	
Hiroshima, I. M. Obs'y	29.79	756.6	29.81	757.2	56.4	13.6	72	wnw.	9.5	4.2	.....	ck	10 n	.....	.....	0	0	.....	K. Sasaki.
Kanazawa	29.63	752.6	29.74	755.4	53.2	11.8	96	wsw.	11.5	5.1	.....	.....	10 n	.....	.....	1.445	36.7	raining	S. Endo.
Kioto	29.56	750.8	29.73	755.1	58.0	14.4	96	s.	7.7	3.4	.....	.....	10 n	.....	.....	1.005	25.5	raining	M. Tojima.
Kochi	29.77	756.1	29.79	756.6	62.0	16.7	60	nw.	26.5	11.4	.....	.....	10 ks	.....	sw.	0.025	0.6	.....	
Nagasaki, I. M. Obs'y	29.83	757.7	30.04	763.0	48.1	8.9	73	n.	4.8	2.1	.....	.....	10 n	.....	.....	0.110	2.8	raining	S. Takehayashi.
Niigata	29.64	752.8	29.68	753.9	52.0	11.1	97	wsw.	10.1	4.5	.....	.....	10 n	.....	.....	0.520	13.2	.....	
Nobiru	29.55	750.6	29.57	751.1	51.4	10.8	97	nnw.	3.8	1.7	.....	.....	10 n	.....	.....	0.070	1.8	raining	H. Midzushina.
Supporo	.....	.....	.....	.....	36.6	2.6	90	e.	19.8	8.8	.....	.....	10	.....	.....	0.502	12.8	covered	
Tokei Obs'y, Yeddo	29.44	747.8	29.50	749.3	69.3	20.7	82	ssw.	33.6	15.0	.....	6 c	0	sw.	.....	0	0	fair	The Staff.
Wakayama	29.73	755.1	29.78	756.4	58.2	14.6	94	ene.	0.6	0.3	.....	.....	10 n	.....	.....	0.440	11.2	raining	Y. Kuwamuea.
MAURITIUS.																			
Mauritius Observatory	29.73	755.1	29.92	760.0	79.9	26.6	66	e.	14.5	6.5	.....	1 cs	4 ks	.....	se.	0	0	fair	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.73	602.7	29.95	760.7	58.6	14.8	75	ne.	.....	.....	.....	.....	2 k;s	e.	e.	0	0	gloomy	Vicente Fernandez.
Leon	24.41	620.0	30.22	767.6	57.2	14.0	76	sw.	.....	.....	1	7 c	0	sw.	.....	0	0	dense fog	Prof. M. Leal.
Mazatlan	29.70	754.4	29.96	761.1	65.5	18.6	97	e.	1.6	0.8	.....	.....	mist	.....	.....	0	0	misty	F. Quijano, U. E.
Mexico, Central Obs'y	23.10	586.7	30.21	767.4	49.1	9.5	77	calm	0	0	.....	0	0	.....	.....	0	0	fine	The Staff.
Morelia	24.12	612.5	30.21	767.4	58.8	14.9	74	se.	.....	.....	4	0	0	.....	.....	0	0	clear	M. Tena, M. D.
Pabellon, Aguascalientes	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	M. V. de Leon, M. E.
Puebla, Catholic Institute	23.39	594.0	30.25	768.4	44.6	7.0	88	calm	0	0	.....	0	0	.....	.....	0	0	clear	Prof. P. Spina.
San Luis Potosi	24.15	613.4	30.27	768.9	55.4	13.0	72	ese.	.....	.....	1	0	0	.....	.....	0	0	foggy	G. Barroeta, M. D.
Zacatecas	22.59	573.6	30.25	768.3	52.6	11.5	94	.....	.....	.....	.....	5	0	.....	.....	0	0	½ clouded	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.09	764.3	30.09	764.3	52.3	11.3	.....	ene.	.....	.....	5	.....	.....	.....	.....	0	0	.....	
Groningen	30.15	765.9	30.21	767.3	49.1	9.5	.....	ne.	.....	.....	5	.....	.....	.....	.....	0	0	.....	
Helder	30.17	766.4	30.17	766.4	46.8	8.2	.....	ne.	.....	.....	4	.....	.....	.....	.....	0	0	.....	
Hellevoetsluis	30.08	764.0	30.08	764.0	52.1	11.1	63	e.	.....	.....	3	.....	.....	.....	.....	0	0	.....	
Utrecht	30.08	764.1	30.13	765.3	52.3	11.3	54	ene.	.....	.....	5	.....	2	.....	.....	0	0	lightly cld'y	H. van der Brink.
NORWEGIAN.																			
Bergen	30.48	774.1	30.54	775.7	46.8	8.2	37	nw.	2	1	.....	.....	0	.....	.....	0	0	.....	
Brono	30.55	775.9	30.59	776.9	43.9	6.6	49	nne	4	2	.....	.....	0	.....	.....	0	0	.....	
Christiania	30.44	773.1	30.59	776.9	50.7	10.4	47	se.	4	2	.....	.....	0	.....	.....	0	0	.....	
Gjæsvær	30.37	771.4	30.39	772.0	36.5	2.5	.....	wsw.	.....	.....	7	.....	10	.....	.....	.....	.....	.....	
Lodingen	30.54	775.8	30.59	777.0	35.6	2.0	87	wsw.	.....	.....	2	.....	0	.....	.....	.....	.....	.....	
PORTUGUESE.																			
Angra, Azores	.....	.....	.....	.....	56.8	13.8	58	se.	11.2	5.0	.....	.....	3	.....	.....	0	0	.....	Dr. J. A. Sampaio.
Campo Major	28.97	735.9	29.98	761.4	55.8	13.2	51	ssw.	5.6	2.5	.....	.....	10	.....	.....	0	0	.....	Dr. A. M. R. dos Santos.
Funchal, Maderia	30.10	764.6	30.19	766.8	64.4	18.0	71	se.	.....	.....	.....	.....	3	.....	.....	0	0	.....	Capt. D. A. de Cunha.
Lisbon, Observatory	29.54	750.4	29.91	759.6	54.1	12.3	99	s.	19.9	8.9	.....	.....	10	.....	.....	0.547	13.9	raining	The Staff.
Ponta Delgada, Azores	30.19	766.7	30.26	768.5	63.0	17.2	52	s.	7.4	3.3	.....	.....	4	.....	.....	0	0	.....	
Saint Paul de Loando	29.75	755.6	29.95	760.8	71.2	21.8	87	e.	0.7	0.3	.....	.....	10	.....	.....	0.472	12.0	.....	
Serra da Estrella	25.09	637.4	29.97	761.1	32.4	0.2	100	se.	29.3	13.1	.....	.....	10	.....	.....	.....	.....	foggy	
RUSSIAN.																			
Akmolinski	28.63	727.1	29.74	755.4	30.4	— 0.9	92	ssw.	27	12	.....	.....	10 n	.....	.....	0	0	.....	Major K. Lasarew.
Archangel	30.56	776.2	30.58	776.7	22.6	— 5.2	59	n.	13	6	.....	0	0	.....	.....	0	0	.....	Capt. Sselliwerstow.
Astrakhan	29.76	756.0	29.68	753.9	48.9	9.4	37	nnw.	7	3	.....	0	1	.....	.....	0	0	.....	Capt. Wisganow.
Barnaul	29.41	747.0	29.92	760.9	38.8	3.8	65	sw.	9	4	.....	.....	8	.....	.....	0	0	.....	Meteorological Obs'y.
Dorpat	30.25	768.4	30.51	774.9	37.2	2.9	51	ne.	13	6	.....	0	1 k	.....	.....	0	0	.....	Observatory.
Ekaterinburg	28.32	719.4	29.31	744.4	28.2	— 2.1	75	ne.	11	5	.....	.....	10	.....	.....	.....	.....	snowing	Meteorological Obs'y.
Kasan	29.28	743.6	29.55	750.6	30.9	— 0.6	81	n.	16	7	.....	.....	10	.....	.....	0	0	.....	Observatory.
Kertch	29.82	757.5	29.84	758.0	42.3	5.7	64	ne.	11	5	.....	0	3 k	.....	.....	0	0	.....	Lagorio & Sastyrex.
Kieff	29.37	746.0	30.02	762.6	39.6	4.2	52	n.	16	7	.....	c	10ks;n	.....	.....	0	0	.....	Observatory.
Lugan	29.55	750.6	29.76	755.9	42.4	5.8	48	wnw.	13	6	.....	.....	9	.....	.....	0.004	0.1	.....	Meteorological Obs'y
Moscow	29.44	747.8	29.95	760.6	28.0	— 2.2	87	ne.	7.8	3.5	.....	.....	10 s	.....	.....	0.075	1.8	heavy snow	Meteorological Obs'y.
Nikolaiev	29.94	760.4	30.01	762.2	49.5	9.7	44	nne.	9	4	.....	.....	10ks;n	.....	.....	0	0	.....	Capt. Kurdakow.
Nikolaievsk, on the Amoor	29.64	752.9	29.73	755.1	22.6	— 5.2	71	calm	0	0	.....	.....	10	.....	.....	0	0	.....	Lieut. Iwanow.
Pekin, China	30.04	762.9	30.18	766.5	46.9	8.3	24	nw.	4	2	.....	0	0	.....	.....	0	0	.....	Physical Observatory
St. Petersburg	30.52	775.1	30.53	775.5	30.6	— 0.8	46	ne.	16	7	.....	0	1 ks	.....	.....	0	0	.....	Central Physical Obs'y
Ssemipalatinsk	29.27	743.5	29.94	760.5	43.9	6.6	65	e.	4	2	.....	0	0	.....	.....	0	0	.....	Major Lasaren.
Tashkend, Laboratory	28.17	715.5	29.69	754.1	68.2	20.1	33	calm	0	0	.....	.....	0	.....	.....	0.024	0.6	.....	Teich, A. M.
Tiflis	28.23	717.0	29.63	752.6	54.5	12.5	66	nw.	13	6	.....	0	8 n	.....	.....	0.272	6.9	light rain	Physical Observatory
Vladivostok	29.33	745.0	29.40	746.7	31.3	— 0.4	100	sw.	16	7	.....	0	7 k	.....	.....	0.268	6.8	.....	
Warsaw	29.84	757.8	30.27	768.8	47.1	8.4	44	ene.	11	5	.....	0	1 k	.....	.....	.....	.....	.....	Astronomical Obs'y
Wilna	29.89	759.1	30.32	770.2	45.0	7.2	47	n.	11	5	.....	.....	5	.....	.....	0	0	light clouds	Berg, Assistant.
Yeniseisk	29.63	752.5	29.92	760.0	35.4	1.9	44	e.	4	2	.....	.....	4	.....	.....	0	0	.....	M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	29.81	757.2	29.91	759.8	62.6	17.	61	sw.	3.8	1.7	.....	.....	7	.....	.....	0.150	3.8	.....	Antonio Rave, Director.
Bilbao, Met. Obs'y	29.94	760.5	30.00	762.0	65.5	18.6	48	se.	2.5	1.1	.....	2	3	n.	.....	0.055	1.4	cloudy	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.01	686.1	30.00	762.1	50.7	10.4	57	s.	4.7	2.1	.....	.....	3	.....	.....	0.035	0.9	lightly cl'dy	Domingo Martin.
Madrid, Royal Obs'y	27.77	705.4	30.00	762.0	56.5	13.6	49	sw.	9.4	4.2	.....	.....	10	.....	.....	0	0	covered	The Staff.
Murcia, Met. Obs'y	29.81	757.2	29.95	760.8	73.8	23.2	39	wsw.	4.3	1.9	.....	1	4	ene.	.....	0	0	cloudy	Olayo Diaz, Director.
Santiago, Met. Obs'y	28.92	734.5	29.82	757.5	50.7	10.4	69	se.	11.9	5.3	.....	.....	10	.....	.....	.....	.....	covered	R. Gil Vallanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I	29.97	761.2	30.04	762.9	70.3	21.3	92	e.	1.1	0.5	.....	10cp;s	0	wsw.	.....	0.646	16.4	cloudy	Benito Vines, S. J.
Manilla, Philippine Islands	29.86	758.4	29.92	759.9	83.3	28.5	74	e.	5.1	2.3	.....	6 cs	1 s	.....	e.	0	0	fair	F. Faura, S. J.
San Fernando, Naval Obs'y	30.03	762.8	30.13	765.3	61.3	16.3	58	calm	0	0	.....	4	5	w.	w.	0.153	3.9	.....	Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	30.01	762.2	30.10	764.5	75.9	24.4	89	se.	8.5	3.8	.....	2 s	6 k	ce.	se.	0.047	1.2	cloudy	Manuel Maeu.
Tuguegarao, Philippine Id's	29.82	757.4	29.95	760.7	80.8	27.1	72	n.	10.1	4.5	.....	0	2 ck	.....	nw.	0	0	fair	José L. Yrastorza.
SWEDISH.																			
Haparanda	30.69	779.5	30.73	780.5	31.3	— 0.4	70	s.	.....	.....	2	.....	0	.....	.....	0	0	.....	
Umea	30.64	778.2	30.69	779.5	44.2	6.8	67	sw.	.....	.....	2	.....	0	.....	.....	0	0	.....	
Hernosand	30.69	779.5	30.74	780.8	40.1	4.5	63	e.	.....	.....	2	.....	0	.....	.....	0	0	.....	
Stockholm	30.42	772.6	30.60	777.1	43.5	6.4	51	ene.	.....	.....	4	.....	0	.....	.....	0	0	.....	
Wisby	30.47	774.0	30.53	775.5	39.2	4.0	84	ne.	.....	.....	4	.....	0	.....	.....	0	0	.....	
Sub-series.																			
Upsala	30.51	774.9	30.60	777.1	62.1?	16.7?	48	ne.	11.4	5.1	.....	.....	0	.....	.....	0	0	.....	S. G. Fineman.
SWISS.																			
Geneva	28.50	723.9	29.92	759.9	57.6	14.2	58	n.	.....	.....	1	.....	.....	.....	.....	0	0	cloudy	The Observatory

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
TURKISH.																			
Constantinople	.....	.....	29.94	760.4	46.2	7.9	69	n.	27	12.0	.....	.....	10	.....	n.	0.024	0.6	.....	The Observatory.
Valona	.....	.....	29.97	761.1	64.8	18.2	.....	nw.	.....	.....	1	.....	0	.....	.....	0	0	clear	A. Bertrand.
Sub-aeries.																			
Beirut, Lee Obs'y, Syria	.....	.....	29.76	755.9	63.0	17.2	86	sw.	.....	.....	3	cs	10 n	.....	sw.	0.835	21.2	.....	Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	30.17	766.3	30.25	768.3	43	6.1	74	s.	20	8.9	.....	0	8 ks	.....	s.	0	0	cloudy	J. O. Barnes.
Alpena, Michigan	29.27	743.4	29.96	761.0	44	6.7	83	nw.	16	7.2	.....	.....	10 s	.....	w.	0.08	2.0	cloudy	Jas. J. Fitzgerald.
Atlanta, Georgia	29.15	740.4	30.34	770.6	58.2	14.6	92	e.	7	3.1	.....	0	hz.	.....	.....	0.27	6.9	clear	H. Hall.
Atlantic City, New Jersey	30.38	771.6	30.39	771.9	40.3	4.6	82	se.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	Jas. M. Watson.
Augusta, Georgia	30.17	766.3	30.36	771.1	64.0	17.8	84	calm	0	0	.....	0	hz.	.....	.....	0	0	clear	John Healy.
Baltimore, Maryland	30.37	771.4	30.42	772.7	43	6.1	83	s.	5	2.2	.....	.....	10s;fg	.....	s.	0	0	cloudy	Robert Seyboth.
Barnegat, New Jersey	30.37	771.4	30.39	771.9	39.8	4.3	87	s.	10	4.5	.....	.....	10 s	.....	sw.	0	0	cloudy	Chas. F. Merritt.
Bismarck, Dakota	28.49	723.6	30.36	771.1	18	— 7.8	87	e.	9	4.0	.....	6 k	0	e.	.. ..	0	0	fair	Cyrus Cramer.
Boise City, Idaho	27.10	688.3	29.94	760.5	44	6.7	76	sw.	4	1.8	.....	.....	10 s	.....	w.	0	0	cloudy	B. E. Light.
Boston, Massachusetts	30.17	766.3	30.33	770.4	37.0	2.8	61	sw.	13	5.8	.....	0	5 k	.....	sw.	0	0	fair	O. B. Cole.
Brownsville, Texas	29.97	761.2	30.02	762.5	67	19.4	100	calm	0	0	.....	.....	fg.	.....	.....	0	0	dense fog	J. C. Galloway.
Buffalo, New York	29.23	742.4	30.00	762.0	54.4	12.4	67	sw.	20	8.9	.....	10ck;cs	hz.	w.	.....	0	0	cloudy	Wm. Finn.
Burlington, Vermont	29.76	755.9	30.06	763.5	36.3	2.4	71	s.	33	14.8	.....	4 ck	0	w.	.....	0	0	fair	G. C. Schaeffer.
Cairo, Illinois	29.82	757.4	30.23	767.8	64.6	18.1	70	s.	3	1.3	.....	hz.	hz.	.....	.....	0	0	dense haze	W. H. Ray.
Campo, California	27.40	695.9	29.98	761.5	42.3	5.7	100	sw.	8	3.6	.....	.....	10 n	.....	sw.	0.28	7.1	light rain	W. H. Clendenon.
Camp Thomas, Arizona	27.12	688.8	29.86	758.4	49	9.4	52	nw.	.....	.....	1	hz.	0	.....	.....	0	0	clear	J. T. Fitzgerald.
Cape Henry, Virginia	30.35	771.0	30.41	772.4	45	7.2	93	n.	10	4.5	.....	.....	fg.	.....	.....	0.02	0.5	dense fog	J. E. Lanouette.
Cape May, New Jersey	30.37	771.4	30.40	772.1	45	7.2	83	se.	1	0.4	.....	.....	10 s	.....	.....	0	0	cloudy	W. Bolten.
Cedar Keys, Florida	30.20	767.1	30.22	767.6	66	18.9	84	ne.	11	4.9	.....	0	3 k	.....	.....	0	0	clear	F. W. Mixer.
Champaign, Illinois	29.25	742.9	30.09	764.3	59.8	15.4	70	sw.	16	7.2	.....	3 c	hz.	w.	.....	0	0	dense haze	L. A. Welsh.
Charleston, S. Carolina	30.28	769.1	30.34	770.6	64	17.8	93	ne.	8	3.6	.....	.....	10 s	.....	calm	0	0	threatening	J. H. Smith.
Charlotte, N. Carolina	29 49	749.0	30.35	770.9	57.0	13.9	93	ne.	3	1.3	.....	.....	10s;fg	.....	ne.	0.27	6.9	cloudy	D. O. Donoghue.
Chattanooga, Tennessee	29.48	748.8	30.31	769.9	64.0	17.8	78	s.	7	3.1	.....	5 ck	hz.	s.	.....	0	0	fair	B. L. Goulding.
Cheyenne, Wyoming	24.02	610.1	30.02	762.5	31.6	— 0.2	78	e.	8	3.6	.....	0	4 s	... .	se.	inap.	inap.	fair	E. McGovern.
Chicago, Illinois	29.26	743.2	30.00	762.0	61.8	16.6	70	sw.	9	4.0	.....	9 ck	0	sw.	.....	0.02	0.5	cloudy	J. Mitchell.
Chincoteague, Virginia	30.39	771.9	30.41	772.4	42.7	5.9	83	ne.	6	2.7	.....	.....	10 s	.....	.....	0	0	cloudy	V. P. Temple.
Cincinnati, Ohio	29.51	749.5	30.18	766.6	63.2	17.3	65	sw.	4	1.8	.....	3 c	0	w.	.....	0	0	clear	R. B. Watkins.
Cleveland, Ohio	29.34	745.2	30.10	764.5	63.8	17.7	59	s.	15	6.7	.....	3 c	0	w.	.....	0	0	clear	J. B. Newlin.
Coleman City, Texas	28.25	717.5	30.07	763.8	57	13.9	93	se.	5	2.2	.....	0	8 s	.....	s.	0	0	cloudy	L. Dorman.
Columbus, Ohio	29.28	743.7	30.15	765.8	60	15.6	70	s.	6	2.7	.....	0	0	.....	.....	0.42	10.7	clear	D. Cuthbertson.
Concho, Texas	28.03	711.9	29.97	761.2	63	17.2	84	se.	10	4.5	.....	.....	10 s	.....	.....	0	0	cloudy	W. W. McConihe.
Davenport, Iowa	29.32	744.7	29.99	761.7	63	17.2	68	sw.	14	6.3	.....	.....	10 ks	.....	sw.	inap.	inap.	cloudy	R. R. Martin.
Dayton, Washington T'y	28.20	716.3	29.95	770.7	39.5	4.2	81	sw.	3	1.3	.....	0	0	.....	.....	0	0	clear	H. Clifford.
Deadwood, Dakota	25 42	645.7	30.11	764.8	31	— 0.6	65	ne.	5	2.2	.....	0	0	.....	.....	0	0	clear	G. W. Scott.
Decatur, Texas	.....	.....	.....	.....	60	15.6	65	s.	8	3.6	.....	0	0	.....	.....	0	0	clear	D. J. Carr.
Delaware Breakwater, Del.	30.38	771.6	30.40	772.1	40	4.4	100	se.	7	3.1	.....	.....	9 s;fg	.....	s.	0	0	cloudy	A. Schneider.
Denison, Texas	29.30	744.2	30.10	764.5	60.0	15.6	81	s.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. McGlone.
Denver, Colorado	24.74	628.4	30.00	762.0	41.5	5.3	66	nw.	3	1.3	.....	.....	10 s	.....	calm	0	0	cloudy	F. M. Neal.
Des Moines, Iowa	29.12	739.6	30.05	763.3	48	8.9	77	n.	8	3.6	.....	.....	10 s	.....	n.	0.12	3.0	cloudy	F. W. Conrad.
Detroit, Michigan	29.28	743.7	30.01	762.2	58.2	14.6	69	sw.	8	3.6	.....	5 k	sk.	nw.	.....	0	0	fair	C. F. R. Wappenhans.
Dodge City, Kansas	27.30	693.4	29.94	760.5	58.5	14.7	82	se.	5	2.2	.....	.....	10 s	.....	se.	0.01	0.3	cloudy	E. A. Thomas.
Dubuque, Iowa	29.22	742.2	29.95	760.7	62.2	16.8	78	W.	.....	.....	1	10 c	0	nw.	.....	0.02	0.5	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.52	749.8	30.24	768.1	26	— 3.3	64	nw.	15	6.7	.....	0	0	.....	.....	0.09	2.3	clear	N. B. Conger.
Eagle Pass, Texas	29.22	742.2	30.03	762.7	68.0	20.0	84	se.	10	4.5	.....	0	5 s	.....	se.	0	0	fair	F. Belford.
Eagle Rock, Idaho	25.14	638.5	29.86	758.4	36	2.2	81	n.	10	4.5	.....	0	0	.....	.....	0.52	13.2	clear	J. M. Clifford.
Eastport, Maine	30.19	766.8	30.26	768.6	32	0.0	78	s.	23	10.3	.....	.....	10 s	.....	s.	0	0	cloudy	J. H. Melton.
El Paso, Texas	26.12	663.4	29.86	758.4	65	18.3	29	nw.	2	0.9	.....	4 ck	c	calm	.....	0	0	fair	J. F. Marshall.
Erie, Pennsylvania	29.30	744.2	30.05	763.3	61	16.1	65	s.	20	8.9	.....	hz.	0	.....	.....	0	0	clear	R. H. Paxton.
Escanaba, Michigan	29.38	746.2	30.07	763.8	29	— 1.7	77	n.	29	13.0	.....	.....	10 s	.....	.....	0.12	3.0	cloudy	C. Dill.
Florence, Arizona	28.44	722.4	29.94	760.5	46.3	7.9	62	sw.	1	0.4	.....	0	hz.	.....	.....	0	0	clear	R. R. Herman.
Fort Apache, Arizona	24.94	633.5	29.86	758.4	42	5.6	62	e.	1	0.4	.....	0	5 s	.....	calm	0	0	fair	W. C. Barnes.
Fort Assinnaboine, Montana	27.09	688.1	29.99	761.7	29	— 1.7	67	sw.	4	1.8	.....	0	0	.....	.....	0	0	clear	B. O. Lenoir.
Fort Bennett, Dakota	28.68	728.5	30.32	770.1	29	— 1.7	80	ne.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	T. Gibson.
Fort Benton, Montana	27.14	689.3	30.00	762.0	32	0.0	62	calm	0	0	.....	0	0	.....	.....	0	0	clear	S. Wheaton.
Fort Buford, Dakota	28.23	717.0	30.30	769.6	24	— 4.4	76	se.	11	4.9	.....	.....	10 s	.....	calm	0	0	cloudy	A. H. Bell.
Fort Custer, Montana	26.78	680.2	29.96	761.0	39	3.9	65	se.	7	3.1	.....	.....	10 s	.....	calm	0	0	cloudy	V. Verge.
Fort Davis, Texas	25.06	636.5	29.85	758.2	56	13.3	72	s.	2	0.9	.....	0	4 s	.....	s.	0	0	fair	J. Williams.
Fort Elliott, Texas	27.18	690.4	29.96	761.0	58	14.4	55	s.	24	10.7	.....	.....	10 s	.....	s.	0	0	cloudy	W. J. Cundall.
Fort Gibson, Indian T'y	29.54	750.3	30.12	765.0	62.4	16.9	78	se.	6	2.7	.....	5 cs	0	s.	.....	0	0	fair	J. B. Campbell.
Fort Grant, Arizona	25.14	638.5	29.86	758.4	40	4.4	62	ne.	4	1.8	.....	8 ck	0	.....	.....	0	0	cloudy	T. J. Macgowan.
Fort Griffin, Texas	28.77	730.7	30.07	763.8	61	16.1	84	calm	0	0	.....	10 cs	0	calm	.....	0	0	cloudy	G. H. Hayne.
Fort Keogh, Montana	27.57	700.3	30.11	764.8	34	1.1	65	se.	6	2.7	.....	3 c	0	.....	.....	0	0	clear	W. B. Stockman.
Fort Macon, North Carolina	30.37	771.4	30.38	771.6	51	10.6	100	ne.	6	2.7	.....	.....	10 s	.....	calm	0.05	1.3	cloudy	L. Leonardy.
Fort McKavett, Texas	27.79	705.9	30.05	763.3	61	16.1	93	se.	11	4.9	.....	.....	10 s	.....	se.	0	0	cloudy	J. E. Thatcher.
Fort Missoula, Montana	26.61	675.9	29.92	760.0	34	1.1	89	nw.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. H. Jones.
Fort St. Michaels, Alaska	29.86	758.4	29.90	759.4	—10	—23.3	100	sw.	3	1.3	.....	0	0	.....	.....	0	0	clear	A. P. Leavitt.
Fort Shaw, Montana	26.27	667.2	29.94	760.5	25	— 3.9	76	w.	5	2.2	.....	0	0	.....	.....	0	0	clear	A. L. Mathews.
Fort Sill, Indian Territory	28.80	731.5	30.04	763.0	62.5	16.9	82	s.	13	5.8	.....	.....	10 s	.....	s.	0	0	cloudy	T. Cleary.
Fort Stevenson, Dakota	28.46	722.9	30.36	771.1	15	— 9.4	83	e.	4	1.8	.....	0	0	.....	.....	0	0	clear	W. Burrows.
Fort Verde, Arizona	.....	.....	.....	.....	51.3	10.7	43	se.	.....	.....	2	0	0	.....	.....	0	0	clear	D. Brooks.
Fort Washakie, Wyoming	24.38	619.2	.....	.....	39.8	4.3	87	s.	5	2.2	.....	.....	10 s	.....	.....	0.06	1.5	cloudy	T. M. Ambler.
Fredericksburg, Texas	28.30	718.8	30.02	762.5	62	16.7	90	s.	10	4.5	.....	.....	10 ks	.....	sw.	0	0	cloudy	H. S. Miles.
Galveston, Texas	30.08	764.0	30.12	765.0	69	20.6	85	se.	10	4.5	.....	0	5 k	.....	se.	0	0	fair	E. O'C. MacInerney.
Grand Haven, Michigan	29.24	742.7	29.93	760.2	51.5	10.8	80	s.	24	10.7	.....	.....	10 s	.....	sw.	0	0	cloudy	W. A. Reid.
Hatteras, North Carolina	30.34	770.6	30.36	771.1	51	10.6	100	n.	16	7.2	.....	.....	fg.	.....	.....	0.14	3.6	dense fog	R. M. Crawford.
Helena, Montana	25.68	652.3	29.94	760.5	35	1.7	56	w.	2	0.9	.....	10 k	0	.....	.....	0	0	cloudy	N. C. Smith.
Henrietta, Texas	29.10	739.1	30.13	765.3	62.0	16.7	87	s.	5	2.2	.....	.....	10 s	.....	.....	0	0	cloudy	J. W. Byram.
Huron, Dakota	28.85	732.8	30.30	769.6	20	— 6.7	70	n.	13	5.8	.....	4 k	0	n.	.....	0	0	fair	S. W. Glenn.
Indianapolis, Indiana	29.30	744.2	30.12	765.0	64.5	18.1	64	s.	5	2.2	.....	4 cs	cs	hz.	calm	calm	0	0	fair	O. Schutze
Indianola, Texas	30.04	763.0	30.07	763.8	70.0	21.1	94	se.	8	3.6	.....	0	2 ks;hz	.....	se.	0	0	clear	I. A. Reed.
Jacksboro, Texas	28.92	734.6	30.10	764.5	59	15.0	87	se.	6	2.7	.....	0	2 ks	.....	s.	0	0	clear	J. P. Sherry.
Jacksonville, Florida	30.23	767.8	30.27	768.8	67	19.4	78	e.	8	3.6	.....	3 cs	0	w.	.....	0	0	clear	J. W. Smith.
Keokuk, Iowa	29.35	745.5	30.02	762.5	63.5	17.5	64	sw.	5	2.2	.....	9 k	0	w.	.....	0	0	cloudy	F. Z. Gosewisch
Key West, Florida	30.04	763.0	30.06	763.5	73.0	22.8	84	e.	11	4.9	.....	.....	10 s	.....	e.	0.57	14.5	cloudy	L. M. Melbourne.
Kittyhawk, North Carolina	30.38	771.6	30.40	772.1	46	7.8	100	ne.	16	7.2	.....	.....	10s;fg	.....	.....	0.07	1.8	cloudy	E. A. Beals.
Knoxville, Tennessee	29.27	743.4	30.31	769.9	59.3	15.2	82	calm	0	0	.....	4 ck	sk.	w.	.....	0	0	fair	J. A. Cody.
La Crosse, Wisconsin	29.20	741.7	30.00	762.0	46.5	8.1	68	n.	24	10.7	.....	.....	10 s	.....	n.	0.36	9.1	cloudy	S. C. Emery.
La Mesilla, New Mexico	25.97	659.6	29.85	758.2	58.5	14.7	29	calm	0	0	.....	5 c	3 s	.....	.....	0	0	cloudy	N. D. Lane.
Leavenworth, Kansas	29.15	740.4	30.06	763.5	62	16.7	78	calm	0	0	.....	.....	10 s	.....	sw.	0.02	0.5	cloudy	A. W. Browne.
Lewiston, Idaho	29.11	739.4	29.96	761.0	42	5.6	43	se.	2	0.9	.....	0	0	.....	.....	0	0	clear	W. Blake.
Little Rock, Arkansas	29.85	758.2	30.17	766.3	61	16.1	84	calm	0	0	.....	0	hz.	.....	calm	0	0	clear	W. U. Simmons.
Los Angeles, California	29.68	753.9	30.08	764.0	52.0	11.1	86	ne.	1	0.4	.....	.....	10 s	.....	calm	1.18	30.0	cloudy	E. F. Kubel.
Louisville, Kentucky	29.58	751.3	30.15	765.8	65	18.3	63	s.	3	1.3	.....	.....	9 s	.....	.....	0	0	cloudy	H. C. Smyth.
Lynchburg, Virginia	29.68	753.9	30.39	771.9	48.5	9.2	74	calm	0	0	.....	.....	10 s	.....	.....	0.05	1.3	cloudy	W. R. Bushby.
Madison, Wisconsin	28.90	734.0	29.94	760.5	61	16.1	84	sw.	9	4.0	.....	.....	10 s	.....	w.	0.12	3.0	cloudy	C. A. Shaw.
Marquette, Michigan	29.46	748.3	30.20	767.1	22	— 5.6	73	nw.	24	10.7	.....	.....	10 s	.....	nw.	0.05	1.3	cloudy	J. Gilligan.
Mason, Texas	28.39	721.1	30.04	763.0	64.8	18.2	78	se.	6	2.7	.....	.....	10 s	.....	se.	0	0	cloudy	P. M. Wilson.
Memphis, Tennessee	29.86	758.4	30.20	767.1	64	17.8	78	se.	3	1.3	.....	hz.	hz.	.....	.....	0	0	dense haze	D. T. Flannery.
Milwaukee, Wisconsin	29.15	740.4	29.92	760.0	60	15.6	87	sw.	19	8.5	.....	.....	10 s	.....	sw.	0.04	1.0	cloudy	W. Line.

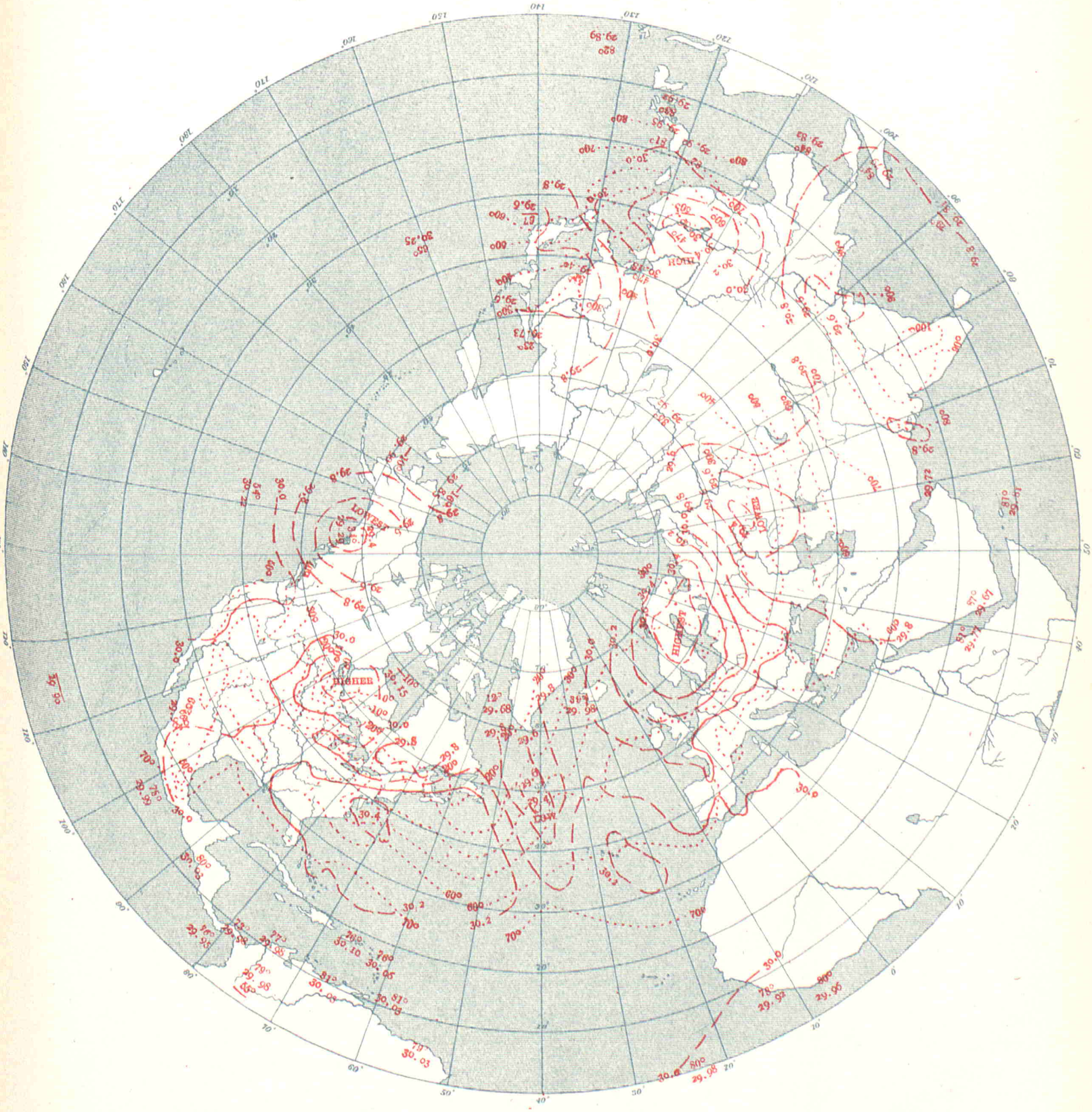
STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–01	0–10	0–10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Mobile, Alabama	30.18	766.6	30.22	767.6	61	16.1	87	ne.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. D. Paxton.
Montgomery, Alabama	30.03	762.7	30.26	768.6	65	18.3	68	se.	5	2.2	.....	0	0	.....	.....	0	0	clear	J. B. McLaughlin.
Moorhead, Minnesota	29.35	745.5	30.38	771.6	9.1	—12.7	76	n.	16	7.2	.....	0	5 s	.....	n.	0	0	fair	H. Bessant.
Morgantown, W. Virginia	29.21	741.9	30.25	768.3	57.0	13.9	64	w.	1	0.4	.....	0	fg.	.....	.....	0.08	2.0	clear	G. C. Lewis.
Mt. Washington, N. H.	23.74	603.0	30.15	765.8	27.0	— 2.8	80	nw.	63	28.2	.....	3 cs	2s;sk	nw.	nw.	0	0	fair	J. G. Linsley.
Nashville, Tennessee	29.62	753.9	30.22	767.6	60.5	15.8	82	se.	3	1.3	.....	9 ck	hz.	se.	.....	0	0	cloudy	L. A. Jesunofsky.
New Haven, Connecticut	30.27	768.8	30.39	771.9	36	2.2	79	s.	9	4.0	.....	.....	10 s	.....	s.	0	0	cloudy	J. H. Sherman.
New London, Connecticut	30.37	771.4	30.42	772.7	38	3.3	72	sw.	11	4.9	.....	.....	10 s	.....	sw.	0	0	cloudy	J. G. Lynch.
New Orleans, Louisiana	30.11	764.8	30.17	766.3	64.2	17.9	90	e.	4	1.8	.....	hz.	hz.	.....	.....	0	0	dense haze	S. Dunne.
Newport, Rhode Island	30.34	770.6	30.39	771.9	36.8	2.7	76	sw.	12	5.4	.....	.....	10 ks	.....	nw.	0	0	cloudy	W. McGillivray.
New River, N. Carolina	.....	...	.....	.....	49	9.4	100	ne.	.....	.....	1	.....	fg.	.....	.....	0	0	dense fog	C. C. Corbin.
New Shoreham, Rhode I'd.	30.37	771.4	30.40	772.1	38.0	3.3	72	sw.	12	5.4	.....	.....	10 s	.....	sw.	0	0	cloudy	W. Davis.
New York, New York	30.22	767.6	30.40	772.1	37	2.8	82	sw.	9	4.0	.....	.....	10 s	.....	sw.	0	0	cloudy	E. B. Garriott.
Norfolk, Virginia	30.38	771.6	30.41	772.4	47	8.3	93	se.	4	1.8	.....	.....	10s;fg	.....	.....	inap.	inap.	cloudy	J. T. Elker.
North Platte, Nebraska	27.14	689.3	30.10	764.5	34.6	1.4	69	nw.	23	10.3	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	E. F. Brady.
Olympia, Washington T'y	30.01	762.2	30.05	763.3	40.0	4.4	89	sw.	1	0.4	.....	.....	10 s	.....	calm	0	0	cloudy	J. Dascomb.
Omaha, Nebraska	28.88	733.5	30.09	764.3	42.3	5.7	71	ne.	20	8.9	.....	.....	10 s	.....	n.	0.01	0.3	cloudy	A. Pollak.
Ooglaamie, Pt. Barrow, Alas.	29.83	757.7	29.85	758.2	—16.2	—26.8	82	s.	2	0.9	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	P. H. Ray.
Oswego, New York	29.68	753.9	30.02	762.5	48.0	8.9	71	s.	20	8.9	.....	4 c	hz.	.....	.....	0	0	fair	S. W. Beall.
Palestine, Texas	29.60	751.8	30.16	766.1	58.5	14.7	82	se.	6	2.7	.....	4 cs	0	.....	.....	0	0	fair	L. M. Pindell.
Pensacola, Florida	30.20	767.1	30.23	767.8	65.1	18.4	78	ne.	6	2.7	.....	0	0	.....	.....	0	0	clear	M. McGauran.
Philadelphia, Pa	30.32	770.1	30.42	772.7	42	5.6	73	s.	5	2.2	.....	.....	10 s	.....	s.	0	0	cloudy	T. F. Townsend.
Pike's Peak, Colorado	17.65	448.3	29.93	760.2	20	— 6.7	96	se.	20	8.9	.....	.....	10 n	.....	se.	0.06	1.5	light snow	L. M. Dey.
Ploche, Nevada	23.91	607.3	29.90	759.4	30	— 1.1	76	calm	0	0	.....	10 k	0	s.	.....	inap.	inap.	cloudy	C. N. Kitchel.
Pittsburg, Pennsylvania	29.34	745.2	30.17	766.3	61.3	16.3	67	s.	12	5.4	.....	1 ck	0	sw.	.....	0.03	0.8	clear	J. H. Bryce.
Port Eads, Louisiana	30.16	766.1	30.17	766.3	67.1	19.5	91	ne.	11	4.9	.....	0	hz.	.....	.....	inap.	inap.	clear	H. G. Christian.
Port Huron, Michigan	29.27	743.4	29.97	761.2	55.3	12.9	76	sw.	12	5.4	.....	10 cs	0	w.	.....	0	0	cloudy	W. O. Bailey.
Portland, Maine	30.20	767.1	30.25	768.3	35.0	1.7	69	sw.	17	7.6	.....	3 k	6 s	sw.	sw.	0	0	cloudy	D. C. Murphy.
Portland, Oregon	30.01	762.2	30.08	764.0	44.5	6.9	74	s.	7	3.1	.....	.....	10 s	.....	s.	0	0	cloudy	M. L. Hearne.
Portsmouth, N. Carolina	.....	.....	.....	.....	60	15.6	87	ne.	16	7.2	.....	.....	fg.	.....	calm	0.02	0.5	dense fog	F. P. Chaffee.
Prescott, Arizona	24.62	625.3	29.84	757.9	37	2.8	53	s.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. Mc N. Wright.
Provincetown, Mass	30.32	770.1	30.35	770.9	35.5	1.9	79	s.	16	7.2	.....	.....	10 s	.....	sw.	0	0	cloudy	P. T. Jenkins.
Punta Rassa, Florida	30.09	764.3	30.10	764.5	69	20.6	84	e.	12	5.4	.....	7 ck	3 ks	sw.	e.	0.08	2.0	cloudy	W. J. Evans.
Red Bluff, California	29.66	753.4	30.03	762.7	45.3	7.4	92	nw.	2	0.9	.....	5 cs	1 s	.....	.....	0.04	1.0	fair	J. M. Frantz.
Rio Grande City, Texas	29.76	755.9	30.00	762.0	68	20.0	93	se.	7	3.1	.....	.....	10 s	.....	se.	0	0	cloudy	W. H. Taylor.
Rochester, New York	29.30	744.2	29.99	761.7	53	11.7	66	sw.	28	12.5	.....	5 c	hz.	nw.	.....	0	0	fair	A. T. Sherwood.
Roseburg, Oregon	29.61	752.1	30.17	766.3	39	3.9	87	calm	0	0	.....	7 c	0	w.	.....	0	0	fair	J. J. Nanry.
Sacramento, California	29.96	761.0	30.04	763.0	46.7	8.2	93	calm	0	0	.....	0	6 s	.....	n.	0.52	13.2	fair	J. A. Barwick.
St. Louis, Missouri	29.52	749.8	30.13	765.3	65.0	18.3	58	s.	12	5.4	.....	10 c	hz.	w.	.....	0	0	cloudy	J. H. Webber.
St. Paul, Minnesota	29.25	742.9	30.14	765.5	35.0	1.7	64	nw.	12	5.4	.....	0	0	.....	.....	0.03	0.8	clear	P. F. Lyons.
St. Vincent, Minnesota	29.58	751.3	30.50	774.7	— 8	—22.2	100	nw.	9	4.0	.....	0	0	.....	.....	0	0	clear	G. Kingsbury.
Salt Lake City, Utah	25.47	646.9	29.84	757.9	39	3.9	65	n.	1	0.4	.....	0	0	.....	.....	0.19	4.8	clear	J. Craig.
San Antonio, Texas	29.35	745.5	30.05	763.3	64.5	18.1	93	calm	0	0	.....	2 k	7 s	.....	se.	0	0	cloudy	E. Laue.
San Diego, California	29.98	761.5	30.05	763.3	53.6	12.0	88	w.	10	4.5	.....	.....	10 n	.....	w.	0.14	3.6	light rain	A. C. Dobbins.
Sandusky, Ohio	29.36	745.7	30.06	763.5	62.3	16.8	67	sw.	23	10.3	.....	0	5 k	.....	sw.	0	0	fair	M. H. Perry.
Sandy Hook, New Jersey	30.37	771.4	30.41	772.4	39.0	3.9	82	s.	10	4.5	.....	.....	10 ks	.....	s.	0	0	cloudy	B. A. Blundon.
San Francisco, California	30.02	762.5	30.09	764.3	51	10.6	86	sw.	4	1.8	.....	.....	10 s	.....	se.	0.01	0.3	cloudy	N. Gorom.
Santa Fé, New Mexico	23.06	585.7	29.82	757.4	50.6	10.3	47	s.	18	8.0	.....	6 cs	0	sw.	.....	0	0	fair	H. U. Jones.
Savannah, Georgia	30.25	768.3	30.34	770.6	64	17.8	87	n.	3	1.3	.....	3 ck	0	e.	.....	0	0	clear	H. W. Ford.
Shreveport, Louisiana	29.93	760.2	30.17	766.3	59	15.0	87	s.	2	0.9	.....	hz.	fg.	.....	.....	0	0	clear	E. N. Meekins.
Silver City, New Mexico	24.16	613.7	29.84	757.9	36	2.2	46	nw.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. B. Wallace.
Sitka, Alaska	29.23	742.4	29.29	744.0	34	1.1	88	nw.	12	5.4	.....	..	10 n	.....	calm	0.77	19.6	light rain	J. J. McLean.
Smithville, North Carolina	30.34	770.6	30.38	771.6	55	12.8	100	e.	8	3.6	.....	.....	10 s	.....	.....	0	0	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	27.88	708.1	29.94	760.5	36.5	2.5	83	calm	0	0	.....	0	0	.....	.....	0	0	clear	D. Moore.
Springfield, Illinois	29.40	746.7	30.10	764.5	62	16.7	60	sw.	10	4.5	..	4 ck	3 s;hz	w.	w.	0	0	fair	T. B. Jennings.
Springfield, Massachusetts	30.20	767.1	30.33	770.4	37.0	2.8	82	sw.	8	3.6	.....	10 k	0	sw.	.....	c	0	cloudy	T. S. Outram.
Springfield, Mo	28.70	729.0	30.22	767.6	61	16.1	72	s.	8	3.6	.....	3 ck	0	w.	.....	0	0	clear	J. B. Marbury.
Stockton, Texas	26.88	682.7	29.91	759.7	60.6	15.9	90	s.	20	8.9	.....	0	4 s	.....	s.	0	0	fair	J. O'Dowd.
Thatcher's Island, Mass	30.36	771.1	30.42	772.7	36.5	2.5	70	sw.	25	11.2	.....	5 k	0	sw.	.....	0	0	fair	G. Liebmann.
Toledo, Ohio	29.33	745.0	30.04	763.0	61	16.1	65	sw.	12	5.4	.....	5 cs	2 s	sw.	.....	0	0	fair	A. Buell.
Tucson, Arizona	27.51	698 7	29.90	759.4	48	8.9	46	se.	4	1.8	.....	9	0	.....	.....	0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.63	752.6	30.00	762.0	46.0	7.8	68	sw.	3	1.3	.....	2 cs	0	.....	.....	0	0	clear	J. Daly.
Uvalde, Texas	29.06	738.1	30.03	762.7	67	19.4	90	s.	6	2.7	.....	.....	10 s	.....	s.	0	0	cloudy	E. C. Imlay.
Vicksburg, Mississippi	29.94	760.5	30.20	767.1	63	17.2	75	se.	3	1.3	.....	5 k	hz.	calm	.....	0	0	fair	T. J. Kenan.
Visalia, California	29.65	753.1	30.02	762.5	50.5	10.3	93	nw.	4	1.8	.....	.....	10 s	.....	nw.	0.04	1.0	cloudy	J. T. Cochran.
Washington, D. C.	30.30	769.6	30.42	772.7	42.5	5.8	93	se.	4	1.8	.....	.....	10 s	.....	se.	0	0	cloudy	B. M. Purssell.
West Las Animas, Colorado	25.92	658.4	29.88	758.9	45	7.2	89	ne.	16	7.2	.....	.....	10 n	.....	sw.	0.04	1.0	light rain	J. Grover.
Wickenburg, Arizona	.....	.....	.....	.....	41	5.0	85	calm	.....	.....	0	0	0	.....	.....	0	0	clear	H. A. Kremp.
Williamsport, Pa	29.68	753.9	30.29	769.4	44	6.7	76	se.	7	3.1	.....	.....	10 s	.....	calm	0	0	threatening	B. F. Hough.
Wilmington, N. Carolina	30.32	770.1	30.38	771.6	55	12.8	93	calm	0	0	.....	.....	10s;fg	.....	.....	0	0	cloudy	E. W. McGann.
Winnemucca, Nevada	25.46	646.7	29.86	758.4	43	6.1	93	n.	6	2.7	.....	.....	10 n	.....	n.	0.16	4.1	light rain	J. R. Williams.
Yankton, Dakota	28.85	732.8	30.19	766.8	29	— 1.7	77	e.	12	5.4	.....	.....	10 s	.....	.....	0.01	0.3	cloudy	J. H. Atfield.
Yuma, Arizona	29.79	756.7	29.94	760.5	55.0	12.8	65	sw.	5	2.2	.....	1 cs	0	sw.	.....	0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.04	559.8	.....	.....	55.0	12.8	72	w.	1	0.4	.....	6 cs	2 ks	.....	.....	0.66	16.8	cloudy	Joaquin Gomez.
Bridgetown, Barbados, W. I.	30.02	762.5	30.03	762.7	81	27.2	78	e.	.....	.....	.....	5 k	5 ks	e.	e.	0	0	fair	J. A. Racker.
Buenaventura, U. S. C.	.....	...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. I. Plume.
Guadeloupe, W. I.	29.94	760.5	29.96	761.0	76	24.4	87	e.	.....	.....	.....	2 k	3 ks	.....	.....	0.630	16.0	.....	B. Bigar.
Havana, Cuba, W. I.	30.06	763.5	30.11	764.8	73	22.8	90	se.	1.2	0.5	.....	.....	10 ks	.....	calm	1.42	36.1	cloudy	A. Van Caneghem.
Kingston, Jamaica, W. I.	30.06	763.5	30.07	763.8	75.4	24.1	73	calm	0	0	.....	0	1 s	.....	e.	0	0	fine	Robert Johnston.
Navassa	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	F. M. Everett.
Paramaribo, S. A.	30.02	762.5	30.03	762.7	79	26.1	87	e.	.....	.....	2	5 k	8 ps	e.	.....	0.070	1.8	cloudy	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.52	749.8	29.98	761.5	79	26.1	80	calm	.....	.....	0	.....	10 n	.....	.....	1.03	26.2	raining	Miss Flora A. Nichols.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	.....	.....	94	se.	.....	.....	1	7 ck	1 k	sw.	se.	0	0	cloudy	Earl Flint.
Santiago de Cuba, W. I.	30.06	763.5	30.09	764.3	76	24.4	69	calm	0	0	.....	3 cs	0	.....	.....	0	0	fair	Robert Mason.
York Factory, B. A.	30.10	764.5	30.15	765.8	—10.0	—23.3	78	ne.	12	5.4	.....	1 c	0	n.	.....	0	0	fair	W. Wood.

STATIONS AND VESSELS.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
British Naval.																		
H. M. S. Agincourt, N. 36° 07′, W. 5° 21′	30.02	762.5	59	15.0	87	wsw.			2		6	wsw.						drizzling.
H. M. S. Alert, S. 6° 11′, E. 53° 07′	29.77	756.1	85.8	29.9	79	wnw.			2–3		6							d. clouds.
H. M. S. Alexandra, Port Augusta, Sicily	29.94	760.5	62.5	16.9	77	e.			1		7							d. clouds.
H. M. S. Bacchante, Jaffa, Palestine	29.80	756.9	57	13.9	87	wsw.			3		10					3	sw.	squally.
H. M. S. Cleopatra, N. 10° 28′ E. 56° 15′	29.81	757.2	80.5	26.9	91	ene.			2		2	ne.						d. clouds.
H. M. S. Comus, N. 6° 20′, E. 131° 20′	29.89	759.2	82	27.8	91	ene.			2–5		1	ne.				3	ne.	squally.
H. M. S. Daring, N. 18° 11′, E. 118° 20′	29.92	760.0	82	27.8		nne.			2		0							blue sky.
H. M. S. Diamond, S. 38° 21′, E. 123° 00′	30.28	769.1	61	16.1	94	ene.			4–5		5	ne.				1	ene.	d. clouds.
H. M. S. Dido, N. 17° 00′, W. 61° 45′	30.14	765.5	77	25.0		e.			2		3	ne.						d. clouds.
H. M. S. Dryad, N. 23° 37′ E. 58° 36′	29.72	754.9				se.			1		3	e.				1	se.	d. clouds.
H. M. S. Eclipse, S. 15° 43′, E. 46° 20′			85	29.4	100	sse.			1		2							d. clouds.
H. M. S. Espiegle, S. 35° 10′, E. 116° 06′	29.90	759.4	67	19.4	90	e.			2		0					2	ene.	blue sky.
H. M. S. Fawn, N. 15° 22′, E. 42° 10′	29.67	753.6	84.5	29.2		ssw.			1		1						s.	blue sky.
H. M. S. Gannet, S. 33° 01′, W. 71° 37′	30.00	762.0	63	17.2	83	ne.			2		6							d. clouds.
H. M. S. Garnet, Montevideo, Uruguay	29.98	761.5	61	16.1	82	nne.			4		10							overcast.
H. M. S. Inconstant, S. 27° 00′, E. 49° 00′	30.00	762.0	76	24.4	95	wnw.			1		6	wnw.				2	nne.	d. clouds.
H. M. S. Iron Duke, N. 22° 16′, E. 114° 10′	29.86	758.4	69	20.6	90	nw.			1–3		10	nw.						misty.
H. M. S. Lark, S. 11° 00′, E. 162° 27′	29.90	759.4	79.3	26.3		w.			2		4					2	e.	showery.
H. M. S. Liffey, Coquimbo, Chili	29.97	761.2	60	15.6		calm			0		6							d. clouds.
H. M. S. Magpie, N. 32° 44′, E. 129° 51′	29.94	760.5	49.7	9.8	71	nnw.			1		10							raining.
H. M. S. Malabar, Bombay, India	29.76	755.9	84	28.9	87	nnw.			2		4	nw.						misty.
H. M. S. Nelson, Sydney, N. S. Wales	30.01	762.2	65	18.3	84	calm			0		8							misty.
H. M. S. Northampton, Bermuda, W. I.	30.32	770.1	65	18.3	73	ne.			3		3	ene.						d. clouds.
H. M. S. Rambler, St. Paul de Loando, Benguela	29.91	759.7	74	23.3	100	ne.			1		10	calm						raining.
H. M. S. Rocket, Esquimalt, Vancouver Id., B. C.	30.01	762.2	40	4.4		calm			0		1							d. clouds.
H. M. S. Serapis, N. 18° 33′ E. 39° 40	29.77	756.1	81	27.2	70	nne.			2		2	ne.				1	ne	d. clouds.
H. M. S. Tamar, N 36° 14′ E. 13° 42′	29.96	761.0	65.6	18.7	68	calm			0		5							d. clouds.
H. M. S. Tenedos, N. 22° 32′ W. 72° 17′	30.14	765.5	74	23.3	90	ene.			2		9					3	ne.	showery.
H. M. S. Thalia, S. 36° 07′, E. 7° 33′	30.32	770.1	61	16.1		se.			5		10					2	sse.	overcast.
H. M. S. Triumph, Valparaiso, Chili	30.00	762.0	63	17.2	94	calm			0		5	calm						misty.
H. M. S. Tyne, N. 3° 46′, E. 100° 10′	29.79	756.7	84	28.9	100	nw.			2		2							d. clouds.
Portuguese Naval.																		
Rio Lima, Porto Praya, Cape Verde Islands	30.10	764.4	77.0	25.0	76	nne.			2		1		ne.			1		blue sky.
Tamega, Macao, China	29.97	761.2	71.6	22.0	82	nw.			5		10			1 ½ h	ours	3	nw.	raining.
United States Naval.																		
Navy Yard, Pensacola, Fla	30.18	766.6	67	19.4	79	ne.	10	4.5			0			0	0			clear.
Navy Yard, Portsmouth, N. H.	30.30	769.6	34	1.1	90	sw.	18	8.0			8		sw.	0	0			fair.
Naval Hospital, Yokohama, Japan	29.44	747.8	67	19.4	84	sw.			5		8		sw.	0	0			cloudy.
Adams, Panama, Panama	29.76	755.9	73	22.8	90	nw.			1		5			0	0	sm'h		fair.
Alaska, Mollendo, Peru	29.91	759.7	65	18.3	89	calm			0		0			0	0	long		clear.
Alert, Nagasaki, Japan*	29.87	758.7	53	11.7	67	w.			5		10		calm			sm'h		raining.
Alliance, Aspinwall, Panama	29.91	759.7	79	26.1	82	nnw.			2		5			0	0	sm'h		fair.
Ashuelot, Nagasaki, Japan	30.02	762.5	51	10.6	65	nw.			4		10		nw.					rainy.
Brooklyn, Montevideo, Uruguay	29.96	761.0	61	16.1	94	nne.	8	3.6			8		n.	0.03	0.8	sm'h		cloudy.
Colorado, New York, N. Y.	30.39	771.9	38	3.3	81	s.	8	3.6			10		s.	0	0			cloudy.
Enterprise, Curacao, W. I.	30.00	762.0	79	26.1	86	e.			4		2		e.					clear.
Essex, Cape Palmas, Liberia, Africa	29.96	761.0	80	26.7	87	s.			1		5					sm'h	w.	fair.
Franklin, Norfolk, Va.	30.44	773.2	47	8.3	100	e.	7	3.1			10		calm	0.01	0.3			misty.
Galena, Malta, Mediterranean	29.96	761.0	67	19.4	74	nw.			2		2		nw.			sm'h		clear.
Independence, Navy Yard, Mare Island, Cal.	29.91	759.7	52	11.1	86	nw.			2		8		nw.	0	0			cloudy.
Kearsarge, St. Thomas, W. I.	30.12	765.0	77	25.0	73	ene.			2		5		ene.			sm'h		fair.
Lackawanna, Callao, Peru*	29.89	759.2	66	18.9	94	calm			0		10		se.					cloudy.
Lancaster, Leghorn, Italy*	29.90	759.4	65	18.3	78	calm			0		8		w.	0	0			fair.
Marion, S. 33° 54′, E. 18° 24′	29.96	761.0	77	25.0	?	se.			3		2		e.			sm'h		fair.
Michigan, Erie, Pa.	29.93	760.2	59	15.0	100	s.			5		2		sw.					fair.
Minnesota, Newport, R. I.	30.40	772.1	39	3.9	73	ssw.	9	4.0			10		calm					cloudy.
Monocacy, Kobe, Japan	29.74	755.4	58	14.4	94	w.			3–4		10		calm					cloudy.
New Hampshire, Newport, R. I.	30.46	773.7	36	2.2	80	ssw.			4		10							cloudy.
Nipsic, Barcelona, Spain	29.99	761.7	60	15.6	71	sse.			2		10			0	0	mod.	sw.	d. clouds.
Onward, Callao, Peru	30.09	764.3	64	17.8	100	s.			1		10					sm'h		cloudy.
Palos, Kobe, Japan	29.73	755.1	58	14.4	100	w.			4		10		n.			long	w.	drizzling.
Passaic, Washington, D. C.	30.77	781.5	43	6.1	100	e.			1		10		calm					cloudy.
Pensacola, Callao, Peru	29.98	761.5	65	18.3	94	calm	0	0			10							cloudy.
Powhatan, N. 10° 35′, W. 68° 01′	30.03	762.7	81	27.2	78	e.			2		2		nw.	0	0	sm'h		cloudy.
Portsmouth, Hampton Roads, Va.	30.38	771.6	45	7.2	?	ene.			2		2		n;e			long	e.	clear.
Quinnebaug, Naples, Italy	29.94	760.5	60	15.6	76	ssw.			2		10					sm'h		foggy.
Ranger, Acapulco, Mexico*	29.89	759.2	78	25.6	78	calm			0		10		calm	0	0	sm'h		overcast.
Richmond, Kobe Japan*	29.67	753.6	59	15.0	94	w.			4		10			0	0	sm'h		hazy.
Shenandoah, N. 11° 10′ W. 75° 10′*	29.98	761.5	77	25.0	86	ne.			3–5		10		w.	0.8	20.			drizzling.
St. Louis, League Island, Pa.	30.67	779.0	42	5.6	91	s.	5	2.2			10		n;e			mod.	n;e	hazy.
Swatara, Kobe, Japan*	29.57	751.1	59	15.0	82	wnw.			4		10		w.	0	0			cloudy.
Tennessee, Port Royal, S. C.	30.33	770.4	65	18.3	?	ne.	10	4.5			10		nw.			sm'h		cloudy.
Vandalia, Port Royal, S. C.	30.40	773.7	69	20.6	100	se.			3		10			0	0			foggy.
Wabash, Boston, Mass.	30.34	770.6	37	2.8	71	sw.	11	4.9			8							foggy.
Wachusetts, Sitka, Alaska	29.23	742.4	35	1.7	100	nw.			2		10		sw.	0.10	2.5			fair.
Wyoming, Port Royal, S. C.	30.33	770.4	63	17.2	100	ne.	10	4.5			10		calm			mod.		overcast.
Yantic, N. 23° 53′ W. 83° 36′*	30.03	762.7	73	22.8	95	ese.			1–2		5		se.	0	0			foggy.
													e.			mod.	ene.	fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.			Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.	Force.	Amount and kind.		Direction.				Character.	Direction from.	
									Upper.	Lower.	Upper.	Lower.					
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																	
S. S. Circassian, N. 47° 10′, W. 46° 44′	29.66	753.4	43	6.1	83	wsw.			6	5		w.	6 h'r	6 h'r	4	sw.	drizzling.
S. S. Nova Scotian, Halifax, N. S.	30.32	770.1	35	1.7		sw.			3	0							clear.
S. S. Polynesian, N. 43° 16′, W. 46° 30′*	29.90	759.4	28	—2.2		nnw.			6	10		nw.	2 h'r	2 h'r	r'gh	wnw.	cloudy.
S. S. Scandinavian, N. 48° 12′, W. 37° 12′*	29.53	750.0	52	11.1		s.			7	10		s.	4 h'r	4 h'r	con.	s.	overcast.
S. S. Waldensian, N. 41° 51′, W. 50° 38′ *	30.57	776.5	32	0.0		nw.			6	2		nnw.	4 h'r	4 h'r	short	con.	clear.
AMERICAN STEAMSHIP COMPANY.																	
S. S. British Crown, N. 45° 32′, W. 38° 19′†	29.82	757.4	49	9.4		ssw.			6	8		w.	o	o	r'gh	sw.	cloudy.
S. S. Illinois, Philadelphia, Pa.	30.34	770.6	45	7.2	92	se.			4	10		se.					overcast.
S. S. Indiana, Liverpool, England†	30.05	763.3	49	9.4	77	ese.			4	5?		s.	o	o			overcast.?
S. S. Ohio, Philadelphia, Penn †	30.25	768.3	39	3.9	91	s.			2	5		s.					
S. S. Pennsylvania, N. 49° 40′, W. 19° 16′†	29.88	758.9	55	12.8	68	ne.			2	9		e.			sm'h	e.	
ANCHOR LINE.																	
S. S. Assyria, N. 42° 17′, W. 67° 07′*†	30.46	773.7	36	2.2		sw.			6	5?		sw.	o	o	sm'h	sw.	clear?
S. S. Galatia, N. 49° 22′, W. 8° 10′†	30.05	763.3				se.			2	1		sse.	o	o	sm'h		fair.
S. S. India, N. 45° 43′, W. 9° 06′ *	29.85	758.2	54	12.2	93	se.			4	8					mod.	ssw.	hazy.
ATLAS LINE.																	
S. S. Ailsa, N. 28° 21′, W. 74° 53′ †	30.25	768.3	70	21.1	79	e.			2–3	5		e.	4 h'r	4 h'r	mod.	e.	fair.
S. S. Alvo, N 20° 47, W. 72° 45′	30.11	764.8				se.			6	4		se.	sh'rs	shr's	mod.	ese.	fair.
S. S. Arden, N. 10° 40′ W 71° 38′						ne.											fine.
S. S. Athos, Guayanilla, Porto Rico, W. I.	29.74	755.4				e.			1				o	o			clear.
BRITISH METEOROLOGICAL OFFICE.																	
Bk. Arran, N 0° 59′, W. 23° 37′	29.98	761.5	80	26.7	80	sw.			1	4							d. clouds.
S. Baroda, S. 4° 20′, E. 82° 44′	29.82	757.4	79.5	26.4	86	ne.			2	10							overcast.
British Merchant, N. 1° 55′, E. 87° 53′	29.81	757.2	78.8	26.0	93	se.			0–1	10							thnd'r st'rm
Bk. Caldew, N. 43° 53′, W. 25° 56′	30.18	766.6	52	11.1		nnw.			4	5							d. clouds.
S. S. Cipero, Plymouth Sound, England	30.01	762 2	53.2	11.8	80	nne.			1	8							misty.
Bk. Commewyne, N. 46° 56′. W. 28° 01′	30.10	764.5	50	10.0	58	nw.			3	3							d. clouds.
Bk. Corona, S. 0° 17′, W. 28° 24′	29.99	761.7	85.5	29.7	74	ene.			3	3							d. clouds.
S. S. Gordon Castle, N. 8° 23′ E. 105° 01′	29.82	757.4	84	28.9	77	ese.			1	4							d. clouds.
S. S. Rosetta, N. 36° 55′, E. 3° 36′	30.01	762.2	59	15.0	70	w.			4	4							d. clouds.
CROMWELL LINE.																	
S. S. Hudson, N. 31° 26′, W. 80° 05′†	30.30	769.6	68	20.0		ne.			3	1		ne.	o	o	mod.	e.	clear.
CUNARD LINE.																	
S. S. Scythia, N. 50° 08′, W. 23° 19′			55	12.8	87	wnw.			5	2		nw.	o	o	mod.	wnw.	clear.
GENERAL TRANS-ATLANTIC COMPANY.																	
S. S. France, N. 45° 11′, W. 36° 34′†	29.91	759.7	60.8	16.0		ssw.			6			ssw.	o	o	r'gh	w.	cloudy.
HAMBURG AMERICAN PACKET COMPANY.																	
S. S. Bohemia, N. 49° 26′, W. 9° 25′.*†	30.00	762.0				sse.			2	2		s.	o	o	sm'h	se.	fair.
S. S. Lessing, N. 41° 07′ W. 57° 58′	30.50	774.6	41	5.0		wnw.			3	10			rain	rain	long	wsw.	cloudy.
S. S. Silesia, N. 49° 57′, W. 4° 52*†	30.07	763.8	51.8	11.0		ese.			3	5		se.	o	o	1	s.	fair.
S. S. Wieland, N. 44° 33′, W. 43° 40′	30.02	762.5	45	7.2		nw.			8	10		nw.	o	o	7	wnw.	clearing.
MALLORY LINE.																	
S. S. Colorado, N. 31° 36′, W. 79° 52′†	30.28	769.1	65	18.3		e.			3	1		e.	o	o	mod.	e.	clear.
MERCHANTS' EXPRESS LINE.																	
S. S. Hermod, N. 49° 55′, W. 27° 00′*†	29.78	756.4	46.4	8.0		w.			3	8		nw.	2 h'r	2 h'r	long	nw.	cloudy.
NATIONAL LINE.																	
S. S. England, N. 51° 21′, W. 10° 48′	30.00	762.0				s.			5	8		s.	o	o	mod.	s.	cloudy.
S. S. Erin, N. 48° 58′, W. 14° 26′	29.89	759.2	55	12.8		e.			2	0			o	o	sm'h		clear.
S. S. Holland, N. 41° 07′ W. 60° 06…	30.49	774.4	38	3.3		se.			1	2		se.	o	o	sm'h	n	fair.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																	
S. S. Niagara, N. 31° 22′, W. 80° 29′†	30.36	771.1	68	20.0		ese.			2	3		e.	o	o	small	s.	fine.
S. S. Santiago, N. 20° 16′, W. 78° 35′†	30.07	763.8	76	24.4		calm			0	5		ese.	10 h'r	10 h'r	sm'h		fine.
NEW YORK, HAVANA AND MEXICAN MAIL.																	
S. S City of Alexandria, Vera Cruz, Mexico*†	30.07	763.8	72	22.2		nnw.			7	10		nnw.	o	o			cloudy.
NEW YORK HERALD WEATHER SERVICE.																	
S. S. Alvena, N. 26° 19′, W. 74° 51′†	29.99	761.7	70	21.1		w.			5							ene.	clear.
S. S. Atlas, N. 11° 50′, W. 80° 39′*†	30.08	764.0	80	26.7		ne.			1							sw.	clear.
S. S. City of Washington, N. 21° 20′, W. 89° 38′*†	30.10	764.5	76	24.4		e.			1						sm'h		raining.
S. S. Lepanto, N. 45° 24′ W. 36° 00′*	29.71	754.6	50	10.0		sw.			9							sw.	cloudy.
S. S. New York, N. 33° 03′ W. 77° 13′*†	30.33	770 4	70	21.1		ene.			3							ene.	light rain.
S. S. P. C. Caland, N. 49° 35′, W. 12° 32′	29.95	760.7	59.0	15.0		se.			3						2	s.	fine.
S. S. W. A. Scholten, N. 41° 02′, W. 66° 09′	30.23	767.8	37.5	3.1		s.			3						sm'h		
NORTH GERMAN LLOYD																	
S. S. Graf Bismarck, Off Four Rock	30.03	762.7	60.8	16.0		calm			0	1		calm	o	o	mod.	sw.	clear.
S. S. Hohenzollern, N. 5° 42′, W. 33° 03′*	29.97	761.2	72.5	22.5		e.			3–4	5?		e.	o	o	sm'h	e.	clear?
S. S. Kronprinz F. Wilhelm, N. 49° 26′ W. 21° 26′	30.03	762.7	49.1	9.5		ne.			2	0			o	o	3	e.	fair.
S. S. Main, N 43° 06′, W. 46° 53′	29.95	760.7	32.0	0.0		nw.			7	10		nw.	2 h'r	2 h'r	light	nw.	squally.
S. S. Mosel, N. 50° 21′ W. 2° 47′	30.05	763.3	51	10.6		ne.			6	10		ne.	2½h'r	2½hr	sm'h		showery.
S. S. Ohio, N. 35° 10′, W. 53° 13′	30.26	768.6				n.			6	5		nnw.	3 h'r	3 h'r	r'gh	nne.	fair.
S. S. Rhein, N. 49° 30′, W. 22° 10′	30.00	762.0				n.			2	3		n.	o	o	mod.	nw.	clear.
S. S. Salier, N 53° 33′, E. 68° 34′						e.			6	1		e.	o	o			clear.
S. S. Strassburg, N. 48° 54′, W. 23° 25′	30.02	762.5	52.0	11.1	93	s.			5–6	4			3 h'r	3 h'r	r'gh	s.	fair.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																	
S. S. Belgic N. 41° 46′ W. 142° 46′†	30.12	765.0	54	12.2	80	wsw.			2	2		wsw.	o	o	light	sw.	clear.
S. S. Oceanic, N. 35° 06′ E. 159° 52′*	30.25	768.3	65	18.3	94	s.			6	6		s.			3	con.	fine.
OCEAN STEAMSHIP COMPANY.																	
S. S. City of Augusta, New York, N. Y.†	30.47	773 9				se.			1	10		s.					smoky.
S. S. Seminole, Boston, Mass†	30.27	768.8	36	2.2	61	sw.			5	1		sw.	o	o			clear.
OREGON IMPROVEMENT COMPANY.																	
S. S. Mississippi, Seattle, Wash. Ter.†	30.07	763.8	46	7.2	77	s.			1	8		sw.					fair.
OREGON RAILWAY AND NAVIGATION COMPANY.																	
S. S. City of Chester, Port Townsend, Wash. Ter.*†	29.99	761.7	46	7.2	84	s.			1	10		se.			sm'h	nw.	misty.
S. S. Oregon, San Francisco, Cal. †	30.04	763.0	50	10.0	93	calm			0	10		nw.					hazy.
PACIFIC COAST STEAMSHIP COMPANY.																	
S. S. Ancon, San Francisco, Cal.†	30.01	762 2	51	10.6	86	calm			0	10		w.					misty.
S. S. Idaho, Seattle, Wash. Ter. †	29.96	761.0	42	5.6	100	sse.			2	10		se.					cloudy.
S. S. State of California, San Francisco, Cal.†	30.05	763.3	51	10.6	86	calm			0	8		sw.					cloudy.
S. S. Victoria, N. 44° 01′, W. 125° 03′†	30.09	764.2	51	10.6	86	wnw.			2	8			7 h'r	7 h'r	h'vy	w.	misty.
PACIFIC MAIL STEAMSHIP CO.																	
S. S. Australia, Sydney, N. S. W.	30.01	762.2	65	18.3	89	calm			0	5?		w.					cloudy?
S. S. City of New York, S. 36° —′, E. 175° 50′†	29.98	761.5	69	20.6	100	sw.			4	8		se.	o	o	mod.	se.	fair.
S. S. City of Pekin, Panama, Panama†	29.98	761.5	73	22.8	85	nw.			2	5		n.			sm'h		fair.
S. S. City of Sydney, S. 4° 41′, W. 167° 02′†	29.87	758.7	81	27.2	91	ne.			5	5		ne.	o	o	r'gh	ne.	fair.
S. S. Clyde, N. 7° 01′, W. 81° 06′†	29.95	760.7	76	24.4	91	e.			3	8		e.	o	o	light	s.	cloudy.
S. S. Colon, N. 35° 11′, W. 74° 23′†	30.18	766.6	78	25.6		e.			6	5		e.	o	o	long	ese.	fair.
S. S. South Carolina, Acajutla, San Salvador, C. A.†	30.03	762.7	80	26.7	70	n.			2	8		ne.	4 h'r	4 h'r	sm'h		
QUEBEC STEAMSHIP COMPANY.																	
S. S. Muriel, St. Kitts, W. I.	29.99	761.7	79	26.1		ene.			3	0			o	o	sm'h		fair.
RED STAR LINE.																	
S. S. Belgenland, Antwerp, Belgium†	30.12	765.0	58	14.4	86	ese.			3	4		e.					clear.
S. S. Nederland, N. 49° 27′, W. 15° 10′*†	30.56	776.2	54	12.2		ene.			2	5		e.	o	o	sm'h	ne.	fair.
S. S. Rhynland, N. 49° 46′, W. 7° 28′	29.96	761.2	52	11.1	73	se.			2	3			o	o	sm'h		clear.
S. S. Switzerland, N. 40° 24′ W. 72° 2 0′†	30.34	770.6				s.			2	10		s.	o	o	sm'h		cloudy.
S. S. Vaderland, N. 40° 07′, W. 59° 25′	30.38	771.6	44	6.7	84	ne.			1	8		ene.	o	o	long	n.	cloudy.
S. S. Waesland, N. 40° 04′, W. 50° 48′	30.32	770.1	38	3.3		nnw.			6	10		nnw.	rain	rain	high	nnw.	cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ROTTERDAM LINE.																		
S. S. Schiedam, N. 47° 00′, W. 37° 40′*	29.44	747.8	52.3	11.3	96	s.			8		7		sw.	5 h'r	5 h'r	high	ssw.	cloudy.
THINGVALLA LINE.																		
S. S. Thingvalla, Copenhagen, Denmark†	30.44	773.2	45.5	7.5		e.			2		2		e.	0	0			clear.
WARREN LINE.																		
S. S. Iowa, N. 42° 05′ W. 56° 29′*†	30.54	775.7	30	—1.1		nw.			5		3		nw.	0	0	h'vy	nnw.	clear.
WHITE STAR LINE.																		
S. S. Britannic, N. 40° 43′, W. 53° 12′†	30.29	769.4	36	2.2		nnw.			6		10		n.	0	0	high	n.	overcast.
S. S. Celtic, Liverpool, Eng.†	30.11	764.8	55	12.8		e.			5		5		ese.	0	0			fair.
S. S. Germanic, N. 46° 40′, W. 39° 00′†	29.56	750.8	50	10.0		wsw.			6		3?		w.	0	0	high	w.	cloudy?
WILSON LINE.																		
S. S. Otranto, N. 49° 30′, W. 19° 04′†	29.98	761.5	64	17.8		n.			2		2		n.	0	0	sm'h	nne.	clear.
WINSOR LINE.																		
S. S. Catherine Whiting, Philadelphia, Pa.†	30.42	772.7				ssw.			1				w.	0	0			
MISCELLANEOUS.																		
Sch. Addie Fuller, N. 25° 50′, W. 82° 12′†	30.22	767.6	71	21.7	95	e.			4		10 s		e.	0	0	mod.	e.	cloudy.
Bk. Adelaide, Rio de Janeiro, Brazil*†	30.20	767.1	78	25.6		n.							ne.					
Schr. Ajax, N. 26° 11′, W. 94° 00′†	30.10	764.5				e.			1		4		e.	0	0	mod.	e.	fair.
Bk. Alpha, N. 35° 20′, W. 69° 00′†	30.32	770.1	63	17.2		sse.			4		1		se.	0	0	mod.	ene.	fair.
Bk. Antioch, S. 27° 36′ W. 35° 25′*†	30.00	762.0	73	22.8		sse.			6		10		sse.	0	0	r'gh	sse.	overcast.
Schr. Asa Eldridge, Charlotte Harbor, Fla†	30.21	767.3				ene.			4		10		ese.	0	0			misty.
Bk. Aureola, N. 30° 54′, W. 39° 46′*†	30.15	765.8	70	21.1		s.			4		3		ssw	12 h'r	12 h'r	mod.	s.	fair.
Bk. Bergenseren, N. 36° 13′, W. 14° 50′†	30.06	763.5				nnw.			4				nnw.	0	0	4	nw.	clear.
Bk. Celestina, S. 10° 31′, W. 31° 20′*†	29.96	761.0				ese.			3		7		se.	sh'rs	sh'rs	sm'h	var.	fair.
Bk. Champion N. 37° 32′ W. 67° 45′†	30.01	762.2				se.			3		0			0	0	long	e.	
S. S. Compton, N. 32° 50′, W. 76° 54′†	30.38	771.6				e.			2		1		calm	0	0	light	e.	clear.
Bk. E. L. Pettengill, N. 4° 22′ W. 116° 00′†	29.90	759.4				var.			1		0			0	0	sm'h	ne.	
S. Enoch Train, N. 49° 58′, W. 12° 58′*	29.87	758.7				calm			0		2			0	0	light	ne.	fine.
S. Exporter, N 31° 40′, W. 35° 30′*†	30.20	767.1				e. to s.			4		2		sw.	0	0	long	n.	fine.
Ship Festina Lente, N. 52° 58′, W. 32° 40′*	29.92	760.0	38	3.3		s.			4		10		sw.	0	0	cross	w.	cloudy.
U. S. F. C. S. FishHawk, Washington, D. C.†	30.48	774.2	50	10.0	86	e.			2		10		e.	0	0			cloudy.
S. Grecian, S. 24° 25′, W. 33° 55′*†	30.05	763.3	76	24.4		ne.			5		3		ne.	1 h'r	1 h'r	long	sw.	clear.
Bk. Granville, S. 35° 26′, W. 2° 13′*†	30.60	777.2				ne.			1				nne.	0	0	long	sw.	clear.
Bk. Hattie G. McFarland, N. 31° 58′ W. 80° 00′*†	30.37	771.4	72	22.2		ese.			1		2		ne.	0	0	sm'h	se.	clear.
Schr. Henry Denison, Port Antonio, Jamaica†	30.04	763.0				ene.			4		3		ene.	0	0			fair.
S. Hedwig, N. 51° 41′, W. 29° 05′	30.01	762.2	44.2	6.8	65	wsw.			1		8		wsw.	1 h'r	1 h'r	4	w.	
John L. Thomas, N. 34° 12′ W. 72° 41′*†	30.38	771.6				sw.					2		w.	0	0	mod.	ne.	fine.
Bg. John Wesley, Sagua La Grande, Cuba, W. I. †	30.05	763.3	77	25.0		calm			0		2			0	0			clear.
Bk. Jenna, N. 38° 24′ W. 72° 18′*†	30.65	778.5				e.			3		1		w.	0	0	cross		fair.
Bk. Josephine, Aspinwall, Panama*†	30.06	763.5	82	27.8	67	nnw.			2		10			0	0			cloudy.
Bk. Liberia, N. 32° 30′, W. 35° 00′*	29.94	760.5	68	20.0	84	se.			4–6		5		sw.	4 h'r	4 h'r			
Light House Tender, Laurel, Key West, Florida†	30.11	764.8	72	22.2		ese.			6		10		e.	5 h'r	5 h'r	hv'y	ne.	cloudy.
S. S. Malabar, Cardiff, Wales,*†	30.47	773.9				nw.					0			0	0			fine.
Bg. Medina, N. 25° 30′, W. 76° 10′†	30.23	767.8				ene.			5		8		ene.			small	e.	raining.
S. S. Nebo, S. 9° 40′ W. 34° 20′*†	29.92	760.0				ese.			1		1		se.	0	0	sm'h		clear.
Bk. Peppina, N. 41° 43′, W. 10° 40′†	29.79	756.7	56	13.3	87	w.			4		2		w.			r'gh	w.	fair.
Bk. Pilgrim, S. 38° 38′, E. 151° 10′*†	30.25	768.3				se.			3		5		se.	shr's	sh'rs	long	s.	fair.
Bg. Potomac, N. 12° 34′, W. 57° 21′*†	29.98	761.5				ene.			4				ene.			h'vy	ene.	clear.
S. S. Radnorshire, N. 40° 04′ W. 64° 46′*†	30.40	772.1				s.			3		2		se.	0	0	mod.	ne.	clear.
S. Salisbury N. 33° 07′, W. 48° 05′*	30.34	770.5	57.7	14.3	76	nne.			6–7		10		nne.	7 h'r	7 h'r	r'gh	nw.	cloudy.
Bkt. Spotless, N. 11° 53′ W. 30° 26′*†	30.00	762.0				ene.							e.			mod.	ne.	fine.
Bk. Stella, S. 58° 28′, W. 63° 42′*	29.19	741.4	39.2	4.0	95	wsw.			4		7		wsw.			mod	sw.	showery.
S. S. Victoria J. Peed, N. 17° 53′ W. 74° 18′*†	30.02	762.5				s.			2		1					long		
S. Wm. Woodbury, N. 51° 38′, W. 24° 40′*†	29.65	753.1	50	10.0		wsw.			6				w.			long	ne.	cloudy.

International Chart I. April 4, 1882. Isobars and Isotherms.



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON APRIL 5, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours	.....	.....	29.90	759.5	62.2	16.8	81	e.	.....	.....	3	.....	4	.....	.....	0	0	cloudy	Meirond
Algiers	.....	.....	29.87	758.6	63.0	17.2	66	w.	.....	.....	2	.....	1	.....	.....	0.327	8.3	very fair	Nicolas.
La Calle	.....	.....	29.88	759.0	62.2	16.8	81	nw.	.....	.....	1	.....	4	.....	.....	inap.	inap.	cloudy	Fonfrède.
Tunis	.....	.....	29.87	758.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	29.98	761.4	67.6	19.8	48	nnw.	.....	.....	1	.....	2	.....	.....	0.039	1.0	fair	Dumas.
Tebessa	.....	.....	29.95	760.8	54.0	12.2	74	se.	.....	.....	1	.....	0	.....	.....	0	0	clear	Derché.
Geriville	.....	.....	.....	.....	65.8	18.8	26	w.	.....	.....	4	.....	3	.....	.....	0	0	pretty fair	Louchamp.
Laghouat	.....	.....	29.97	761.3	68.7	20.4	63	s.	.....	.....	2	.....	1	.....	.....	0	0	fair	Abraham.
Biskra	.....	.....	29.95	760.6	72.7	22.6	32	se.	.....	.....	3	.....	2	.....	.....	c	0	fair	Malau.
Australian.																			
Melbourne, Victoria	30.02	762.5	30.11	764.8	57.1	13.9	80	sse.	12	5.4	.....	.....	10	.....	.....	0.01	0.3	squally	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.48	748.8	30.03	762.8	53.6	12.0	54	ne.	.....	.....	3	.....	7	.....	.....	0	0	.....	Prof. Ivan Stozir
Cracow, I. R Observatory	29.47	748.4	30.25	768.3	46.4	8.0	41	e.	24.8	11.1	.....	.....	0	.....	.....	0	0	.....	Dr. Wierzbiski.
Eperies	29.24	742.6	30.13	765.3	47.5	8.6	36	n.	.....	.....	5	2 cs	0	s.	.....	0	0	.....	Julius Mikolik.
Gratz	28.85	732.7	30.13	765.2	45.5	7.5	82	se.	.....	.....	1	.....	10	.....	.....	0.406	10.3	.....	Andreas Rospini.
Hermannstadt	28.53	724.6	29.97	761.3	50.2	10.1	49	se.	.....	.....	3	.....	10	.....	.....	0	0	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.69	728.8	30.04	763.0	52.0	11.1	63	ene.	.....	.....	5	.....	0	.....	.....	0	0	clear	The Staff.
Lemberg	29.17	740.8	30.19	766.8	40.3	4.6	40	ne.	.....	.....	2	.....	6	.....	.....	0	0	.....	Dr. T. Stanecki.
Pola	29.81	757.1	29.92	759.9	60.6	15.9	51	e.	.....	.....	5	.....	5	.....	.....	0	0	.....	I. R. Hydrographic Office.
Szathmar	29.54	750.3	30.00	762.0	53.1	11.7	25	n.	.....	.....	4	.....	0	.....	.....	0	0	.....	Joseph Midlinszky, S. J.
Szegedin	29.71	754.7	30.00	761.9	51.3	10.7	79	nw.	.....	.....	1	.....	8	.....	.....	0.535	13.6	.....	Karl Stancel.
Trieste	29.85	758.1	29.95	760.7	62.6	17.0	39	ne.	.....	.....	4	.....	10	.....	.....	0	0	.....	Rieder.
Vienna	29.41	746.9	30.13	765.2	52.5	11.4	44	e.	.....	.....	2	.....	3	.....	.....	0	0	.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	30.29	769.4	30.39	771.9	44.3	6.8	71	ese.	12	5.4	.....	.....	9	.....	.....	0	0	overcast	W. Boswell.
Armagh, Observatory	30.04	763.0	30.28	769.1	46.4	8.0	69	ne.	9	4.0	.....	.....	9	.....	.....	.....	.....	overcast	S. Call.
Bidston, Liverpool Obs'y	.....	.....	30.18	766.6	45.0	7.2	84	ne.	15	6.7	.....	.....	10	.....	.....	.....	.....	overcast	John Hartnup.
Bolton, Sharples	29.62	752.3	30.16	766.1	42.2	5.7	79	ene.	24	10.7	.....	.....	10	.....	.....	.....	.....	raining	Thomas Mackereth. [A.S.
Bradford, Yorkshire	29.77	756.1	30.17	766.3	42.7	5.9	86	e.	.....	.....	3	.....	10	.....	.....	0.17	4.3	raining	J. McLandsborough, F. R
Bridgetown, Barbadoes	29.98	761.5	30.01	762.2	82.0	27.8	59	ne	.....	.....	2	.....	3	.....	.....	.....	.....	d. clouds	Corpl. J. Surgenor, A. H.C.
Cardington	.....	.....	30.06	763.5	49.0	9.4	81	ne.	.....	.....	1.0	.....	9	.....	.....	.....	.....	overcast	John McLaren.
Chatham, School M. E.	29.92	760.0	30.05	763.3	48.1	8.9	77	ne.	.....	.....	1	.....	9	.....	.....	blank	blank	gloomy	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	29.91	759.7	30.14	765.5	50.6	10.3	67	se.	.....	.....	1	.....	2	.....	.....	.....	.....	d. clouds	The Staff.
Fort Napier, Natal	27.70	703.6	29.91	759.7	79.0	26.1	54	n.	.....	.....	2	.....	3	.....	.....	.....	.....	blue sky	Pvt. E. K. Annis, A. H.C.
Free Town, Sierra Leone	29.67	753.6	29.90	759.4	83.0	28.3	70	calm	.....	.....	0	.....	3	.....	.....	.....	.....	blue sky	Sergt. John Robinson.
Gibraltar, Mediterranean	29.87	758.7	29.92	760.0	63.4	17.4	78	w.	.....	.....	4	.....	8	.....	.....	.....	.....	gloomy	Opl. O. Baldwin.
Glasgow, Observatory	30.10	764.5	30.30	769.6	45.2	7.3	63	e.	.....	.....	4	.....	10 k	.....	.....	.....	.....	d. clouds.	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.88	758.9	30.06	763.5	48.5	9.2	77	nne.	.....	.....	1	.....	10	.....	.....	.....	.....	drizzling	The Staff.
Guernsey	29.78	756.4	30.08	764.0	49.5	9.7	89	ene.	.....	.....	1	.....	8	.....	.....	.....	.....	d clouds	A. Collenette, F. M, S.
Kew, Observatory	30.04	763.0	30.07	763.8	47.9	8.8	70	n.	10	4.5	.....	.....	10	.....	.....	.....	.....	threatening	The Staff.
Leicester, Museum	29.83	757.7	30.10	764.5	43.8	6.6	88	n.	.....	.....	2	.....	10	.....	.....	.....	.....	drizzling	J. C. Smith.
Malta, Mediterranean	29.75	755.6	29.82	757.4	61.6	16.4	79	ne.	.....	.....	2	.....	8	.....	.....	.....	.....	overcast	I. H. Whysall.
Nassau, Bahamas	30.15	765.8	30.20	767.1	69.5	20.8	100	ne.	.....	.....	1	.....	10	.....	.....	.....	.....	raining	C. S. Duncombe.
Oscott, St. Mary's College	29.60	751.8	30.14	765.5	42.7	5.9	87	ne.	.....	.....	2	.....	10	.....	.....	.....	.....	overcast	John Mac Enail.
Oxford, Radcliffe Obs'y	29.86	758.4	30.09	764.3	45.0	7.2	85	nnw.	.....	.....	4	.....	10	.....	.....	.....	.....	threatening	The Staff.
Plymouth	30.04	763.0	30.11	764.8	51.0	10.6	64	ne.	.....	.....	2	.....	10	.....	.....	.....	.....	overcast	John Merrifield.
Sandwick Manse, Orkneys	.....	.....	30.41	772.4	45.8	7.7	68	se.	25	11.2	.....	.....	1	.....	.....	.....	.....	d. clouds	Rev. C. Clouston, L.,L.D.
Scutari Cemetery, Turkey	29.85	758.2	29.91	759.7	47.0	8.3	56	ne.	.....	.....	2	.....	9	.....	.....	.....	.....	gloomy	W. H. Lyne.
Sheffield	29.88	758.9	30.16	766.1	41.0	5.0	100	ne.	.....	.....	2	.....	10	.....	.....	0.31	7.9	raining	W. F. Cooper.
Silloth Rectory	30.21	767.3	30.23	767.8	45.1	7.3	72	e.	.....	.....	4	.....	10	.....	.....	0.020	0.5	overcast	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	30.20	767.1	42.2	5.7	81	ne.	15	6.7	.....	.....	10	.....	.....	.....	.....	overcast	Rev. S. J. Perry.
Stratfield Turgiss	29.87	758 7	30.09	764.3	47.4	8.6	81	n.	.....	.....	2	.....	10	.....	.....	.....	.....	d. clouds	Rev. C. H. Griffiths, F.M.S.
Truro, Royal Institution	30.09	764.3	30.13	765.3	60	15.6	66	ne.	.....	.....	3	.....	6	.....	.....	.....	.....	d. clouds	W. Newcombe.
Valencia, Observatory	30.19	766.8	30.22	767.6	51.2	10.7	78	nnw.	10	4.5	.....	.....	6	.....	.....	.....	.....	d. clouds	The Met'g'l Office.
Canadian.																			
Bathurst, N. B.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.19	766.8	30.24	768.1	18	— 7.8	70	n.	21	9.4	.....	0	0	.....	.....	0.080	2.0	clear	H. J. Cundall, C. E.
Chatham, N. B*	30.28	769.1	30.35	770.9	19	— 7.2	70	nw.	12	5.4	.....	0	0	.....	.....	0.01	0.3	clear	G. A. Blair.
Father Point, Quebec*	30.51	774.9	30.53	775.4	9	—12.8	91	n.	15	6.7	.....	0	2 k	.....	ne.	0	0	clear	J. McWilliams.
Fort Garry, Manitoba*	29.33	745.0	30.23	767.8	12	—11.1	100	se.	8	3.6	.....	0	0	.....	.....	0	0	clear	James Stewart.
Halifax, N. S*	30.04	763.0	30.18	766.6	30	— 1.1	74	n.	14	6.3	.....	0	0	.....	.....	0.066	1.7	clear	A. Allison.
Kingston, Ontario*	30.04	763.0	30.39	771.9	28	— 2.2	67	n.	18	8.0	.....	8 c	0	w.	.....	0.05	1.3	fair	A. P. Knight, M. A.
Montreal, Quebec*	30.26	768.6	30.48	774.2	23	— 5.0	56	ne.	17	7.6	.....	0	0	.....	.....	0.11	2.8	clear	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.71	754.6	30.46	773.7	22	— 5.6	58	ne.	12	5.4	.....	2 cs	0	nw.	.....	0.34	8.6	fair	Rev. R. Mosley.
Port Dover, Ontario	29.58	751.3	30.31	769.9	33	0.6	89	ne.	14	6.3	.....	.....	10 n	.....	.....	0.35	8.9	light rain	H. Morgan.
Port Stanley, Ontario	29.61	752.1	30.28	769.1	35	1.7	79	e.	10	4.5	.....	.....	10 n	.....	e.	0.22	5.6	light rain	M. Payne.
Quebec, Quebec*	30.13	765.3	30.48	774.2	26	— 3.3	.....	n.	.....	.....	1	0	0	.....	.....	0	0	clear	Capt. Ashe, R. N.
Rockliffe, Ontario*	30.07	763.8	30.57	776.5	16	— 8.9	67	n.	4	1.8	.....	0	0	.....	.....	0	0	clear	W. H. McIntyre.
Saugeen, Ontario*	29.61	752.1	30.37	771.4	30	— 1.1	67	ne.	19	8.5	.....	5 cs	0	.....	.....	0.41	10.4	fair	.....
St. Andrews, N. B	30.20	767.1	30.25	768.3	27	— 2.8	65	n.	6	2.7	.....	0	0	.....	.....	0	0	clear	.....
Sydney, C. B*	30.04	763.0	30.10	764.5	18	— 7.8	64	nw.	19	8.5	.....	0	2 k	w.	w.	0.04	1.0	clear	T. C. Hill, C. E.
Toronto, Ontario*	29.98	761.5	30.39	771.9	32	0.0	81	ne.	10	4.5	.....	5 ck	5 ks	.....	.....	0.09	2.3	cloudy	Magnetic Observatory.
Yarmouth, N. S*	30.12	765.0	30.19	766.8	33	0.6	85	n.	4	1.8	.....	0	0	.....	.....	0.17	4.3	clear	Lt. F. E. Wilmot, R. N.
Sub-series.																			
St. Johns, Newfoundland	29.57	751.1	29.83	757.7	35	1.7	.....	w.	4	1.8	.....	10 k	10 s	.....	.....	0	0	.....	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	29.96	761.0	29.99	761.7	69.0	20.6	78	w.	10.1	4.5	.....	.....	10 s	.....	.....	0	0	hazy	John Duthie.
Cape Town, C. G. H. Obs'y	29.90	759.4	29.94	760.5	89.0	31.7	33	nw.	9	4.0	.....	4	6	.....	.....	0	0	.....	The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	OBSERVERS.
CHINESE (*Sub-series*).																			
Hankow	30.30	769.6	30.59	777.0	46.9	8.3	65	s.			2		10			0	0		N. Titoushkin.
Zi-Ka-Wei, near Shanghai	30.35	770.9	30.38	771.6	44.6	7.0	73	calm	0	0			10			0	0	covered	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	30.46	773.7	30.51	774.9	41.7	5.4	72	ese.	25	11			0						Oversergent Fischer.
Fanöe	30.37	771.5	30.39	772.0	49.8	9.9	65	e.			4		0						Overlooerer Lauridsen.
Godthaab, Greenland	29.37	746.1	29.42	747.2	18.3	— 7.6	92	ene.			4		10						S. Kleinschmidt.
Stykkisholm, Iceland	29.76	756.0	29.81	757.1	43.2	6.2	90	se.			2		10					raining	A. O. Thorlacius.
Thorshavn	30.30	769.6	30.34	770.5	45.1	7.3	86	sse.	13	6			8						Overlooerer Bergh.
Vestervig	30.37	771.4	30.46	773.7	45.9	7.7	64	ene.			4		0						Loearer Oesterbol.
FRENCH.																			
Agen, Normal School	29.26	743.3	29.92	760.0	51.1	10.6	76	calm			0		k;kn			0	0		M. Labroue, Director.
Alençon, Normal School	29.48	748.7	30.03	762.7	50.0	10	66	ne.			4		k	s.	n.	0	0		M. Nicot, Director.
Arras, Engineer School	29.76	755.9	30.02	762.4	55.8	13.2	63	nne.			1		ks		n.	0	0		Capt. Bertrand, Dir.
Avignon, Normal School	29.81	757.2	29.89	759.2	68.0	20	47	ne.			1		2		sw.	0.110	2.8	slightly cl'dy	M. Giraud, Director.
Bar-sur-Seine	29.38	746.3	29.93	760.1	64.4	18.0	44	se.			1		6			0	0	cloudy	M. Saillard, Director.
Beauvais, Normal School	29.75	755.6	30.02	762.4	52.2	11.2	57	e.			1		2		ene.	0	0	slightly cl'dy	M. Frère Eugène Mari.
Besançon, Normal School	28.99	736.3	29.87	758.8	61.2	16.2	59	ene.			1	0	1 cn		nw.	0	0	clear	M. Gobin, Director.
Bordeaux, Observatory	29.63	752.6	29.89	759.1	59.0	15.0	61	nnw.			1		8		n.	0	0	very cloudy	M. Rayet, Director.
Bourges, Normal School	29.37	745.9	29.96	760.9	61.7	16.5	56	n.			1		k		n.	0	0		M. Postel, Director.
Brest, Naval Observatory	29.82	757.4	30.06	763.6	52.9	11.6	63	ne.			3		7		ne.	0	0		M. de Kermaree, Dir.
Caen, Normal School	29.94	760.5	30.02	762.4	52.9	11.6	59	ne.			1		2		ne.	0	0	slightly cl'dy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.59	751.5	29.90	759.4	66.2	19.0	54	calm			0		0			0	0	clear	M. Jadot, Director.
Charleville, Normal School	29.47	748.5	29.98	761.4	59.0	15.0	52	e.			1		0			0	0	clear	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.56	725.5	29.89	759.3	61.2	16.2	62	ne.			2		8			0.110	2.8	¾ covered	M. Alluard, Director.
Cluny, Normal School	29.08	738.7	29.91	759.8	60.1	15.6	60	n.			2					0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.11	739.5	29.98	761.5	62.4	16.9	53	ene.			1	2 c		ene.	ene.	0	0	slightly cl'dy	Dr. Coulet, Director.
Gap, Normal School	27.35	694.6	29.81	757.2	57.9	14.4	35	s.			1		2		nw.	0	0		M. Jeangirard, Director.
Gréasque, du. Rhone	28.78	730.9	29.89	759.1	61.2	16.2	52	sw.			2		7		sw.	0.220	5.6		M. Kina, Director.
Grenoble, Normal School	29.14	740.1	29.89	759.3	62.2	16.8	55	nw.			2		k			0	0		M. Ablard, Director.
Guéret, Normal School	28.31	719.0	29.87	758.6	58.8	14.9	49	e.			1		kn		ne.	0	0		M. Rivoire, Director.
Lamballe, Normal School	29.82	757.5	30.10	764.5	51.8	11	63	ne.			3		5		ne.	0	0	cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.29	743.9	29.85	758.2	55.0	12.8	68	s.			1		5			0	0	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	29.93	760.3	30.04	762.9	57.7	14.3	61	ne.			3		2		ne.	0	0	¼ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.86	733.0	29.89	759.3	64.0	17.8	38	e.			1	0	5 k		s.	0	0	½ covered	M. André, Director.
Mans, Normal School	29.71	754.5	30.02	762.4	54.5	12.5	68	n.			1		0			0.429	10.9	clear	M. Piboen, Director.
Marseille, Observatory	29.63	752.6	29.90	759.4	61.3	16.3	61	sw.			2		7		sc.	0	0	thunder	M. Stephan, Director.
Montlouis l'instituteur	24.65	626.1	29.49	749.1	39.9	4.4	91	ne.	5.6	2.5			8	e.					M. Cave, for Dr. Fines.
Montpellier, Normal School	29.75	755.7	29.88	758.9	66.6	19.2	54	se.			2		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.15	740.5	29.92	760.0	61.2	16.2	49	nne.			2	0	0			0	0	clear	M. Hasse, Director
Nantes, Observatory	29.84	758.0	30.00	762.1	57.6	14.2	56	nne.			1–3	0	1 k			0	0		M. Larocque, Director.
Perpignan, Observatory	29.78	756.5	29.90	759.5	58.6	14.8	69	s.	7.4	3.3			1c		ese.	0.150	3.8		Dr. Fines, Director.
Pic-du-Midi, Summit	20.98	533.0			25.7	— 3.5		calm			0		10		ne.	0.362	9.2	snowy	Gen'l de Nansouty, Dir.
Privas, Normal School	28.84	732.5	29.89	759.1	61.7	16.5	46	s.			1		10 n		s.	0	0	covered	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.03	635.8			41.0	5.0	93	e.			2		10			0.071	1.8	covered	M. Alluard, Director.
Rochefort, Naval Obs'y	29.87	758.6	29.90	759.4	58.6	14.8	91	ne.			1		8		n.	0.032	0.8	¾ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.71	754.7	29.97	761.1	56.5	13.6	71	ne.			3		0			0	0	clear	M. Mouillot, Director.
Rodez, Normal School	27.74	704.6	29.86	758.5	56.8	13.8	47	e.			1		5			0	0	fair	M. Serger, Director.
Rouen, Normal School	29.98	761.6	30.03	762.8	55.8	13.2	51	n.			1		5		ne.	0	0	cloudy	M. Brotier.
Saint Maur, Observatory	29.83	757.7	30.00	761.9	55.9	13.3	53	n.			1		0			0	0		M. Renou, Director.
Toulouse, Observatory	29.17	740.9	29.89	759.2	61.9	16.6	67	e.			1		8		se.	0	0	very cloudy	M. Bailland, Director.
Versailles, Observatory	29.51	749.6	30.00	762.1	54.7	12.6	55	ne.			2					0	0		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.71	754.7	30.00	762.1	53.8	12.1	57	ne.			1		0			0	0		M. Marié Davy, Director
GERMAN.																			
Bamberg	29.23	742.4	30.08	764.1	57.7	14.3	30	ese.			6	0	0			0	0		Prof. Dr. Hoh.
Berlin	30.13	765.3	30.31	769.9	51.8	11.0	33	ne.			5		0			0	0		Prof. Dr. Arndt.
Breslau	29.78	756.5	30.32	770.1	47.3	8.5	35	e.			2		0			0	0		Royal University Obs'y.
Carlsruhe	29.57	751.1	30.00	762.0	59.7	15.4	57	e.			2		9	e.		0	0		Albert Senz.
Cassel	29.39	746.6	30 11	764.7	55.0	12.8	50	ne.			4		0			0	0		Dr. H. Möhl.
Frankfort on the Main	29.68	753.9	30.04	763.1	62.1	16.7	41	e.			2		1			0	0		Physical Society.
Friedrichshafen	28.53	724.6	29.96	760.9	54.7	12.6	69	ne.			4		6	ne.		0	0		Wilhelm, Chief Tel.
Hamburg	30.22	767.7	30.32	770.1	51.4	10.8	44	e.			4		0			0	0		E. Preller.
Kiel	30.34	770.7	30.36	771.1	46.4	8.0	64	ene.			4		0			0	0		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.80	756.8	30.22	767.7	49.8	9.9	49	e.			6		1			0.012	0.3	stormy	H. Leppig, Asst.
Magdeburg	30.06	763.6	30.26	768.5	53.4	11.9	47	e.			1	0	0			0	0		Dr. Assmann.
Memel	30.52	775.1	30.56	776.3	43.0	6.1	27	ne.			4	0	0					clear	Issermann.
Munich	28.17	715.6	30.04	762.9	54.0	12.2	54	se.			4		3	e.		0	0		Central Station.
Neufahrwasser	30.50	774.7	30.52	775.1	39.4	4.1	66	ne.			2		0			0	0		A. Lothes.
Neustadt, Palatinate	29.49	749.0	30.02	762.4	57.2	14.0	66	e.			2		10	e.		0	0		Dicknether.
Stuttgart	29.05	737.9	29.94	760.4	58.1	14.5	62	s.			1		5	e.		0	0		Prof. Dr. Schoder.
Wustrow	30.42	772.7	30.45	773.3	47.7	8.7	67	ene.			4	0	0			0	0		Profs. Brandes & Reimer
GREEK.																			
Athens	29.52	749.9	29.92	760.0	56.8	13.8		ne.			4.0	3	0			0	0		Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.79	756.7	29.84	758.0	80.1	26.7	74	wsw.	37.0	16.5			5	w.		0	0	d. clouds	
Deesa	29.26	743.1	29.72	754.8	92.7	33.7	30	wsw.	11.7	5.2			8	wsw.		0	0	d. clouds	
Bombay	29.76	755.8	29.79	756.7	86.3	30.2	58	nw.	13.0	5.8			0			0	0	blue sky	
Poona, Yarrowda	27.92	709.3	29.72	754.8	95.4	35.2	12	nw.	22.0	9.8			2	wsw.		0	0	d. clouds	
Belgaum	27.24	692.0	29.73	755.1	85.3	29.6	60	sw.	11.0	4.9			1	e.		0.04	1.0	showery	
Lahore	28.99	736.3	29.72	754.9	85.5	29.7	32	w.	2.4	1.1			8		w.	0	0	gloomy	
Roorkee	28.79	731.2	29.67	753.6	87.2	30.7	17	nw.	5.1	2.3			8			0	0	blue sky	
Agra	29.16	740.5	29.70	754.4	94.1	34.5	20	n.	4.4	2.0			6		n.	0	0		
Nagpur	28.68	728.5	29.69	754.1	97.7	36.5	12	nnw.	3.7	1.6			8		w.	0	0	d. clouds	
Jubbulpore	28.41	721.6	29.73	755.1	92.7	33.7	13	calm	1.7	0.8			4		n.	0	0	d. clouds	
Lucknow	29.34	745.2	29.70	754.4	94.0	34.4	31	wnw.	8.7	3.9			6			0	0	d. clouds	
Allahabad	29.42	747.2	29.72	755.0	90.7	32.6	22	nnw.	3.5	1.6			10			0	0	overcast	
Patna	29.55	750.7	29.73	755.2	91.6	33.1	15	nw.	6.4	2.9			6	nw.	nw.	0	0	d. clouds	
Hazaribagh	27.75	704.8	29.71	754.6	89.8	32.1	17	sw.	10.6	4.7			8	sw.	ne.	0	0		
Cuttack	29.64	752.8	29.72	754.8	92.6	33.7	50	se.	1.8	0.8			2			0	0	d. clouds	
Calcutta, Alipore	29.71	754.6	29.73	755.1	91.1	32.8	30	wnw.	1.0	0.5			0			0	0	blue sky	
Dhubri	29.62	752.3	29.74	755.3	84.5	29.2	33	calm	5.3	2.4			7	sw.		0	0	d. clouds	
Chittagong	29.73	755.1	29.82	757.4	81.2	27.3	86	sw.	7.5	3.4			5			0	0		
Sibsagar	29.45	748.0	29.79	756.6	78.9	26.1	70	ne.	6.9	3.1			6	sw.	sw.	0.02	0.5	d. clouds	
Jeypore	28.30	718.9	29.72	754.8	88.7	31.5	23	ssw.	3.4	1.5			9	ssw.		0	0	d. clouds	
Zanzibar, Africa	29.80	756.9			77.5	25.3	88	ssw.	10.1	4.5			10		se.	1.76	44.7	raining	
Bellary	28.24	717.3			99.0	37.2	22	se.	5.5	2.5		3 ck	6			0	0	gloomy	
Trichinopoly	29.48	748.8			102.4	39.1	24	sse.	2	0.9			0			0	0	blue sky	
ITALIAN.																			
Udine	29.56	750.9	29.97	761.3	64.0	17.8	37	e.	3.8	1.7			8			0.169	4.3		Prof. Giovanni Clodig.
Milan	29.45	748.0	29.97	761.1	64.2	17.9	44	se.	2.5	1.1			3	ese.		0	0		Prof. Schiaparelli.
Padua	29.85	758.1	29.96	760.9	62.2	16.8	48	ese.	16.8	7.5			2	sse.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.05	737.8	29.95	760.7	58.5	14.7	43	n.	4.9	2.2			9	se.		0.362	9.2		Prof. P. F. Denza.
Genoa	29.72	754.8	29.91	759.6	62.6	17.0	48	w.	4.3	1.9			8	e.		0.008	0.2		Prof. G. M. Garibaldi.
Mondovi	28.03	711.9	29.95	760.7	56.1	13.4	60	w.			6		6			0	0		Prof. D. O. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
ITALIAN.—Continued.																			
Pesaro	29.88	758 9	29.93	760.1	58.1	14.5	80	n.	13.0	5.8	.....	.....	3	.....	.....	0	0	.....	Prof. Luigi Guidi.
Florence	29.62	752.4	29.87	758.8	66.2	19.0	35	ne.	.....	.....	2	.....	5	.....	.....	0	0	.....	Prof. Costantino Pitter.
Leghorn	29.74	755.4	29.83	757.6	63.3	17.4	52	nw.	0.7	0.3	.....	.....	5	.....	.....	0.024	0.6	....	Prof. P. Monte.
Rome	29.68	753.9	29.85	758.3	66.6	19.2	37	s.	5.6	2.5	.....	.....	2	.....	.....	0.122	3.1	.....	Prof. P. S. Ferrari.
Lecce	29.61	752.2	29.87	758.6	61.5	16.4	70	w.	8.1	3.6	.....	.....	4	wnw.	.....	0	0	.....	Prof. C. de Giorgi.
Cosenza	28.99	736.4	29.88	759.0	60.1	15.6	73	sse.	3.1	1.4	.....	.....	9	se.	.....	0.055	1.4	.....	Prof. D. Conti.
Cagliari	29.64	752.8	29.83	757.7	60.8	16.0	64	s.	.....	.....	2	.....	3	.....	.....	0.012	0.3	.....	Prof. A. Pacinotti.
Palermo	29.63	752.6	29.88	758.9	63.5	17.5	41	ne.	8.1	3.6	.....	.....	1	.....	.....	0.016	0.4	.....	Prof. G. Ciacciatore.
Syracuse	29.80	756.8	29.84	757.9	57.2	14.0	69	e.	6.3	2.8	.....	.....	8	wnw.	.....	0.236	6.0	.....	Prof. Vincenzo Guiliano.
Sub-series.																			
Naples, S. It	29.32	744.8	29.84	757.9	64.0	17.8	59	wsw.	2.5	1.1	.....	.....	7	nw.	.....	0	0	.....	Prof. T. Brioschi.
Stelvio	22.08	560.8	.....	.....	35.6	2.0	59	se.	.....	.....	1	.....	7	.....	.....	0	0	misty.....	Prof. P. F. Denza.
Valdobbia	22.11	561.6	.....	.....	28.9	— 1.7	75	e.	.....	.....	6	.....	10	.....	.....	0.236	6.0	covered.....	Prof. P. F. Denza.
JAPANESE.																			
Aomori	29.83	757.7	29.87	758.7	39.2	4.0	67	w.	26.7	11.9	.....	ck	4 ks	.....	.....	0	0	fair.....	K. Ogawa.
Hakodate	29.78	756.4	29.79	756.6	40.5	4.7	66	w.	16.4	7.3	.....	.....	9	.....	.....	0	0	overcast.....	
Hiroshima, I. M. Obs'y	30.13	765.3	30.14	765.5	45.1	7.3	70	nne.	3.7	1.6	.....	ck	10 s	.....	w.	0	0	overcast	K. Sasaki.
Kanazawa	30.06	763.5	30.16	766.0	43.7	6.5	78	w.	2.8	1.3	.....	ck	10 ks	.....	.....	0.030	0.8	overcast.....	S. Endo.
Kioto	29.96	761.0	30.14	765.5	43.0	6.1	90	calm	0	0	.....	10 ck;cs	0	.....	.....	0	0	clear.....	M. Tojima.
Kochi	30.12	765.0	30.14	765.5	51.6	10.9	59	se.	2.5	1.1	.....	10 ck	0	.....	.....	0	0	.....	
Nagasaki, I. M. Obs'y	30.03	762.7	30.24	768.1	47.1	8.4	66	n.	2.9	1.3	.....	.....	10 s	.....	.....	0	0	overcast.....	S. Takehayashi.
Niigata	30.06	763.5	30.10	764.5	45.7	7.6	63	w.	19.6	8.8	.....	10 ck	0	w.	.....	0.020	0.5	cloudy	
Nobiru	29.97	761.2	29.99	761.7	44.5	6.7	61	wsw.	9.9	4.4	.....	0	5 s	.....	.....	0	0	fair	H. Midzushina.
Supporo	.....	.....	.....	.....	39.1	3.9	74	nw.	7.2	3.2	.....	.....	10	.....	.....	inap.	inap.	covered.....	
Tokei Obs'y, Yeddo	29.95	760.7	30.02	762.5	52.6	11.4	84	ene.	3.5	1.6	.....	.....	10 ks	.....	e.	inap.	inap.	overcast.....	The Staff.
Wakayama	30.09	764.3	30.14	765.5	46.7	8.2	80	calm	0	0	.....	10 ck	0	w.	.....	0	0	cloudy.....	Y. Kuwamuea.
MAURITIUS.																			
Mauritius Observatory	29.72	754.9	29.90	759.4	80.0	26.7	69	e.	17.0	7.6	.. ..	0	2 ks	.....	sse.	0	0	fair.....	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.70	602.0	29.92	760.7	60.8	16.0	59	sw.	.....	.....	.....	0	0	.....	.....	0	0	foggy.....	Vicente Fernandez.
Leon	24.37	619.0	30.04	763.0	58.1	14.4	75	nne.	.....	.....	1	7 c	0	s.	.....	0	0	dense fog....	Prof. M. Leal.
Mazatlan	29.74	755.4	30.00	762.0	65.0	18.3	94	e.	1.6	0.8	.....	5 cs	0	calm	.....	0	0	hazy	F. Quijano, C. E.
Mexico, Central Obs'y	23.07	585.7	30.15	765.7	50.5	10.3	75	calm	0	0	.....	0	0	.....	.....	0	0	fine.....	The Staff.
Morelia	24.17	614.0	30.29	769.3	58.1	14.5	75	se.	.....	.....	2	0	0	.....	.....	inap.	inap.	raining.....	M. Tena, M. D.
Pabellon, Aguascalientes	23.91	607.3	29.93	760.3	58.1	14.5	74	sw.	.....	.....	1	4 c	0	.....	.....	0	0	clear.....	M. V. de Leon, M. E.
Puebla, Catholic Institute	23.38	593.9	30.11	764.8	54.7	12.6	88	calm	0	0	.....	0	8	.....	s.	0	0	covered.....	Prof. P. Spina.
San Luis Potosi	24.14	613.1	30.14	765.6	57.4	14.1	70	e.	.....	.....	1	3	0	w.	.....	0	0	foggy.....	G. Barroeta, M. D.
Zacatecas	22.58	573.6	30.21	767.3	56.8	13.8	65	calm	0	0	.....	0	0	.....	.....	0	0	fine.....	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.07	763.7	30.07	763.7	54.0	12.2	.....	se.	.....	.....	3	.....	.....	.....	.....	0.008	0.2	.....	
Groningen	30.13	765.4	30.19	766.8	52.3	11.3	....	e.	.....	.....	5	.....	.....	.....	.....	0.059	1.5	.....	
Helder	30.11	764.8	30.11	764.8	49.8	9.9	.....	e.	.....	.....	4	.....	.....	.....	.....	0.024	0.6	.....	
Hellevoetsluis	30.05	763.3	30.05	763.3	55.6	13.1	74	e.	.....	.....	2	.....	.....	.....	.....	0.008	0.2	.....	
Utrecht	30.04	763.1	30.09	764.3	57.6	14.2	65	ese.	.....	.....	3	.....	.....	.....	.....	0	0	.....	H. van der Briuk.
NORWEGIAN.																			
Bergen	30.44	773.2	30.50	774.8	50.0	10.0	37	nnw.	7	3	.....	.....	0	.....	.....	0	0	.....	
Brono	30.52	775.1	30.56	776.1	41.9	5.5	56	calm	0	0	.....	.....	0	.....	.....	0	0	... .	
Christiania	30.43	772.9	30.58	776.7	47.8	8.8	60	sw.	4	2	.....	.....	0	.....	.....	0	0	.....	
Gjesvær	30.14	765.5	30.16	766.1	38.1	3.4	.....	w.	.....	.....	7	.....	10	.....	.....	.....	.....	.....	
Lodingen	30.46	773.6	30.50	774.8	36.3	2.4	94	w.	.....	.....	2–4	.....	10	.....	.....	.....	.....	.....	
PORTUGUESE.																			
Angra, Azores	.....	.....	.....	.....	59.7	15.4	83	sse.	18.6	8.3	.....	.....	7	.....	.....	0	0	.....	Dr. J. A. Sampaio.
Campo Major	28.87	733.3	29.87	758.8	55.4	13.0	57	n.	5.6	2.5	.....	.....	9	.....	.....	0.382	9.7	.....	Dr. A. M. R. dos Santos.
Funchal, Maderia	30.07	763.8	30.16	766.1	62.6	17.0	57	sw.	.....	.....	.....	.....	9	.....	.....	0	0	.....	Capt. D. A. de Cunha.
Lisbon, Observatory	29.60	751.8	29.96	761.0	56.5	13.6	65	nw.	14.3	6.4	.....	.....	5	.....	.....	0.504	12.8	.....	The Staff.
Ponta Delgada, Azores	30.13	765.4	30.21	767.2	63.3	17.4	59	sse.	15.4	6.9	.....	.....	4	.....	.....	0	0	.....	
Saint Paul de Loando	29.69	754.1	29.89	759.2	82.0	27.8	87	ese.	0.7	0.3	.....	.....	8	.....	.....	0	0	.....	
Serra da Estrella	25.08	637.1	29.95	760.8	32.4	0.2	100	nnw.	20.6	9.2	.....	.....	10	.....	.....	0.197*	5.0*	fog & sleet..	
RUSSIAN.																			
Akmolinski	28.21	716.5	29.30	744.1	34.3	1.3	96	sw.	18	8	.....	.....	10 n	.....	.....	0.043	1.1	.....	Major K. Lasarew.
Archangel	30.15	765.7	30.17	766.2	30.9	— 0.6	85	nw.	9	4	.....	.....	10	.....	.....	0	0	light clouds.	Capt. Sselliwerstow.
Astrakhan	29.86	758.4	29.78	756.3	49.3	9.6	43	wsw.	11	5	.....	.....	10 ks	.....	.....	0	0	.....	Capt. Wisganow.
Barnaul	29.16	740.7	29.67	753.5	42.1	5.6	48	sw.	4	2	.....	.....	9	.....	.....	0	0	light clouds	Meteorological Obs'y.
Dorpat	30.31	769.8	30.56	776.3	36.5	2.5	44	ene.	7	3	.....	0	0	.....	.....	0	0	.....	Observatory.
Ekaterinburg	28.85	732.8	29.87	758.7	18.9	— 7.3	47	ne.	13	6	.....	.....	7	.....	.....	0	0	.....	Meteorological Obs'y.
Kasan	29.65	753.0	29.93	760.3	21.4	— 5.9	64	nne.	31	14	.....	.....	10	.....	.....	0.004	0.1	.....	Observatory.
Kertch	29.89	759.3	29.91	759.8	37.6	3.1	61	ne.	7	3	.....	0	1 k	.....	.....	0.039	1.0	.....	Lagorio & Sastyrez.
Kieff	29.50	749.2	30.17	766.3	29.3	— 1.5	45	nne.	13	6	.....	c	7 ks;n	.....	.....	0.008	0.2	.....	Observatory.
Lugan	29.71	754.5	29.92	759.9	32.4	0.2	50	nnw.	22	10	.....	.....	10	.....	.....	blank	blank	.....	Meteorological Obs'y
Moscow	29.68	753.8	30.19	766.8	26.1	— 3.3	37	n.	4	2	.....	0	0	.....	.....	0	0	.....	Meteorological Obs'y.
Nikolaiev	30.09	764.2	30.16	766.0	41.2	5.1	58	nw.	4	2	.....	0	6 km	.....	.....	0	0	.....	Capt. Kurdakow.
Nikolaievsk, on the Amoor	29.35	745.4	29.43	747.6	16.9	— 8.4	58	w.	9	4	.....	.....	4	.....	.....	0	0	.....	Lieut. Iwanow.
Pekin, China	30.03	762.7	30.17	766.3	54.7	12.6	25	calm	0	0	.....	0	0	.....	.....	0	0	.....	Physical Observatory
St. Petersburg	30.48	774.3	30.50	774.7	32.7	0.4	55	wnw.	9	4	.....	0	1 s	.....	.....	0	0	.....	Central Physical Obs'y
Ssemipalatinsk	29.00	736.7	29.67	753.5	42.8	6.0	56	sse.	9	4	.....	9 c	0	.....	.....	0	0	heavy cl'ds.	Major Lasaren.
Tashkend, Laboratory	28.22	716.8	29.74	755.4	68.0	20.0	48	ne.	9	4	.....	.....	5	.....	.....	0.008	0.2	light clouds	Teich, A. M.
Tiflis	28.32	719.3	29.74	755.4	50.5	10.3	54	nw.	9	4	.....	.....	10 s	.....	.....	0.039	1.0	.....	Physical Observatory
Vladivostok	29.88	758.9	29.95	760.6	38.8	3.8	36	w.	13	6	.....	0	7 k	.....	.....	0	0	.....	
Warsaw	29.94	760.4	30.38	771.6	41.0	5.0	31	ene.	10	7	.....	0	0	.....	.....	.....	.....	.....	Astronomical Obs'y
Wilna	30.02	762.5	30.46	773.7	38.1	3.4	41	nne.	7	3	.....	.....	1	.....	.....	0	0	light clouds	Berg, Assistant.
Yeniseisk	29.16	740.6	29.44	747.8	44.2	6.8	56	sw.	40	18	.....	.....	10	.....	.....	0	0	.....	M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	29.78	756.4	29.88	759.0	56.5	13.6	79	se.	2.0	0.9	.....	... .	10	.....	.....	0	0	misty.....	Antonio Rave, Director.
Bilbao, Met. Obs'y	29.87	758.6	29.93	760.1	61.5	16.4	68	n.	1.3	0.6	.....	2	8	n.	.....	0.012	0.3	covered.....	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	26.91	683.4	29.93	760.1	44.6	7.0	84	ne.	4.0	1.8	.....	.....	8	.....	.....	0.236	6.0	cloudy.....	Domingo Martin.
Madrid, Royal Obs'y	27.61	701.2	29.84	757.8	54.1	12.3	64	s.	2.9	1.3	.....	.....	9	.....	.....	0.472	12.0	almost cov'd	The Staff.
Murcia, Met. Obs'y	29.64	752.8	29.78	756.5	66.9	19.4	53	ese.	5.6	2.5	.....	5	5	ne.	.....	0.406	10.3	cloudy.....	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.04	737.7	29.94	760.5	55.6	13.1	61	n.	26.2	11.7	.....	.....	7	.....	.....	0.315	8.0	cloudy.....	R. Gil Vallanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I	30.02	762.4	30.08	764.1	72.1	22.3	91	e.	3.1	1.4	.....	2 c	5 ck	w.	wsw.	0	0	fair.....	Benito Vines, S. J.
Manilla, Philippine Islands	29.92	760.0	29.98	761.4	80.6	27.0	54	ese.	6.6	3.0	.....	0	8	.....	.....	0	0	clear.....	F. Faura, S. J.
San Fernando, Naval Obs'y	29.83	757.7	29.93	760.2	58.6	14.8	66	wnw.	6.1	2.7	.....	0	8	.....	w.	0.277	7.0	.....	Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	30.04	762.9	30.13	765.2	74.5	23.6	89	se.	11.9	5.3	.....	3 k	4 km	se.	se.	0.087	2.2	cloudy.....	Manuel Maeu.
Tuguegarao, Philippine Id's	29.87	758.7	30.00	762.0	78.2	25.7	72	nw.	6.3	2.8	.....	0	0	.....	.....	0	0	clear.....	José L. Yrastorza.
SWEDISH.																			
Haparanda	30.37	771.5	30.41	772.5	42.1	5.6	55	n.	.....	.....	2	.....	0	.....	.....	0	0	.....	
Umea	30.48	774.1	30.53	775.4	45.3	7.4	53	ne.	.....	.....	2	.....	0	.....	.....	0	0	.....	
Hernosand	30.48	774.3	30.54	775.6	49.5	9.7	39	ese.	.....	.....	2	.....	0	.....	.....	0	0	.....	
Stockholm	30.42	772.6	30.60	777.1	44.6	7.0	39	wnw.	.....	.....	2	.....	0	.....	.....	0	0	.....	
Wisby	30.51	774.9	30.57	776.4	40.6	4.8	65	nne.	.....	.....	2	.....	0	.....	.....	0	0	.....	
Sub-series.																			
Upsala	30.47	773.9	30.56	776.1	47.5	8.6	45	sw.	7.2	3.2	.....	.. ..	0	.....	.....	0	0	.....	S. G. Fineman.
SWISS.																			
Geneva	28.52	724.5	29.96	760.9	52.5	11.4	60	nne.	.....	.....	2	.....	.....	.....	.....	0	0	cloudy	The Observatory

* Total for last two days.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
TURKISH.																			
Constantinople	.....	.....	29.95	760.7	46.0	7.8	61	ne.	20	9.0	.....	.....	10	.....	ne.	0	0	.....	The Observatory.
Valona	.....	.....	29.89	759.3	65.3	18.5	.....	nw.	.....	.....	1	.....	5	.....	.....	0	0	cloudy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	29.71	754.6	63.1	17.3	82	sw.	.....	.....	4	0	8 n	.....	sw.	1.425	36.2	.....	Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	30.25	768.3	30.33	770.4	38.5	3.6	58	n.	10	4.5	.....	.....	10 s	.....	n.	0.13	3.3	cloudy	J. O. Barnes.
Alpena, Michigan	29.74	755.4	30.43	772.9	26	— 3.3	64	e.	14	6.3	.....	4 cs	1 s	w.	....	0	0	fair	Jas. J. Fitzgerald.
Atlanta, Georgia	29.09	738.9	30.28	769.1	60.5	15.8	71	e.	6	2.7	.....	6 c	0	calm	.....	0	0	fair	H. Hall.
Atlantic City, New Jersey	30.12	765.0	30.12	765.0	52	11.1	93	sw.	5	2.2	.....	.....	10 n	.....	w.	0.01	0.3	light rain	Jas. M. Watson.
Augusta, Georgia	30.13	765.3	30.32	770.1	58.0	14.4	86	calm	0	0	.....	0	0	.....	.....	0	0	clear	John Healy.
Baltimore, Maryland	30.10	764.5	30.15	765.8	60	15.6	81	calm	0	0	.....	.....	fg.	.....	.....	0	0	dense fog	Robert Seyboth.
Barnegat, New Jersey	30.14	765.5	30.16	766.1	49.2	9.6	100	n.	6	2.7	.....	.....	10 n	....	n.	0.02	0.5	light rain	Chas. F. Merritt.
Bismarck, Dakota	28.10	713.7	29.97	761.2	27	— 2.8	88	e.	11	4.9	.....	.....	10 s	.....	.....	0	0	cloudy	Cyrus Cramer.
Boise City, Idaho	27.08	687.8	29.92	760.0	42.3	5.7	83	w.	2	0.9	.....	0	5 s	.....	sw.	0	0	fair	B. E. Light.
Boston, Massachusetts	30.12	765.0	30.28	769.1	39.0	3.9	54	ne.	16	7.2	.....	.....	10 s	.....	ne.	0.02	0.5	cloudy	O. B. Cole.
Brownsville, Texas	29.90	759.4	29.95	760.7	71	21.7	94	se.	4	1.8	.....	6 k	0	se.	.....	0	0	fair	J. C. Galloway.
Buffalo, New York	29.55	750.6	30.32	770.1	33.8	1.0	68	n.	13	5.8	.....	.....	10 s	.....	w.	0.69	17.5	cloudy	Wm. Finn.
Burlington, Vermont	30.10	764.5	30.40	772.1	27.3	— 2.6	58	n.	15	6.7	.....	0	0	.....	.....	0.16	4.1	clear	G. C. Schaeffer.
Cairo, Illinois	29.75	755.6	30.16	766.1	67.6	19.8	62	s.	5	2.2	.....	8 cs	hz.	.....	.....	0	0	cloudy	W. H. Ray.
Campo, California	27.48	698.0	30.06	763.5	39	3.9	92	ne.	3	1.3	.....	0	0	.....	.....	0.15	3.8	clear	W. H. Clendenon.
Camp Thomas, Arizona	27.25	692.1	29.98	761.5	44	6.7	76	nw.	.....	.....	1	0	0	.....	.....	0	0	clear	J. T. Fitzgerald.
Cape Henry, Virginia	30.17	766.3	30.19	766.8	63	17.2	84	sw.	20	8.9	.....	6 ck;k	hz.	sw.	.....	0	0	fair	J. E. Lanouette.
Cape May, New Jersey	30.11	764.8	30.14	765.5	55	12.8	80	sw.	7	3.1	.....	.....	10 s	.....	sw.	0.02	0.5	cloudy	W. Bolten.
Cedar Keys, Florida	30.16	766.1	30.18	766.6	67	19.4	84	ne.	9	4.0	.....	0	0	.....	.....	0	0	clear	F. W. Mixer.
Champaign, Illinois	29.26	743.2	30.10	764.5	48.8	9.3	86	ne.	6	2.7	.....	.....	10 s	....	ne.	0	0	cloudy	L. A. Welsh.
Charleston, S. Carolina	30.23	767.8	30.29	769.4	61	16.1	93	ne.	2	0.9	.....	.....	10s;fg	.....	calm	0	0	dense fog	J. H. Smith.
Charlotte, N. Carolina	29.40	746.7	30.26	768.6	62.0	16.7	84	sw.	3	1.3	.....	0	fg.	.....	.....	0	0	clear	D. O. Donoghue.
Chattanooga, Tennessee	29.44	747.8	30.27	768.8	60.0	15.6	78	ne.	3	1.3	.....	1 cs	sk.	calm	.....	0	0	clear	B. L. Goulding.
Cheyenne, Wyoming	23.78	604.0	29.78	756.4	31.2	— 0.4	74	sw.	10	4.5	.....	.....	10 s	....	sw.	inap.	inap.	cloudy	E. McGovern.
Chicago, Illinois	29.42	747.3	30.15	765.8	39.3	4.1	100	ne.	14	6.3	.....	.....	10 n	.....	.....	1.10	27.9	light rain	J. Mitchell.
Chincoteague, Virginia	30.14	765.5	30.16	766.1	60	*15.6	87	nw.	8	3.6	.....	.....	10 s	.....	nw.	0	0	cloudy	V. P. Temple.
Cincinnati, Ohio	29.48	748.8	30.15	765.8	67.3	19.6	63	s.	2	0.9	.....	5 ck	0	sw.	... .	0	0	fair	R. B. Watkins.
Cleveland, Ohio	29.47	748.5	30.23	767.8	40	4.4	94	ne.	11	4.9	.....	.....	10 n	.....	.....	0.68	17.3	light rain	J. B. Newlin.
Coleman City, Texas	28.11	714.0	29.93	760.2	64	17.8	84	se.	14	6.3	.. ..	.....	10 s	.....	s.	0	0	cloudy	L. Dorman.
Columbus, Ohio	29.28	743.7	30.15	765.8	57	13.9	74	ne.	4	1.8	....	4 ck	5 ks	nw.	n.	0	0	cloudy	D. Cuthbertson.
Concho, Texas	27.95	709.9	29.89	759.2	66	18.9	73	s.	16	7.2	.....	.....	10 s	.....	s.	0	0	cloudy	W. W. McConihe.
Davenport, Iowa	29.42	747.3	30.08	764.0	43	6.1	74	e.	10	4.5	.....	.....	10 s	.....	e.	0.32	8.1	cloudy	R. R. Martin.
Dayton, Washington T'y	28.21	716.5	29.96	761.0	44.2	6.8	86	sw.	3	1.3	.....	.....	10 s	.....	sw.	0	0	cloudy	H. Clifford.
Deadwood, Dakota	25.16	639.1	29.85	758.2	35	1.7	92	calm	0	0	.....	.....	10 s	.....	.....	0.21	5.3	cloudy	G. W. Scott.
Decatur, Texas	.....	.....	.....	.....	60	15.6	54	se.	14	6.3	.....	0	0	.....	.....	0	0	clear	D. J. Carr.
Delaware Breakwater, Del.	30.11	764.8	30.13	765.3	55	12.8	93	sw.	10	4.5	.....	2 cs	7 s;sk	calm	calm	0	0	cloudy	A. Schneider.
Denison, Texas	29.19	741.4	29.99	761.7	65.0	18.3	84	s.	8	3.6	.....	.....	10 s	.....	.....	0	0	cloudy	J. McGlone.
Denver, Colorado	24.51	622.5	29.78	756.4	33.5	0.8	70	s.	4	1.8	.....	0	2 s	.....	calm	0.05	1.3	clear	F. M. Neal.
Des Moines, Iowa	29.07	738.4	30.00	762.0	44	6.7	93	e.	9	4.0	.....	.....	fg.	.....	.....	0.66	16.8	dense fog	F. W. Conrad.
Detroit, Michigan	29.55	750.6	30.28	769.1	39.2	4.0	89	n.	9	4.0	.....	.....	10 n	.....	calm	0.37	9.4	light rain	C. F. R. Wappenhans.
Dodge City, Kansas	27.77	690.1	29.81	757.2	59	15.0	84	s.	6	2.7	.....	.....	10 s	.....	s.	0	0	cloudy	E. A. Thomas.
Dubuque, Iowa	29.40	746.7	30.13	765.3	35.3	1.8	79	ne.	8	3.6	.....	.....	10 n	.....	calm	0.08	2.0	light rain	J. Harvey Smith.
Duluth, Minnesota	29.58	751.3	30.30	769.6	29	— 1.7	67	ne.	24	10.7	.....	0	3 s	.....	ne.	0	0	clear	N. B. Conger.
Eagle Pass, Texas	29.14	740.1	29.95	760.7	69.2	20.7	84	se.	8	3.6	.....	.....	10 s	.....	se.	0	0	cloudy	F. Belford.
Eagle Rock, Idaho	25.19	639.8	29.91	759.7	40	4.4	86	sw.	14	6.3	.....	.....	10 ks	.....	sw.	0	0	cloudy	J. M. Clifford.
Eastport, Maine	30.22	767.6	30.29	769.4	28	— 2.2	43	n.	23	10.3	.....	0	0	.....	.....	inap.	inap.	clear	J. H. Melton.
El Paso, Texas	26.22	666.0	29.96	761.0	49	9.4	52	nw.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.51	749.5	30.26	768.6	39	3.9	82	ne.	10	4.5	.....	.....	10 n	.....	.....	0.48	12.2	light rain	R. H. Paxton.
Escanaba, Michigan	29.67	753.6	30.36	771.1	28	— 2.2	88	e.	10	4.5	.....	3 c	0	w.	.....	0	0	clear	C. Dill.
Florence, Arizona	28.53	724.6	30.03	762.7	42.0	5.6	70	w.	2	0.9	.....	0	0	.....	.....	0	0	clear	R. R. Herman.
Fort Apache, Arizona	25.05	636.3	29.97	761.2	38	3.3	92	e.	2	0.9	.....	.....	10 s	.....	calm	0.34	8.6	cloudy	W. O. Barnes.
Fort Assinnaboine, Montana	26.93	684.0	29.83	757.7	37	2.8	72	sw.	5	2.2	.....	0	1 s	.....	sw.	0	0	clear	B. O. Lenoir.
Fort Bennett, Dakota	28.30	718.8	29.94	760.5	34	1.1	100	se.	12	5.4	.....	.....	10 n	.....	.....	0.05	1.3	light rain	T. Gibson.
Fort Benton, Montana	26.98	685.3	29.84	757.9	36	2.2	72	calm	0	0	.....	0	0	.....	.....	0	0	clear	S. Wheaton.
Fort Buford, Dakota	27.82	706.6	29.89	759.2	33	0.6	71	se.	20	8.9	.....	.....	10 s	.....	calm	0	0	cloudy	A. H. Bell.
Fort Custer, Montana	26.65	676.9	29.83	757.7	40	4.4	92	calm	0	0	.....	.....	10 n	.....	calm	0.01	0.3	light rain	V. Verge.
Fort Davis, Texas	25.03	635.8	29.82	757.4	57	13.9	14	s.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. Williams.
Fort Elliott, Texas	27.05	687.1	29.83	757.7	59	15.0	78	se.	12	5.4	.....	.....	10 n	.....	se.	0.24	6.1	light rain	W. J. Cundall.
Fort Gibson, Indian T'y	29.42	747.3	30.00	762.0	66.6	19.2	63	s.	10	4.5	.....	10 cs	0	s.	.....	0	0	cloudy	J. B. Campbell.
Fort Grant, Arizona	25.22	640.6	29.96	761.0	40	4.4	30	e.	2	0.9	.....	0	0	.....	.....	0	0	clear	T. J. Macgowan.
Fort Griffin, Texas	28.69	728.7	29.99	761.7	68	20.0	70	s.	20	8.9	.....	.....	10 s	.....	s.	0	0	cloudy	G. H. Hayne.
Fort Keogh, Montana	27.35	694.7	29.89	759.2	40	4.4	82	se.	12	5.4	.....	.....	10 n	.....	se.	0.10	2.5	light rain	W. B. Stockman.
Fort Macon, North Carolina	30.28	769.1	30.30	769.6	61	16.1	100	w.	4	1.8	.....	3 c; hz	fg.	calm	calm	0	0	fair	L. Leonardy.
Fort McKavett, Texas	27.72	704.1	29.98	761.5	63	17.2	90	s.	15	6.7	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	J. E. Thatcher.
Fort Missoula, Montana	26.59	675.4	29.90	759.4	45	7.2	63	sw.	9	4.0	.....	0	5 s	.....	.....	0	0	fair	J. H. Jones.
Fort St. Michaels, Alaska	30.09	764.3	30.13	765.3	— 9	—22.8	100	s.	4	1.8	.....	0	5 s	.....	s.	0	0	fair	A. P. Leavitt.
Fort Shaw, Montana	26.17	664.7	29.84	757.9	43	6.1	53	w.	7	3.1	.....	6 cs	0	.....	.....	0	0	fair	A. L. Mathews.
Fort Sill, Indian Territory	28.64	727.4	29.88	758.9	65.8	18.8	79	s.	24	10.7	.....	.....	10 s	.....	sw.	0	0	cloudy	T. Cleary.
Fort Stevenson, Dakota	28.08	713.2	29.98	761.5	26	— 3.3	88	s.	7	3.1	.....	0	8 s	.....	.....	0	0	cloudy	W. Burrows.
Fort Verde, Arizona	.....	.....	.....	.....	35.8	2.1	58	n.	.....	.....	1	0	0	.....	.....	0.01	0.3	clear	D. Brooks.
Fort Washakie, Wyoming	24.19	614.4	.....	.....	38.8	3.8	93	s.	1	0.4	.....	.....	10 s	.....	.....	0.72	18.3	threatening	T. M. Ambler.
Fredericksburg, Texas	28.23	717.0	29.95	760.7	64	17.8	93	sw.	10	4.5	.....	.....	10 ks	.....	sw.	inap.	inap.	cloudy	H. S. Miles.
Galveston, Texas	29.98	761.5	30.02	762.5	71	21.7	90	se.	12	5.4	.....	.....	10 ks	.....	s.	0.01	0.3	threatening	E. O'C. MacInerney.
Grand Haven, Michigan	29.54	750.3	30.23	767.8	36.0	2.2	89	ne.	16	7.2	.....	.....	10 n	.....	ne.	0.60	15.2	light rain	W. A. Reid.
Hatteras, North Carolina	30.25	768.3	30.27	768.8	60	15.6	93	sw.	10	4.5	.....	3 c	hz.	sw.	.....	0	0	clear	R. M. Crawford.
Helena, Montana	25.65	651.5	29.91	759.7	42	5.6	60	w.	4	1.8	.....	10 k	0	.....	.....	0	0	cloudy	N. C. Smith.
Henrietta, Texas	28.94	735.1	29.97	761.2	67.0	19.4	73	s.	18	8.0	.....	.....	10 s	.....	s.	0	0	cloudy	J. W. Byram.
Huron, Dakota	28.51	724.1	29.96	761.0	34.2	1.2	82	e.	12	5.4	.....	.....	10 n	.....	.....	0.18	4.6	light rain	S. W. Glenn.
Indianapolis, Indiana	29.28	743.7	30.10	764.5	63	17.2	84	calm	0	0	.....	.....	10s;fg	.....	calm	0	0	cloudy	O. Schulze
Indianola, Texas	29.94	760.5	29.97	761.2	70.4	21.3	94	se.	11	4.9	.....	4 cs	3 ks	se.	se.	0	0	fair	I. A. Reed.
Jacksboro, Texas	28.78	731.0	29.96	761.0	65	18.3	84	se.	11	4.9	.....	.....	10 ks	.....	s.	0	0	threatening	J. P. Sherry.
Jacksonville, Florida	30.19	766.8	30.23	767.8	68	20.0	90	e.	5	2.2	.....	4 k	0	e.	.....	0	0	fair	J. W. Smith.
Keokuk, Iowa	29.36	745.7	30.03	762.7	48.5	9.2	93	e.	8	3.6	.....	.....	10 s	.....	e.	0.08	2.0	cloudy	F. Z. Gosewisch
Key West, Florida	30.07	763.8	30.09	764.3	72.0	22.2	87	ne.	4	1.8	.....	.....	10 s	.....	.....	2.80	71.1	cloudy	L. M. Melbourne.
Kittyhawk, North Carolina	30.23	767.8	30.25	768.3	59.5	15.3	93	w.	16	7.2	.....	7 c; hz	0	.....	.....	0	0	fair	E. A. Beals.
Knoxville, Tennessee	29.23	742.4	30.27	768.8	61.2	16.2	73	calm	0	0	.....	1 c	sk.	.....	.....	0	0	clear	J. A. Cody.
La Crosse, Wisconsin	29.36	745.7	30.16	766.1	34	1.1	72	ne.	6	2.7	.....	.....	10 s	.....	ne.	0.13	3.3	cloudy	S. C. Emery.
La Mesilla, New Mexico	26.06	661.9	29.94	760.5	40.5	4.7	58	calm	0	0	.....	0	0	.....	.....	0	0	clear	N. D. Lane.
Leavenworth, Kansas	29.02	737.1	29.93	760.2	62	16.7	72	s.	4	1.8	.....	.....	10 s	.....	sw.	0.66	16.8	cloudy	A. W. Browne.
Lewiston, Idaho	29.10	739.1	29.95	760.7	52.7	11.5	67	w.	7	3.1	.....	.....	10 s	....	w.	0	0	cloudy	W. Blake.
Little Rock, Arkansas	29.76	755.9	30.08	764.0	63	17.2	84	calm	0	0	.....	5 c	0	calm	.....	0	0	fair	W. U. Simmons.
Los Angeles, California	29.79	756.7	30.19	766.8	53.2	11.8	80	sw.	1	0.4	.....	0	4 s	.....	sw.	0	0	fair	E. F. Kubel.
Louisville, Kentucky	29.55	750.6	30.12	765.0	68	20.0	61	s.	7	3.1	.....	.....	10 s	.....	.....	0	0	cloudy	H. C. Smyth.
Lynchburg, Virginia	29.49	749.0	30.20	767.1	63.0	17.2	73	calm	0	0	.....	7 k	fg.	sw.	.....	0	0	fair	W. R. Bushby.
Madison, Wisconsin	29.15	740.4	30.19	766.8	35	1.7	89	ne.	8	3.6	.....	.....	10 n	.....	calm	0.25	6.3	light rain	C. A. Shaw.
Marquette, Michigan	29.65	753.1	30.40	772.1	30	— 1.1	67	se.	10	4.5	.....	0	0	.....	.....	0	0	clear	J. Gilligan.
Mason, Texas	28.30	718.8	29.96	761.0	68	20.0	76	s.	11	4.9	.....	.....	10 s	.....	s.	0	0	cloudy	P. M. Wilson.
Memphis, Tennessee	29.81	757.2	30.15	765.8	67	19.4	68	s.	4	1.8	.....	hz	hz.	....	....	0	0	dense haze	D. T. Flannery.
Milwaukee, Wisconsin	29.44	747.8	30.21	767.3	34	1.1	100	ne.	13	5.8	.....	.....	10 n	.....	ne.	0.37	9.4	light rain	W. Line.

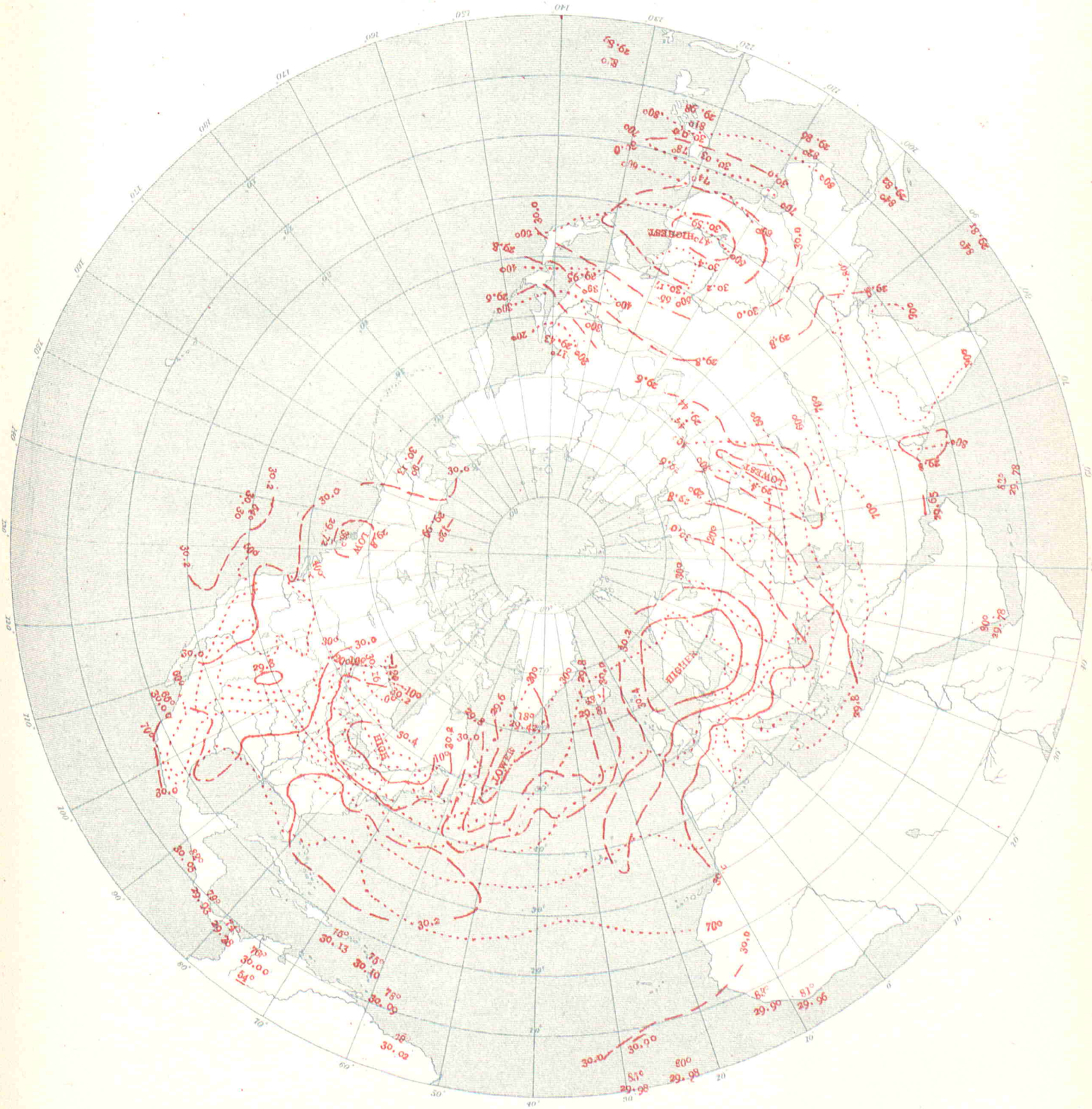
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–01	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
UNITED STATES.—Cont'd.																			
Mobile, Alabama	30.12	765.0	30.16	766.1	67	19.4	87	e.	3	1.3	.....	1 k	0	se.	.....	0	0	clear	J. D. Paxton.
Montgomery, Alabama	29.98	761.5	30.21	767.3	63	17.2	73	se.	1	0.4	.....	1 cs	0	.....	.....	0	0	clear	J. B. McLaughlin.
Moorhead, Minnesota	29.08	738.6	30.10	764.5	27	— 2.8	88	se.	8	3.6	.....	.....	10 s	.....	se.	0	0	cloudy	H. Bessant.
Morgantown, W. Virginia	29.16	740.7	30.20	767.1	57.0	13.9	80	calm	0	0	.....	0	8 s	.....	w.	0	0	cloudy	G. C. Lewis.
Mt. Washington, N. H.	23.80	604.5	30.21	767.3	14.3	— 9.8	80	n.	32	14.3	.....	0	0	.....	.....	0.22	5.6	clear	J. G. Linsley.
Nashville, Tennessee	29.65	753.1	30.19	766.8	61.0	16.1	72	s.	2	0.9	.....	6 cs	hz.	w.	.....	0	0	fair	L. A. Jesunofsky.
New Haven, Connecticut	30.11	764.8	30.23	767.8	44	6.7	83	ne.	17	7.6	.....	.....	10 s	.....	ne.	0.19	4.8	cloudy	J. H. Sherman.
New London, Connecticut	30.20	767.1	30.25	768.3	43	6.1	74	ne.	10	4.5	.....	.....	10 s	.....	ne.	0.52	13.2	cloudy	J. G. Lynch.
New Orleans, Louisiana	30.03	762.7	30.09	764.3	70.3	21.3	94	e.	9	4.0	.....	1 c	9 s	.....	se.	0	0	threatening	S. Dunne.
Newport, Rhode Island	30.17	766.3	30.22	767.6	42.0	5.6	67	ne.	10	4.5	.....	.....	10 s	.....	ne.	0.43	10.9	cloudy	W. McGillivray.
New River, N. Carolina	.....	.....	.....	.....	60	15.6	93	w.	.....	.....	1	2 c	3 s	.....	.....	0	0	fair	C. C. Corbin.
New Shoreham, Rhode I'd.	30.18	766.6	30.21	767.3	41.0	5.0	82	ne.	22	9.8	.....	.....	10 s	.....	ne.	0.04	1.0	cloudy	W. Davis.
New York, New York	30.01	762.2	30.19	766.8	49.5	9.7	80	n.	10	4.5	.....	.....	10 n	.....	.....	0.04	1.0	light rain	E. B. Garriott.
Norfolk, Virginia	30.16	766.1	30.19	766.8	63	17.2	84	sw.	12	5.4	.....	6ck;cs	hz.	w.	.....	0	0	fair	J. T. Elker.
North Platte, Nebraska	26.90	683.2	29.86	758.4	39.6	4.2	89	calm	0	0	.....	.....	10 s	.....	.....	0.63	16.0	cloudy	E. F. Brady.
Olympia, Washington T'y	29.96	761.0	30.00	762.0	37.0	2.8	89	s.	1	0.4	.....	.....	fg.	.....	calm	0.05	1.3	dense fog	J. Dascomb.
Omaha, Nebraska	28.80	731.5	30.01	762.2	51.5	10.8	95	se.	8	3.6	.....	.....	10s;fg	.....	sw.	0.48	12.2	clearing	A. Poliak.
Ooglaamie, Pt. Barrow, Alas.	29.93	760.2	29.95	760.7	—12.2	—24.6	74	ese.	6	2.7	.....	.....	10 n	.....	.....	0.01	0.3	light snow	P. H. Ray.
Oswego, New York	29.97	761.2	30.31	769.9	32.0	0.0	65	ne.	20	8.9	.....	6 c	0	w.	.....	0.20	5.1	fair	S. W. Beall.
Palestine, Texas	29.50	749.3	30.06	763.5	64.5	18.1	88	se.	8	3.6	.....	.....	10 ks	.....	se.	0	0	cloudy	L. M. Pindell.
Pensacola, Florida	30.14	765.5	30.17	766.3	69.3	20.7	90	e.	12	5.4	.....	.....	10 s	.....	se.	0	0	cloudy	M. McGauran,
Philadelphia, Pa.	30.05	763.3	30.15	765.8	57	13.9	80	sw.	3	1.3	.....	.....	10 n	.....	sw.	inap.	inap.	light rain	T. F. Townsend.
Pike's Peak, Colorado	17.48	444.0	29.76	755.9	5	—15.0	83	nw.	16	7.2	.....	0	3 s	.....	.....	0.01	0.3	clear	L. M. Dey.
Ploche, Nevada	24.07	611.4	30.06	763.5	35	1.7	69	nw.	3	1.3	.....	0	0	.....	.....	inap.	inap.	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.36	745.7	30.19	766.8	60.3	15.7	78	nw.	4	1.8	.....	2 k	6 s	w.	nw.	0	0	cloudy	H. G. Christian.
Port Eads, Louisiana	30.08	764.0	30.08	764.0	70.0	21.1	94	e.	11	4.9	.....	1 c	2 k	w.	se.	inap.	inap.	clear	W. O. Bailey.
Port Huron, Michigan	29.59	751.6	30.29	769.4	34.6	1.4	91	ne.	10	4.5	.....	.....	10 n	.....	.....	0.80	20.3	light rain	D. C. Murphy.
Portland, Maine	30.25	768.3	30.30	769.6	38.0	3.3	45	ne.	19	8.5	.....	0	0	.....	.....	0	0	clear	M. L. Hearne.
Portland, Oregon	29.87	758.7	29.94	760.5	45.0	7.2	83	nw.	6	2.7	.....	.....	10 s	.....	nw.	0.02	0.5	cloudy	F. P. Chaffee.
Portsmouth, N. Carolina	.....	.....	.....	.....	61	16.1	84	s.	10	4.5	.....	0	hz.	.....	calm	0	0	clear	J. Mc N. Wright.
Prescott, Arizona	24.78	629.4	30.00	762.0	28	— 2.2	70	s.	3	1.3	.....	0	0	.....	.....	0.04	1.0	clear	W. J. Nanry.
Provincetown, Mass.	30.21	767.3	30.24	768.1	37	2.8	82	ne.	19	8.5	.....	.....	10 s	.....	ne.	0.33	8.4	cloudy	P. T. Jenkins.
Punta Rassa, Florida	30.11	764.8	30.12	765.0	70	21.1	84	ne.	5	2.2	.....	.....	10 ks	.....	e.	inap.	inap.	cloudy	J. M. Frantz.
Red Bluff, California	29.67	753.6	30.04	763.0	53.4	11.9	88	s.	9	4.0	.....	.....	10 s	.....	s.	0	0	cloudy	W. H. Taylor.
Rio Grande City, Texas	29.67	753.6	29.91	759.7	70	21.1	90	se.	4	1.8	.....	.....	10 s	.....	se.	0	0	cloudy	A. T. Sherwood.
Rochester, New York	29.67	753.6	30.36	771.1	32	0.0	78	ne.	13	5.8	.....	8 cs	0	w.	.....	0.34	8.6	cloudy	J. J. Nanry.
Roseburg, Oregon	29.35	745 5	29.91	759.7	46.5	8.1	87	nw.	4	1.8	.....	.....	10 n	.....	.....	0.38	9.7	light rain	J. A. Barwick.
Sacramento, California	30.02	762.5	30.10	764.5	50.2	10.1	93	s.	7	3.1	.....	0	0	.....	.....	0	0	clear	J. H. Webber.
St. Louis, Missouri	29.46	748.3	30.08	764.0	67.1	19.5	63	s.	9	4.0	.....	.....	10 s	.....	sw.	0	0	cloudy	P. F. Lyons.
St. Paul, Minnesota	29.22	742.2	30.11	764.8	34.0	1.1	71	e.	11	4.9	.....	.....	10 s	.....	e.	0	0	cloudy	G. Kingsbury.
St. Vincent, Minnesota	29.26	743.2	30.16	766.1	12	—11.1	80	se.	11	4.9	.....	2 c	0	calm	.....	0	0	clear	J. Craig.
Salt Lake City, Utah	25.57	649.5	29.94	760.5	46	7.8	71	e.	3	1.3	.....	.....	10 s	.....	.....	0.02	0.5	cloudy	E. Lane.
San Antonio, Texas	29.26	743.2	29.96	761.0	68.0	20.0	84	se.	3	1.3	.....	.....	10 s	.....	calm	0	0	cloudy	A. C. Dobbins.
San Diego, California	30.05	763.3	30.12	765.0	54.0	12.2	86	n.	5	2.2	.....	10 k	0	n.	.....	0.02	0.5	cloudy	M. H. Perry.
Sandusky, Ohio	29.53	750.0	30.23	767.8	41	5 0	89	ne.	18	8.0	.....	.....	10 n	.....	.....	0.62	15.7	light rain	B. A. Blundon.
Sandy Hook, New Jersey	30.14	765.5	30.18	766.6	48.0	8.9	93	n.	10	4.5	.....	.....	10 n	.....	calm	0.20	5.1	light rain	N. Gorom.
San Francisco, California	30.10	764.5	30.17	766.3	51	10.6	96	sw.	9	4.0	.....	.....	fg.	.....	.....	0	0	dense fog	H. U. Jones.
Santa Fé, New Mexico	23.06	585.7	29.82	757.4	32	0.0	74	n.	14	6.3	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	H. W. Ford.
Savannah, Georgia	30.20	767.1	30.29	769.4	61	16.1	87	se.	3	1.3	.....	0	0	.....	.....	0	0	clear	E. N. Meekins.
Shreveport, Louisiana	29.84	757.9	30.08	764.0	63	17.2	84	se.	3	1.3	.....	9 c	sk.	.....	.....	0	0	clear	J. B. Wallace.
Silver City, New Mexico	24.22	615.2	29.90	759.4	36	2.2	46	nw.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. J. McLean.
Sitka, Alaska	29.66	753.4	29.72	754.9	36.1	2.3	69	se.	12	5.4	.....	.....	10 ks	.....	se.	0.32	8.1	cloudy	O. Parker.
Smithville, North Carolina	30.26	768.6	30.30	769.6	57	13.9	100	n.	3	1.3	.....	1 cs	0	n.	.....	0	0	clear	D. Moore.
Spokane Falls, Wash. Ter.	27.89	708.4	29.95	760.7	43	6.1	76	s.	8	3.6	.....	.....	10 s	.....	sw.	0	0	cloudy	T. B. Jennings.
Springfield, Illinois	29.37	746.0	30.07	763.8	56	13.3	77	e.	5	2.2	.....	.....	10 s	.....	sw.	0	0	cloudy	T. S. Outram.
Springfield, Massachusetts	30.13	765.3	30.26	768.6	41.0	5.0	57	n.	10	4.5	.....	.....	10 s	.....	.....	0.11	2.8	cloudy	J. B. Marbury.
Springfield, Mo.	28.59	726.2	30.11	764.8	63	17.2	68	s.	6	2.7	.....	0	8 ks	.....	sw.	0	0	cloudy	J. O'Dowd.
Stockton, Texas	26.87	682.5	29.90	759.4	60.2	15.7	93	s.	12	5.4	.....	0	1 s	.....	s.	0	0	clear	G. Liebmann.
Thatcher's Island, Mass.	30.20	767.1	30.25	768.3	38.0	3.3	73	ne.	24	10.7	.....	0	hz.	.....	.....	0.09	2.3	clear	A. Buell.
Toledo, Ohio	29.52	749 8	30.23	767.8	41	5.0	92	e.	16	7.2	.....	.....	10 n	.....	e.	0.53	13.5	light rain	J. L. Whiteside.
Tucson, Arizona	27.61	701.3	30.00	762.0	46	7.8	76	se.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. Daly.
Umatilla, Oregon	29.63	752.6	30.00	762.0	48.5	9.2	76	nw.	2	0.9	.....	.....	10 s	.....	.....	0	0	cloudy	E. C. Imlay.
Uvalde, Texas	28.98	736.1	29.95	760.7	68	20.0	90	se.	6	2.7	.....	.....	10 s	.....	se.	0	0	cloudy	T. J. Kenan.
Vicksburg, Mississippi	29.86	758.4	30.12	765.0	63	17.2	84	se.	5	2.2	.....	4 cs	0	calm	.....	0	0	fair	J. T. Cochran.
Visalia, California	29.75	755.6	30.12	765'0	49.7	9.8	75	se.	3	1.3	.....	3 k	0	.....	.....	0	0	clear	B. M. Purssell.
Washington, D. C.	30.05	763.3	30.17	766.3	58.0	14.4	86	calm	0	0	.....	8 cs; k	sk.	w.	.....	0	0	cloudy	J. Grover.
West Las Animas, Colorado	25.85	656.6	29.81	757.2	38	3.3	96	nw.	8	3.6	.....	.....	fg.	.....	.....	0.08	2.0	light fog	H. A. Kremp.
Wickenburg, Arizona	.....	.....	.....	.....	37.5	3.1	88	calm	.....	.....	0	0	0	.....	.....	0	0	clear	B. F. Hough.
Williamsport, Pa.	29.62	752.3	30.23	767.8	46	7.8	76	ne.	8	3.6	.....	.....	10 ks	.....	ne.	0.23	5.8	cloudy	E. W. McGann.
Wilmington, N. Carolina	30.23	767.8	30.29	769.4	59	15.0	87	calm	0	0	.....	5 c; hz	0	.....	.....	0	0	fair	J. R. Williams.
Winnemucca, Nevada	25 58	649.7	29.98	761.5	45	7.2	76	sw.	6	2.7	.....	.....	10 ks	.....	sw.	0.01	0.3	cloudy	J. H. Atfield.
Yankton, Dakota	28.53	724.6	29.87	758.7	40	4.4	89	s.	9	4.0	.....	.....	10 s	.....	.....	0.20	5.1	cloudy	O. D. Stewart.
Yuma, Arizona	29.89	759.2	30.03	762.7	50.6	10.3	73	sw.	1	0.4	.....	0	0	.....	.....	0	0	clear	
Sub-series.																			
Bogota, U. S. Columbia	22.07	560.6	.....	.....	54.0	12.2	79	calm	0	0	.....	.....	10ks;s	.....	.....	0.20	5.1	cloudy	Joaquin Gomez.
Bridgetown, Barbados, W.I.	30.08	764.0	30.09	764.3	78	25.6	86	e.	.....	.....	.....	5 k	5 ks	e.	e.	0	0	fair	J. A. Racker.
Buenaventura, U. S. C.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. I. Plume.
Guadeloupe, W. I.	29.98	761.5	30.00	762.0	75	23.9	87	ne.	.....	.....	.....	10 c	0	.....	.....	0	0	hazy	B. Bigar.
Havana, Cuba, W. I.	30.08	764.0	30.13	765.3	74	23.3	90	calm	0	0	.....	5 cs	5 ks	calm	calm	0.65	16.5	fair	A. Van Caneghem.
Kingston, Jamaica, W. I.	30.07	763.8	30.08	764.0	77.0	25.0	71	n.	1	0.4	.....	0	2 s	.....	e.	0	0	fine	Robert Johnston.
Navassa	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	F. M. Everett.
Paramaribo, S. A.	30.02	762.5	30.02	762.5	79	26.1	82	se.	.....	.....	2	3 c	4 k	e.	.....	0.100	2.5	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.54	750.3	30.00	762.0	76	24.4	94	calm	.....	.....	0	.....	10s	.....	.....	1.43	36.3	misty	Miss Flora A. Nichols.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	.....	.....	90	ne.	.....	.....	2	6	d	sw.	ne.	0	0	.....	Earl Flint.
Santiago de Cuba, W. I.	30.06	763.5	30.09	764.3	77	25.0	69	calm	0	0	.....	0	0	.....	.....	0	0	clear	Robert Mason.
York Factory, B. A.	30.11	764.8	30.16	766.1	—12.0	—24.4	75	n.	10	4.5	.....	2 k	4 s	n.	n.	0	0	cloudy	W. Wood.

STATIONS AND VESSELS.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
British Naval.																		
H. M. S. Agincourt, N. 36° 07′, W. 5° 21′	29.92	760.0	59	15.0	100	wnw.			2		9	wnw.						raining.
H. M. S. Alert, S. 6° 10′ E. 52° 45′	29.77	756.1	82.2	31.2	69	s.			2		4							d. clouds.
H. M. S. Alexandra, Port Augusta, Sicily	29.88	758.9	59.5	15.3	76	e.			1		9							squally.
H. M. S. Bacchante, Jaffa, Egypt	29.78	756.4	62	16.7	77	sw.			4		10							showery.
H. M. S. Cleopatra, N. 10° 12′ E. 59° 28′	29.78	756.4	81.5	27.5	87	e.			2		2	ene.				1	ne.	d. clouds.
H. M. S. Comus, N. 7° 12′, E. 133° 00′	29.89	759.2	82	27.8	91	ene.			2		2	ne.				3	ne.	d. clouds.
H. M. S. Daring, N. 19° 54′ E. 116° 27′	30.03	762.7	74	23.3		ne.			6		10					6	ne.	showery.
H. M. S. Diamond, S 38° 36′, E. 124° 50′	30.22	767.6	61	16.1	94	e.			2–3		10					1	e.	drizzling.
H. M. S. Dido, N. 17° 00′, W. 61° 45′	30.13	765.3	77	25.0		ene.			1–4		6	ne.						hy. showers
H. M. S. Dryad, N. 23° 37′, E. 58° 36′	29.65	753.1				se.			1		4	e.				1	se.	d. clouds.
H. M. S. Eclipse, S. 15° 43′, E. 46° 20′			85	29.4	96	ssw.			1–2		3							d. clouds.
H. M. S. Espiegle, Albany, West Australia	29.89	759.2	68	20.0	90	ese.			1		5	wnw.						d. clouds.
H. M. S. Fawn, N. 15° 22′, E. 42° 10′	29.73	755.1	80.5	26.9	87	w.			1		9					1	v	misty.
H. M. S. Gannet, S. 33° 01′, W. 71° 37′	30.07	763.8	60	15.6	63	se.			1–2		5							d. clouds.
H. M. S. Garnet, Montevideo, Uruguay	29.74	755.4	67	19.4	90	e.			3		10							raining.
H. M. S. Inconstant, S. 28° 00′ E. 46° 10′	30.06	763.5	73	22.8	100	sse.			3		3	se.				3	se.	d. clouds.
H. M. S. Iron Duke, N. 22° 16′, E. 114° 10′	30.11	764.8	61	16.1	88	calm			0		8	sw.						d. clouds.
H. M. S. Lark, S. 10° 51′, E. 162° 26′	29.91	759.7	80.3	26.8		calm			0		4							d. clouds.
H. M. S. Liffey, Coquimbo, Chili	29.97	761.2	62	16.7		calm			0		8							d. clouds.
H. M. S. Magpie, N. 33° 26′, E. 129° 22′	30.20	767.1	52.5	11.4	52	wnw.			2		10	nw.				1	nw.	d. clouds.
H. M. S. Malabar, Bombay, India	29.76	755.9	85	29.4	91	w.			2		5	w.						misty.
H. M. S. Nelson, Sydney, N. S. Wales	29.83	757.7	63	17.2	94	se.			1–2		10							raining.
H. M. S. Northampton, Bermuda, W. I.	30.33	770.4	65	18.3	68	calm			0		0							blue sky.
H. M. S. Rambler, St. Paul de Loando, Benguiea	29.87	758.7	79	26.1	95	w.			2		6	wnw.						d. clouds.
H. M. S. Rocket, Esquimalt, Vancouver Island, B. C.	29.98	761.5	44	6.7		calm			0		3							d. clouds.
H. M. S. Serapis, N. 14° 40′ E. 42° 22′	29.78	756.4	80	26.7	86	s.			2		6	s.				2	s.	d. clouds.
H. M. S. Superb, N. 35° 56′, E. 14° 34′*	29.91	759.7	68	20.0	60	nne.			2		2	ssw.				1	ese.	d. clouds.
H. M. S. Tenedos, N. 24° 16′ W. 71° 12′	30.20	767.1	72.5	22.5	90	ene.			5		10					4	ene.	showery.
H. M. S. Thalia, S. 35° 05′, E. 9° 57′	30.10	764.5	64	17.8		se.			4		10					5	ese.	overcast.
H. M. S. Triumph, Valparaiso, Chili	30.07	763.8	60	15.6	70	calm			0		2	calm						d. clouds.
H. M. S. Tyne, N. 5° 24′, E. 97° 17′	29.82	757.4	84	28.9	75	nw.			2		1					sm'h		blue sky.
H. M. S. Woodlark, Bombay, India	29.82	757.4	84.5	29.2	68	wnw.			3–4		0					4	nw.	misty.
Portuguese Naval.																		
Rio Lima, Porto Praya, Cape Verd Islands	30.04	763.0	77.0	25.0	68	nne.			1		1					1		blue sky.
Tamega, Macao, China	30.12	765.1	64.4	18.0	65	nnw.			3		10			8 h'r	8 h'r	2	wnw.	overcast.
United States Naval.																		
Navy Yard, Pensacola, Fla	30.09	764.3	71	21.7	85	e.	22	9.8			10		e.	0	0			threatening
Naval Hospital, Portsmouth, N. H.	30.29	769.4	38	3.3	63	ne.	17	7.6			2		ne.	0	0			fair.
Naval Hospital, Yokohama, Japan	29.81	757.2	53.5	11.9	80	e.			1		10		w.	0	0			misty.
Adams, Panama, Panama	29.78	756.4	74	23.3	90	nw.			2		5			0	0	sm'h		fair.
Alaska, Mollendo, Peru	29.92	760.0	68	20.0	84	calm			0		10			0	0	long		cloudy.
Alert, Nagasaki, Japan*	30.04	763.0	52	11.1	73	ne.			1		8		calm	0	0	sm'h		cloudy.
Alliance, Aspinwall, Panama	29.93	760.2	79	26.1	82	n.			2		5		n.	light	light	sm'h		fair.
Ashuelot, Nagasaki, Japan	30.16	766.1	53	11.7	54	nnw.			2		10		nw.					overcast.
Brooklyn, Montevideo, Uruguay	29.72	754.9	68	20.0	100	ese.	2	0.9			10		ese.	0.5	13.	light	sse.	cloudy.
Colorado, New York, N. Y.	30.08	764.0	47	8.3	92	calm	0	0			10		calm	0.06	1.5			raining.
Enterprise, Curacoa, W. I*	30.02	762.5	79	26.1	82	ene.			3		5		e.					fair.
Essex, N. 4° 07′, W. 7° 46′	29.96	761.0	81	27.2	87	sw.			1		10					sm'h		cloudy.
Franklin, Norfolk, Va.	30.22	767.6	63	17.2	94	wsw.	10	4.5			8		calm	0	0			cloudy.
Galena, N. 36° 25′, E. 13° 48′	29.90	759.4	63	17.2	83	nw.			3		2		nw.			sm'h		clear.
Independence, Mare Island, Cal	29.97	761.2	54	12.2	87	sw.			6		10			0	0			cloudy.
Kearsage, St. Thomas, W. I.	30.14	765.5	78	25.6	69	ne.			2		2					sm'h		clear.
Lackawanna, Callao, Peru*	29.94	760.5	65	18.3	100	s.			1		8		s.					cloudy.
Lancaster, Leghorn, Italy*	29.84	757.9	64	17.8	78	n.			1		5		calm	0	0			fair.
Marion, S. 33° 54′, E. 18° 24′	29.91	759.7	72	22.2	80	w.			2		5		w.			sm'h		clear.
Michigan, Erie, Pa	30.13	765.3	39	3.9	91	ne.			6		8		e.					cloudy.
Minnesota, Newport, R. I.	30.24	768.1	42	5.6	74	ne.	12	5.4			10		calm					overcast.
Monocacy, Kobe Japan	30.13	765.3	62	16.7	79	calm			0		5		calm					fair.
New Hampshire, Newport, R. I.	30.18	766.6	41	5.0	91	ne.			5		10			0	0	sm'h		cloudy.
Nipsic, Barcelona Spain	29.91	759.7	59	15.0	76	se.			1		10					sm'h		drizzling.
Onward, Callao, Peru†	30.11	764.8	65	18.3	94	se.			2		10					long	w.	cloudy.
Palos, Kobe, Japan	30.13	765.3	54	12.2	100	nw.			1		2		n.					clear.
Passaic, Washington, D. C.	30.16	766.1	59	15.0	100	calm			0		8		calm					fair.
Pensacola, Callao, Peru	30.02	762.5	64	17.8	94	sse.	3	1.3			10		calm					hazy.
Powhatan, N. 11° 55′, W. 68° 29′	30.03	762.7	79	26.1	78	ne.			3		2		s.	0	0	sm'h		fair.
Portsmouth, Chesapeake Bay	30.16	766.1	58	14.4	100	ssw.			3		2					long	ene.	misty.
Quinnebaug, N. 41° 00′, E. 13° 25′	29.86	758.4	64	17.8	62	nnw.			2		2		sw.			sm'h		fair.
Ranger, Acapulco, Mexico*	29.90	759.4	80	26.7	78	wsw.			1		2		calm	0	0	sm'h		clear.
Richmond, Kobe, Japan*	29.66	753.4	52	11.1	66	calm			0		2		calm	0	0	sm'h		fair.
Shenandoah, Off Carthagena, U. S. C*	30.00	762.0	77	25.0	91	ne.			4		8		calm	0.6	15.			clear.
St. Louis, League Island, Pa	30.37	771.4	53	11.7	86	calm	0	0			10		n;e.			mod.	n;e.	cloudy.
Swatara, Kobe, Japan*	29.96	761.0	54	12.2	67	calm			0		2		ne.	0.02	0.5			raining.
Tennessee, Port Royal, S. C.	30.32	770.1	63	17.2	100	ene.	4	1.8			0		w.			sm'h		fair.
Vandalia, Port Royal, S. C.	30.42	772.7	62	16.7	100	calm			0		0							foggy.
Wabash, Boston, Mass.	30.28	769.1	41	5.0	65	nne.	6	2.7			10							foggy.
Wachusetts, Sitka, Alaska	29.61	752.1	33	0.6		calm			0		0		ne.	0	0			overcast.
Wyoming, Port Royal, S. C.	30.26	768.6	59	15.0	94	ene.												clear.
Yantic, Key West, Fla*	30.05	763.3	73	22.8	95	e.	4	1.8			10		calm	0	0			foggy.
									2		10							cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Circassian, N. 45° 20′, W. 46° 00′	30.10	764.5	38	3.3	63	sw.			7		10		sw.	2 h'r	2 h'r	4	sw.	overcast.
S. S. Nova Scotian, N. 42° 40′, W. 68° 33′	30.12	765.0	35	1.7		nnw.			4		0					slight	ne.	clear.
S. S. Polynesian, N. 45° 59′ W. 41° 37′.*	29.83	757.7	45	7.2		wsw.			3		7		sw.	0	0	long	nne.	fair.
S. S. Scandinavian, N. 50° 06′, W. 31° 44′*	29.81	757.2	48	8.9		wnw.			2		10		wnw.	0	0	mod.	wsw.	overcast.
S. S. Waldensian, N. 42° 11′, W. 55° 14′*	30.00	762.0	40	4.4		n.			6		10		nnw.	0	0	light	nw.	cloudy.
AMERICAN STEAMSHIP COMPANY.																		
S. S. British Crown, N. 43° 30′, W. 44° 41′†	30.23	767.8	42	5.6		sw.			3		4		wsw.	0	0	mod.	wnw.	fine.
S. S. Illinois, Philadelphia, Pa	30.05	763.3	47	8.3	77	se.			5		10		se.					overcast.
S. S. Indiana, Liverpool, Eng...†	30.26	768.6	49	9.4	77	e.			4		8		e.	light	light			cloudy.
S. S. Ohio, Philadelphia, Penn†	30.10	764.5	54	12.2	100	calm			0		0							misty.
S. S. Pennsylvania, N. 50° 57′, W. 12° 06′†	30.22	767.6	54	12.2	79	ene.			2		8		ene.			sm'h	ne.	showery.
ANCHOR LINE.																		
S. S. Assyria, N. 42° 19′, W. 70° 50′ *†	30.36	771.1	38	3.3		ne.			6		5		ne.	6 h'r	6 h'r	sm'h		fine.
S. S. Ethiopia, N. 40° 38′, W. 64° 49′	30.06	763.5	43	6.1	100	n.			4		10		e.	4 h'r	4 h'r	mod.	sw.	drizzling.
S. S. Galatia, Off St. Catherines, Isle of Wight†	30.15	765.8				ene.			1		8		ne.	2 h'r	2 h'r	sm'h		cloudy.
S. S. India, N. 41° 49′, W. 9° 43′*	29.94	760.5	56	13.3	87	nne.			5		2					long	w.	fair.
ATLAS LINE.																		
S. S. Atlas, N. 32° 22′, W. 74° 51′†	30.32	770.1	70	21.1	84	calm			0		0			0	0	sm'h		fine.
S. S. Alvo, Port au Prince, Hayti, W. I.	30.10	764.5				e.			4		3		e.	0	0			fair.
S. S. Arden, N. 10° 40′. W. 71° 38′						ne.												fine.
S. S. Athos, Arroyo, Porto Rico, W. I.	29.74	755.4				ene.			2		5?		ene.	1 h'r	1 h r	r'gh	e.	clear.?
BOSTON AND HALIFAX.																		
S. S. Carroll, N. 43° 01′, W. 67° 48′†	30.26	768.6	38	3.3	81	nne.			4					0	0	cross	ssw.	fair.
BRITISH METEOROLOGICAL OFFICE.																		
Bk. Arran, N. 0° 50′ W. 23° 33′	29.98	761.5	79.5	26.4	84	nne.			3		10							overcast.
S. Baroda, S. 4° 03′. E. 82° 29′	29.79	756.7	85.6	29.8	72	e.			2		2							d. clouds.
British Merchant, S. 0° 01′, E. 87° 35′	29.81	757.2	84	28.9	87	e.			2		3							d. clouds.
S. S. Cipero, Plymouth Sound, England	30.14	765.5	51.2	10.7	65	ene.			2		9							misty.
Bk. Commewyne, N. 48° 13′, W. 25° 55′	30.18	766.6	53.2	11.8	70	s.			4		10							overcast.
Bk. Corona, N. 0° 36′, W. 28° 22′	29.98	761.5	84.5	29.2	77	e.			1		9							d. clouds.
S. S. Gordon Castle, N. 10° 26′ E. 108° 06′	29.86	758.4	82	27.8	83	ene.			3		3							d. clouds.
Brig Hermine, N. 3° 08′, W. 28° 31′	29.99	761.7	77.2	25.1	95	n.			2		8							d. clouds.
Rosetta, N. 36° 45′, W. 1° 33′	29.81	757.2	59	15.0	73	wsw.			5		8							
CROMWELL LINE.																		
S. S. Hudson, N. 27° 12′, W. 80° 08′†	30.15	765.8	71	21.7		e.			6		10		ese.	5 h'r	5 h'r	mod.	sse.	overcast.
CUNARD LINE.																		
S. S. Scythia, N. 49° 11′, W. 30° 15′			54	12.2	100	nw.			2		10		nne.	2½h'r	2½h'r	r'gh	wsw.	raining.
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. Canada, New York, N. Y	30.32	770.1	37.4	3.0		ne.			3		10		nne.	2 h'r	2 h'r			covered.
S. S. France, N. 47° 02′, W. 29° 15′†	29.99	761.7	55.4	13.0		s.			5				sse.	0	0	r'gh	s.	clear.
GUION LINE.																		
S. S. Arizona N. 40° 28′, W. 70° 00′	30.13	765.3	39	3.9		ne.			5		10			2 h'r	2 h'r	sm'h		drizzling.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Bohemia, N. 50° 13′, W. 2° 03′*†	30.07	763.8				ne.			5		4		e.	0	0	mod.	ene.	fair.
S. S. Lessing, N. 40° 57′, W. 64° 24′	29.98	761.5	43	6.1		nnw.			3		10		nnw.	0	0	long	sw.	cloudy.
S. S. Silesia, N. 49° 43′, W. 12° 40′ *†	30.29	769.4	49.1	9.5		nne.			4		2		nne.	0	0	3–5	nne.	fair.
S. S. Wieland, N. 46° 22′, W. 36° 50′	30.00	762.0	52	11.1		nw.			4		5		var.	0	0	4	nw.	fair.
MALLORY LINE.																		
S. S. Colorado, N. 27° 20′. W. 80° 00′†	30.13	765.3	72	22.2		se.			6		9		se.	2 h'r	2 h'r	high	se.	cloudy.
MERCHANTS' EXPRESS LINE.																		
S. S. Hermod, N. 49° 41′, W. 31° 55′*†	29.64	752.8	53.6	12.0		w.			2		8		sw.	0	0	r'gh	wnw.	cloudy.
NATIONAL LINE.																		
S. S. England, Off South Stack, England	30.22	767.6				e.			5		5		e.	0	0	sm'h	e.	hazy.
S. S. Erin, N. 49° 28′, W. 7° 45′	30.13	765.3	50	10.0		nne.			3		7		ene.	0	0	sm'h		hazy.
S. S. Holland, N. 41° 36′, W. 54° 38′	29.86	758.4	52	11.1		sw.			6		10		s.	1 h'r	1 h'r	mod.	sw.	drizzling.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Niagara, N. 27° 07′ W. 80° 02′†	30.20	767.1	71	21.7		ese.			4		8		s.	2 h'r	2 h'r	small	e.	overcast.
S. S. Santiago, Cienfuegos, Cuba, W. I †	30.02	762.5	78	25.6		e.			2		1		ene.	0	0			fine.
NEW YORK, HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, Vera Cruz, Mexico.*†	30.02	762.5	75	23.9		wnw.			4		6		sw.	0	0			fair.
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Alvena, N. 30° 45′ W. 75° 01′†	30.12	765.0	72	22.2		w.			3								ene.	clear.
S. S. Atlas, N. 13° 56′, W. 78° 00′*†	30.11	764.8	80	26.7		ne.			3								sw.	clear.
S. S. City of Washington, N. 22° 07′, W. 87° 20′ *†	30.10	764.5	80	26.7		ese.			3								w.	raining.
S. S. Lepanto, N. 44° 32′, W. 39° 30′*	30.02	762.5	46	7.8		wsw.			3								con.	clear.
S. S. New York, N. 36° 47′, W. 74° 16′*†	30.25	768.3	52	11.1		sw.			3							sm'h		hazy.
S. S. P. Unland, N. 49° 10′ W. 19° 28′	30.26	768.6	60.8	16.0		se.			1									fine.
S. S. W. A. Scholten, N. 40° 50′, W. 71° 57′	30.05	763.3	42	5.6		nne.			4							sm'h		rain & fog.
NORTH GERMAN LLOYD.																		
S. S. Graf Bismarck, N 45° 48′, W. 7° 42′	30.07	763.8	59.9	15.5		nne.			3		8		nne.	0	0	mod.	nne.	cloudy.
S. S. Hohenzollern, S. 1° 23′, W. 31° 58′*	29.93	760.2	72.5	22.5		ene.			4		5?		e.	rain	rain	sm'h	e.	clear.?
S. S. Kronprinz F. Wilhelm, N. 49° 41′, W. 14° 40′	30.26	768.6	50.9	10.5		ne.			2–3		2		e.	0	0	3	e.	fair.
S. S. Main, N 42° 09′, W. 53° 31′	29.82	757.4	50.0	10.0		ssw.			6		10		wsw.			high	wsw.	raining.
S. S. Mosel, N. 52° 31′, E. 3° 28′	30.08	764.0	50	10.0		e.			5		0			1 h'r	1 h'r	sm'h		clear.
S. S. Ohio, N. 34° 56′, W. 57° 56′	30.40	772.1				w.			3		10		w.	0	0	mod.	nne.	cloudy.
S. S. Rhein, N. 48° 15, W. 28° 45′	29.86	758.4				ssw.			6		10		sw.	0	0	cross	sw.	misty.
S. S. Saller, Bremerhaven, Germany						e.			6		1		e.	0	0			clear.
S. S. Strassburg, N. 48° 09′, W. 29° 24′	29.97	761.2	56.0	13.3	100	s.			5–6		10			4 h'r	4 h'r	r'gh	s.	drizzling.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Belgic, N. 40° 41′. W. 136° 58′†	30.20	767.1	54	12.2	80	wnw.			6		5		wnw.	0	0	r'gh	wnw.	fair.
S. S. Oceanic, N. 35° 22′. E. 155° 12′*	30.05	763.3	66	18.9	94	ssw.			5		6		s.			4	sw.	fine.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, New York, N. Y†	30.13	765.3				nne.			1		10			h'vy	h'vy			rainy.
S. S. Seminole, Boston, Mass†	30.27	768.8	40	4.4	64	ne.			6		5		ne.	4 h'r	4 h'r			fair.
OREGON IMPROVEMENT COMPANY.																		
S. S. Mississippi, Seattle, Wash. Ter.†	29.92	760.0	47	8.3	85	ese.			1		5		w.					fair.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. City of Chester, N. 48° 47′, W. 123° 20′*†	30.07?	763.8?	41	5.0	?	w.			1		1		se.			sm'h		clear
S. S. Oregon, N. 39° 51′, W. 124° 46′†	30.23	767.8	47	8.3	85	sse.			2		10		nw.			light	wnw.	misty.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, San Francisco, Cal.†	30.12	765.0	52	11.1	93	calm			0		10		w.					misty.
S. S. Idaho, Tacoma, Wash. Ter.†	29.94	760.5	45	7.2	76	s.			3		2		n.					clear.
S. S. State of California, San Francisco, Cal.†	30.15	765.8	50	10.0	?	ssw.			2		10		ssw.					light rain
S. S. Victoria, N. 40° 33′, W. 124° 40′†	29.94	760.5	50	10.0	86	sse.			4		2			0	0	sm'h		hazy.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, Sydney, N. S. W	29.72	754.9	63	17.2	89	sw.			3		8		sw.					drizzling.
S. S. City of New York, S. 34° 08′, E. 170° 20′†	29.98	761.5	70	21.1	75	sw.			3		10		sw.	0	0	mod.	sw.	cloudy.
S. S. City of Pekin, Panama, Panama..†	29.98	761.5	73	22.8	85	nw.			1		0					sm'h		clear.
S. S. City of Sydney, S. 0° 21′, W. 166° 03′†	29.92	760.0	80	26.7	67	ene.			2		2		ne.	0	0	h'vy	ne.	clear.
S. S. Clyde, N. 8° 57′, W. 79° 31′†	29.99	761.7	74	23.3	81	nnw.			1		2		n.	0	0			clear.
S. S. Colon, N. 20° 52′ W. 74° 05′†	30.10	764.5	80	26.7		e.			6		5		se.	0	0	mod.	ese.	fair.
S. S. South Carolina, La Libertad, San Salvador†	30.05	763.3	82	27.8	79	calm			0		5		n.	0	0	sm'h		
QUEBEC STEAM SHIP COMPANY.																		
S. S. Muriel, Off Nevis, W.I.	30.06	763.5	76	24.4		ene.			4		8					sm'h		squally.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
RED STAR LINE.																		
S. S. Belgenland, Antwerp, Belgium†	30.24	768.1	57	13.9	87	ene.			3		3		e.					clear.
S. S. Nederland, N. 48° 45′, W. 21° 28′*†	30.80	782.3	56	13.3		s.			2		2		s.	0	0	long	w.	fair.
S. S. Rhynland, Isle of Wight, Eng	30.07	763.8	51	10.6	65	ene.			2		9		ene.	0.05	1.3	sm'h		cloudy.
S. S. Vaderland, N. 40° 14′, W. 53° 40′	29.96	761.0	61	16.1	71	sw.			5		8		ssw.	0	0	mod.	sw.	cloudy.
S. S. Waesland, N. 40° 07′ W. 56° 05′	30.04	763.0	61	16.1		ssw.			6		10		w.	0	0	mod.	ssw.	threatening.
ROTTERDAM LINE.																		
S. S. Schiedam, N. 46° 05′, W. 41° 10′*	29.95	760.7	44.4	6.9	83	ssw.			5		8		w.	0	0	cross	ssw.	cloudy.
THINGVALLA LINE.																		
S. S. Thingvalla, Copenhagen, Denmark†	30.51	774.9	45.5	7.5		e.			2		2		e.	0	0			clear.
WARREN LINE.																		
S. S. Iowa, N. 42° 28′, W. 62° 16′*†	30.22	767.6	32	0.0		n.			5		10		n.	6 h'r	6 h'r	mod	ssw.	clearing.
WHITE STAR LINE.																		
S. S. Britannic, N. 42° 39′, W. 45° 53′†	30.05	763.3	48	8.9		w.			2		2		wsw.	0	0	light	n.	d. clouds.
S. S. Celtic, Liverpool, England†	30.18	766.6	47	8.3		ne.			3		10		e.	0	0			misty.
S. S. Germanic, N. 44° 08′, W. 45° 20′†	30.03	762.7	39	3.9		wsw.			5		2		wsw.	0	0	mod.	sw.	fine.
WILSON LINE																		
S. S. Otranto, N. 49° 58′, W. 13° 32′†	30.34	770.6	66	18.9		nne.			2		2		nne.	0	0	sm'h	ne.	clear.
S. S. Romano, N. 49° 42′, W. 7° 12′†*	29.74	755.4	58	14.4										0	0	sm'h		clear.
WINSOR LINE.																		
S. S, Catherine Whiting, Philadelphia, Pa.†	30.22	767.6				ne.			1					rain	rain			stormy.
MISCELLANEOUS.																		
Schr. Addie Fuller, N. 24° 45′, W. 82° 45′†	30.20	767.1	73	22.8	90	ese.			3	6 c;cs	0	se.		0.22	5.6	mod.	ese.	fair.
Bk. Adelaide, Rio de Janeiro, Brazil*†	30.15	765.8	80	26.7		ne.												
Schr. Ajax, N. 26° 10′, W. 93° 05′†	30.05	763.3				ese.			3		4?		ese.	0	0	mod.	e.	cloudy.?
Bk. Alpha, N. 33° 55′, W. 68° 30′†	30.25	768.3	68	20.0		wsw.			4		3		wsw.	0	0	sm'h		fair.
Bk Antioch, S. 26° 30′, W. 34° 08′*†	30.50	774.7	77	25.0		se.			6		1		se.	0	0	mod.	se.	clear.
Schr. Asa Eldridge, Charlotte Harbor, Florida†	30.21	767.3				ne.			3		10		e.	4 h'r	4 h'r			drizzling
Bk. Aureola, N. 28° 45′ W. 38° 42′*†	30.14	765.5	70	21.1		wnw.			6		3		nw.	1 h'r	1 h'r	hv'y	nw.s	squally.
Schr Annie M. Smull, S. 38° 00′. E. 2° —*†	30.20	767.1	60	15.6		nw.							s.	0	0	long	sw.	clear.
Bk. Bergenseren, N. 36° 05′, W. 10° 50′†	29.97	761.2				nw.			4				nw.	0	0	5	nw.	squally.
Bk. Celestina, S. 12° 24′ W. 32° 33′*†	29.95	760.7				ese.			3		4		ese.	0	0	sm'h	var.	fine.
Bk. Champion, N. 38° 29′, W. 65° 20′†	30.02	762.5				wsw.			6		8		w.	0	0	h'vy	nw.	
S. S. Compton, N. 35° 32′, W. 74° 30′†	30.31	769.9				w.			4		3		nw.	0	0	mod.	w.	clearing.
Bk. E. L. Pettingill, N. 4° 40′ W. 116° 30′†	29.90	759.4				ne.			1		2		ne.	0	0	sm'h	ne.	hazy.
S Enoch Train, N. 49° 44′ W. 14° 55′*	30.13	765.3				n.			2		1		n.	0	0	light	nw.	fine.
S. Exporter, N. 31° 04′, W. 33° 47′*†	30.10	764.5				s.			4				s.	20 h'r	20 h'r	short	ssw.	raining.
S. Festina Lente, N. 52° 58′, W. 33° 05′*	29.80	756.9	42	5.6		wsw.			7		5		wsw.	13 h'r	13 h'r	cross	sw.	fair.
U.S. F.C.S. Fish Hawk, Washington, D. C.†	30.28	769.1	61	16.1	94	calm			0		5		calm	0	0			fair.
S. Grecian, S. 26° 25′, W. 34° 50′*†	30.12	765 0	73	22.8		sse.			6		5		sse.	3 h'r	3 h'r	long	sw.	
Bk. Freya, Off Cape Henry, Va			52	11.1		sw.			3		fg			0	0			foggy.
Bk. Granville, S. 36° 24′, W. 0° 21′*†	30.39	771.9				nw.			1				sw.	0	0	long	sw.	clear.
Bk. Hattie G. McFarland, N. 32° 44′, W. 78° 47′*†	30.33	770.4	71	21.7		calm			0		3		s.	0	0	sm'h	sse.	fair.
Schr. Henry Denison, Port Antonio, Jamaica, W. I†	30.04	763.0				ene.			4		3?		se.	rain	rain			cloudy.?
S. Hedwig, N. 51° 50′, W. 30° 49′	29.87	758.7	46.8	8.2	82	sw.			6		5		sw.	1 h'r	1 h'r	5	ssw.	fine.
Schr. John L. Thomas, N. 32° 16′ W. 71° 44′*†	30.36	771.1				wnw.					2		n.	0	0	mod.	ese.	fine.
Bg John Wesley, Sagua La Grande, Cuba, W. I.†	30.03	762.7	79	26.1		ese.			1		2			0	0			clear.
Bk. Jona, N. 37° 44′, W. 69° 30′*†	30.35	770 9				wnw.			3		5?		wnw.	0	0	cross	var.	cloudy.?
Bkt. Josephine, Aspinwall, Panama*†	30.08	764.0	82	27.8	67	e.			2		2		nne.	1 h'r	1 h'r			fair.
Bk. Liberia, N. 32° 31′, W. 34° 10′*†	29.85	758.2	68	20.0	84	ssw.			7		4		sw.	4 h'r	4 h'r			
Light House Tender, Laurel, Key West, Florida†	30.08	764.0	72	22.2		ene.			3		10		e.	4 h'r	4 h'r	hv'y	ne.	cloudy.
S. S. Malabar, Cardiff, Eng*†	30.32	770.1				n.			5				n.	0	0			cloudy.
Bg. Medina, N. 25° 40′ W. 79 22′†	30.31	769.9				e.			6		10		ese			small	e.	cloudy.
S. S. Nebo, S. 12° 34′, W. 36° 10′*†	29.91	759.7				wsw.			1		1		ese.	0	0	sm'h		clear.
Bk. Peppina, N. 42° 37′, W. 10° 24′†	30.01	762.2	56	13.3	80	ne.			6		5?		n.			h'vy	ne.	cloudy?
Bk. Pilgrim, S. 34° 36′, E. 151° 38′*†	30.00	762.0				e.			3				e.	light	light	cross	var.	heavy rain.
Bg. Potomac, N. 9° 58′, W. 57° 22′*†	29.90	759.4				ene.			3				ene.			sm'h	ene.	fine.
S. S. Radnorshire, N. 39° 49′, W. 59° 27′*†	29.94	760.5				sw.			6		10		wsw.	6 h'r	6 h'r	long	sw.	
S. Salisbury, N. 30° 09′, W. 44° 05′*	30.18	766.6	57.9	14.4	77	nnw.			6		4		n.	1 h'r	1 h'r	h'vy	nnw.	fair.
Bkt. Spotless, N. 9° 01′, W. 29° 04′*†	29.90	759.4				ene.							ene.			mod.	ne.	fine.
Bk. Stella, S. 59° 00′, W. 62° 32′*.	29.15	740.4	33.8	1.0	92	sw.			6		7		wsw.	snow	snow	mod.	sw.	snowing.
S. S. Victoria J. Peed, N. 15° 12′, W. 74° 00′*†	30.00	762.0				ese.			5		3					long		
S. Wm. Woodbury, N. 51° 08′, W. 25° 18′*†	29.55	750.6	52	11.1		sw.			7				s.			mod.	sw.	cloudy.

International Chart I. April 5, 1882. Isobars and Isotherms.



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON APRIL 6, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind.		Clouds. Direction.		Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.		
Algerian.																			
Nemours	.....	.....	29.86	758.5	66.9	19.4	79	ne.	.....	.....	3	.....	1?	.....	.....	0.157	4.0	cloudy?.....	Molroud.
Algiers	.....	.....	29.82	757.3	60.4	15.8	71	wnw.	.....	.....	2	.....	4	.....	.....	0	0	cloudy.....	Nicolas.
La Calle	.....	.....	29.83	757.7	58.6	14.8	87	wsw.	.....	.....	1	.....	5	.....	.....	0.098	2.5	cloudy.....	Fonfrède.
Tunis	.....	.....	29.86	758.4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	29.92	759.9	55.0	12.8	77	nnw.	.....	.....	2	.....	5	.....	.....	0.020	0.5	cloudy	Dumas.
Tebessa	.....	.....	29.89	759.2	58.6	14.8	49	se.	.....	.....	2	.....	2	.....	.....	0	0	fair.....	Derché.
Geriville	.....	.....	.....	.....	59.7	15.4	26	n.	.....	.....	5	.....	6	.....	.....	inap.	inap.	cloudy.....	Lonchamp.
Laghouat	.....	.....	29.91	759.6	64.4	18.0	62	sw.	.....	.....	2	.....	0	.....	.....	0	0	clear.....	Abraham.
Biskra	.....	.....	29.88	759.0	64.8	18.2	41	nw.	.....	.....	5	.....	9	.....	.....	inap.	inap.	covered.....	Malau.
Australian.																			
Melbourne, Victoria	30.08	764.0	30.17	766.3	56.3	13.5	76	sse.	10	4.5	.....	.....	10	.....	.....	0	0	dull.....	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.73	755.2	30.29	769.4	50.0	10.0	35	ne.	.....	.....	3	.....	2	.....	.....	0	0	.....	Prof. Ivan Stozir
Cracow, I. R Observatory	29.62	752.4	30.41	772.5	44.2	6.8	33	e.	9.4	4.2	.....	.....	0	.....	.....	0	0	.....	Dr. Wierzbiski.
Eperies	29.45	748.1	30.36	771.1	44.2	6.8	24	n.	.....	.....	5	0	0	.....	.....	0	0	.....	Julius Mikolik.
Gratz	29.03	737.3	30.30	769.7	48.2	9.0	57	e.	.....	.....	3	.....	1	.....	.....	0.138	3.5	.....	Andreas Rospini.
Hermannstadt	28.77	730.8	30.25	768.3	41.4	5.2	43	ese.	.....	.....	4	.....	3	.....	.....	0.051	1.3	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.86	733.1	30.22	767.6	50.4	10.2	49	ene.	.....	.....	5	.....	0	.....	.....	0	0	clear.....	The Staff.
Lemberg	29.32	744.6	30.34	770.7	38.8	3.8	32	ne.	.....	.....	1	.....	0	.....	.....	0	0	.....	Dr. T. Stanecki.
Pola	30.03	762.8	30.15	765.7	54.3	12.4	89	e.	.....	.....	5	.....	0	.....	.....	0	0	.....	I. R.Hydrographic Office.
Szathmar	29.81	757.1	30.27	768.9	43.2	6.2	75	ne.	.....	.....	3	.....	0	.....	.....	0	0	.....	Joseph Midlinszky, S. J.
Szegedin	29.98	761.6	30.28	769.0	43.9	6.6	30	ne.	.....	.....	3	.....	0	.....	.....	0	0	.....	Karl Stancel.
Trieste	30.07	763.7	30.17	766.3	53.6	12.0	25	ne.	.....	.....	4	.....	0	.....	.....	0	0	.....	Rieder.
Vienna	29.61	752.1	30.34	770.7	47.3	8.5	37	e.	.....	.....	1	.....	0	.....	.....	0	0	.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	30.41	772.4	30.52	775.2	44.6	7.0	75	e.	12	5.4	.....	.....	7	.....	.....	0	0	d. clouds.....	W. Boswell.
Armagh, Observatory	30.12	765.0	30.36	771.1	45.6	7.6	89	ene.	5	2.2	.....	.....	10	.....	.....	.....	.....	raining.....	S. Oall.
Bidston, Liverpool Obs'y	.....	.....	30.28	769.1	49.0	9.4	86	nnw.	8	3.6	.....	.....	7	.....	.....	.....	.....	misty.....	John Hartnup.
Bolton, Sharples	29.75	755.6	30.30	769.6	50.7	10.4	71	e.	10	4.5	.....	.....	4	.....	.....	.....	.....	d. clouds.....	Thomas Mackereth.[A.S.
Bradford, Yorkshire	29.92	760.0	30.31	769.9	51.1	10.6	73	e.	.....	.....	3	.....	5	.....	.....	0.01	0.3	d. clouds.....	J.McLandsborough, F. R
Bridgetown, Barbadoes	29.96	761.0	29.99	761.7	73.0	22.8	90	ne.	.....	.....	3	.....	8	.....	.....	.....	.....	raining.....	Corpl.J.Surgenor, A. H.C.
Cardington	.....	.....	30.23	767.8	59.0	15.0	55	e.	.....	.....	1.0	.....	3	.....	.....	.....	.....	blue sky.....	John McLaren.
Chatham, School M. E	30.10	764.5	30.23	767.8	54.5	12.5	76	ne.	.....	.....	2	.....	0	.....	.....	.....	.....	blue sky.....	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	30.02	762.5	30.25	768.3	50.5	10.3	64	n.	.....	.....	1	.....	2	.....	.....	.....	.....	foggy.....	The Staff.
Fort Napier, Natal	27.57	700.3	29.79	756.7	85.0	29.4	61	n.	.....	.....	3	.....	1	.....	.....	.....	.....	blue sky.....	Pvt. E. K.Annis, A. H.C.
Free Town, Sierra Leone	29.61	752.1	29.84	757.9	84.0	28.9	70	w.	.....	.....	1	.....	3	.....	.....	.....	.....	d. clouds.....	Sergt. John Robinson.
Gibraltar, Mediterranean	29.88	758.9	29.94	760.5	65.4	18.6	78	sw.	.....	.....	4	.....	3	.....	.....	.....	.....	blue sky.....	Cpl. O. Baldwin.
Glasgow, Observatory	30.13	765.3	30.33	770.4	47.6	8.7	75	ene.	.....	.....	5	.....	5 k	.....	.....	.....	.....	d. clouds.....	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	30.05	763.3	30.22	767.6	60.0	15.6	66	ene.	.....	.....	1	.....	0	.....	.....	.....	.....	blue sky.....	The Staff.
Guernsey	29.90	759.4	30.20	767.1	47.0	8.3	92	ne.	.....	.....	1	.....	8	.....	.....	.....	.....	d. clouds.....	A. Collenette, F. M. S.
Kew, Observatory	30.19	766.8	30.23	767.8	57.1	13.9	69	ne.	13	5.8	.....	.....	0	.....	.....	.....	.....	misty.....	The Staff.
Leicester, Museum	29.99	761.7	30.25	768.3	57.2	14.0	68	ne.	.....	.....	1	.....	2	.....	.....	.....	.....	d. clouds	J. C. Smith.
Malta, Mediterranean	29.84	757.9	29.92	760.0	65.2	18.4	78	e.	.....	.....	2	.....	4	.....	.....	.....	.....	d. clouds.....	I. H. Whysall.
Nassau, Bahamas	30.14	765.5	30.18	766.6	75.5	24.2	83	se.	.....	.....	2	.....	7	.....	.....	.....	.....	d. clouds.....	C. S. Duncombe.
Oscott, St. Mary's College	29.74	755.4	30.27	768.8	50.2	10.1	82	nne.	.....	.....	2	.....	7	.....	.....	.....	.....	d. clouds.....	John Mac Email.
Oxford, Radcliffe Obs'y	30.02	762.5	30.25	768.3	49.3	9.6	85	n.	.....	.....	2	.....	10	.....	.....	.....	.....	misty.....	The Staff.
Plymouth	30.15	765.8	30.23	767.8	53.0	11.7	73	se.	.....	.....	2	.....	0	.....	.....	.....	.....	blue sky.....	John Merrifield.
Sandwick Manse, Orkneys	.....	.....	30.52	775.2	46.8	8.2	68	se.	17	7.6	.....	.....	6	.....	.....	.....	.....	d. clouds.....	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	30.00	762.0	30.07	763.8	48.0	8.9	85	ne.	.....	.....	2	.....	6	.....	.....	.....	.....	d. clouds.....	W. H. Lyne.
Sheffield	30.05	763.3	30.34	770.6	52.9	11.6	72	ne.	.....	.....	1	.....	5	.....	.....	0	0	d. clouds.....	W. F. Cooper.
Silloth Rectory	30.31	769.9	30.34	770.6	51.0	10.6	69	e.	.....	.....	5	.....	0	.....	.....	0	0	blue sky.....	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	30.32	770.1	49.0	9.4	74	e.	15	6.7	.....	.....	7	.....	.....	.....	.....	d. clouds.....	Rev. S. J. Perry.
Stratfield Turgiss	30.02	762.5	30.24	768.1	53.8	12.1	76	nw.	.....	.....	2	.....	4	.....	.....	.....	.....	blue sky.....	Rev.C.H.Griffiths,F.M.S.
Truro, Royal Institution	30.22	767.6	30.26	768.6	57	13.9	69	nw.	.....	.....	4	.....	4	.....	.....	.....	.....	d. clouds.....	W. Newcombe.
Valencia, Observatory	30.30	769.6	30.33	770.4	51.9	11.1	59	nnw.	9	4.0	.....	.....	4	.....	.....	.....	.....	d clouds.....	The Met'g'l Office.
Canadian.																			
Bathurst, N. B	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.40	772.1	30.44	773.2	13	—10.6	79	w.	4	1.8	.....	0	5 s	.....	nw.	0	0	fair.....	H. J. Cundall, C. E.
Chatham, N. B*	30.48	774.2	30.55	776.0	13	—10.6	61	nw.	9	4.0	.....	0	0	.....	.....	0	0	clear.....	G. A. Blair.
Father Point, Quebec*	30.67	779.0	30.69	779.5	9	—12.8	91	n.	15	6.7	.....	0	0	.....	.....	0	0	clear.....	J. McWilliams.
Fort Garry, Manitoba*	28.97	735.8	29.81	757.2	33	0.6	100	calm	0	0	.....	.....	10 n	.....	.....	0	0	cloudy	James Stewart.
Halifax, N. S*	30.35	770.9	30.49	774 4	17	— 8.3	67	nw.	10	4.5	.....	0	0	.....	.....	0	0	clear.....	A. Allison.
Kingston, Ontario*	30.08	764.0	30.43	772.9	28	— 2.2	64	ne.	14	6.3	.....	.....	10 k	.....	w.	0	0	cloudy.....	A. P. Knight, M. A.
Montreal, Quebec*	30.37	771.4	30.60	777 2	19	— 7.2	53	e.	15	6.7	.....	2 c	0	.....	.....	0	0	clear.....	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.58	751.3	30.31	769.9	30	— 1.1	77	e.	18	8.0	.....	.....	10 n	.....	se.	inap.	inap.	cloudy	Rev. R. Mosley.
Port Dover, Ontario	29.51	749.5	30.23	767.8	35	1.7	90	ne.	14	6.3	.....	.....	10 ks	.....	.....	0.02	0.5	cloudy.....	H. Morgan.
Port Stanley, Ontario	29.50	749.3	30.17	766.3	36	2.2	79	e.	16	7.2	.....	.....	10 n	.....	e.	0.14	3.6	cloudy..	M. Payne.
Quebec, Quebec*	30.33	770.4	30.69	779.5	10	—12.2	80	calm	.....	.....	0	0	hz.	.....	.....	0	0	fair.....	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.98	761.5	30.47	773.9	25	— 3.9	88	se.	6	2.7	.....	.....	8 ks	.....	w.	0	0	threatening.	W. H. McIntyre.
Saugeen, Ontario*	29.43	747.5	30.17	766.3	35	1.7	72	e.	19	8.5	.....	.....	10 s	.....	.....	0.04	1.0	cloudy.....	
St. Andrews, N. B	30.54	775.7	30.59	777.0	15	— 9.4	57	n.	8	3.6	.....	0	0	.....	.....	0	0	clear.....	
Sydney, C. B*	30.25	768.3	30.31	769.9	11	—11.7	80	nw.	26	11.6	.....	0	2 ks	.....	nw.	0	0	clear.....	T. C. Hill, C. E.
Toronto, Ontario*	29.93	760.2	30.33	770.4	33	0.6	74	e.	25	11.2	.....	.....	10 n	.....	.....	inap.	inap.	cloudy.....	Magnetic Observatory.
Yarmouth, N. S*	30.47	773.9	30.54	775.7	23	— 5.0	70	n	2	0.9	.....	0	0	.....	.....	0	0	clear.....	Lt. F. E. Wilmot, R. N.
Sub-series.																			
St. Johns, Newfoundland	29.81	757.2	30.09	764.3	5	—15.0	.....	w.	4	1.8	.....	0	0	.....	.....	0	0	fair.....	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	29.89	759.2	29.92	760.0	71.0	21.7	78	w.	6.2	2.8	.....	0	2 k	.....	.....	0.060	1.5	light haze...	John Duthie.
Cape Town, C. G. H. Obs'y	30.00	762.0	30.04	763.0	67.0	19.4	46	.....	23	10.3	.....	9	9	.....	.....	0	0	.....	The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	OBSERVERS.
Chinese (*Sub-series*).																			
Hankow	30.18	766.6	30.46	773.7	51.2	10.7	71	calm			0		0			0	0		N. Titoushkin.
Zi-Ka-Wei, near Shanghai	30.34	770.7	30.37	771.4	43.9	6.6	78	ese.	7.4	3.3			0			0	0	clear	M. Marc Dechevrens, S.J.
Danish.																			
Copenhagen	30.51	774.9	30.56	776.1	39.9	4.4	63	calm	0	0			0						Oversergent Fischer.
Fanöe	30.50	774.7	30.52	775.2	52.3	11.3	52	e.			4		0						Overloerer Lauridsen.
Godthaab, Greenland	29.37	745.9	29.41	747.0	20.8	— 6.2	84	nne.			4		1						S. Kleinschmidt.
Stykkisholm, Iceland	29.92	759.9	29.96	761.0	41.0	5.0	87	s.			7		10					raining	A. O. Thorlacius.
Thorshavn	30.45	773.3	30.48	774.2	45.7	7.6	93	sw.	13	6			1						Overloerer Bergh.
Vestervig	30.46	773.6	30.55	775.9	48.9	9.4	46	e.			2		0						Loerer Oesterbol.
French.																			
Agen, Normal School	29.38	746.2	30.02	762.6	62.2	16.8	66	calm			0		k		w.	0	0		M. Labroue, Director.
Alençon, Normal School	29.58	751.2	30.13	765.2	59.0	15	68	n.			2		k	n.	n.	0	0		M. Nicot, Director.
Arras, Engineer School	29.87	758.8	30.13	765.3	59.2	15.1	59	e.			1					0	0		Capt. Bertrand, Dir.
Avignon, Normal School	29.95	760.6	30.02	762.6	63.3	17.4	59	n.			1		0			0.020	0.5	clear	M. Giraud, Director.
Bar-sur-Seine	29.52	749.8	30.07	763.7	62.4	16.9	44	se.			1		0			0	0	clear	M. Saillard, Director.
Beauvais, Normal School	29.87	758.7	30.14	765.5	59.4	15.2	39	e.			2		0			0	0	clear	M. Frère Eugène Mari.
Besançon, Normal School	29.13	739.9	30.03	762.8	61.2	16.2	52	ne.			1	0	1 cn		nw.	0	0	clear	M. Gobin, Director.
Bordeaux, Observatory	29.76	756.0	30.02	762.5	62.8	17.1	58	e.			1		1			0.020	0.5	almost clear	M. Rayet, Director.
Bourges, Normal School	29.45	748.0	30.05	763.2	62.6	17	42	se.			1				se.	0.083	2.1		M. Postel, Director.
Brest, Naval Observatory	29.95	760.8	30.20	767.0	50.7	10.4	72	nne.			2		7		nne.	0	0		M. de Kermaree, Dir.
Caen, Normal School	30.07	763.8	30.14	765.6	52.5	11.4	83	n.			1		5		n.	0	0	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.61	752.2	29.93	760.2	63.3	17.4	49	calm			0		0			0	0	clear	M. Jadot, Director.
Charleville, Normal School																			M. Grimard, Director.
Clermont-Ferrand Obs'y	28.65	727.7	29.97	761.3	64.4	18.0	36	ne.			1	0	2 k			0.012	0.3	¼ covered	M. Alluard, Director.
Cluny, Normal School	29.19	741.4	30.02	762.5	60.8	16	91	n.			2					0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.25	743.0	30.13	765.2	59.2	15.1	39	e.			2	0	0			0	0	clear	Dr. Coulet, Director.
Gap, Normal School	27.52	698.9	29.98	761.4	59.9	15.5	21	e.			1		1		e.	0	0		M. Jeangirard, Director.
Gréasque, du. Rhone	28.89	733.9	30.00	762.1	63.1	17.3	44	se.			3		5		se.	0.087	2.2		M. Kina, Director.
Grenoble, Normal School	29.24	742 6	29.99	761.7	65.8	18.8	64	ese.			1	0	2 ks			0	0	slightly cld'y	M. Ablard, Director.
Guéret, Normal School	28.46	722.9	30.03	762.7	60.8	16	47	se.			1		k		se.	0	0		M. Rivoire, Director.
Lamballe, Normal School	29.91	759.8	30.19	766.8	52.9	11.6	76	ne.			3		2		ne.	0	0	foggy	M. Ollitrault, Director.
Lescar, Normal School	29.44	747.7	30.00	762.0	58.3	14.6	82	wsw.			1		8			0.291	7.4	very cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	30.07	633.8	30.17	766.4	57.2	14.0	76	ne.			2		8		ne.	0	0	⅛ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.98	736.1	30.02	762.6	61.7	16.5	54	nw.			1	0	5 k		n.	0.114	2.9	⅓ covered	M. André, Director.
Mans, Normal School	29.82	757.4	30.13	765.2	57.6	14.2	45	nw.			3		2		se.	0	0	slightly cld'y	M. Piboen, Director.
Marseille, Observatory	29.71	754.7	29.98	761.4	67.5	19.7	55	e.			1.2		6		ese.	0	0		M. Stephan, Director.
Montlouis l'Instituteur	24.73	628.1	29.57	751.1	34.7	1.5	100	ne.	7.4	3.3			10	ne.					M. Cave, for Dr. Fines.
Montpellier, Normal School	29.87	758.6	29.99	761.8	69.1	20.6	59	e.			2		5					raining	M. Galzin, Director.
Nancy, Normal School	29.30	744.3	30.08	764.1	54.0	12.2	46	ne.			2	0	0			0	0	clear	M. Hasse, Director
Nantes, Observatory	29.96	761.0	30.12	765.1	61.0	16.1	61	nne.			1-2	0	3 k		ne.	0	0		M. Larocque, Director.
Perpignan, Observatory	29.91	759.8	30.02	762.6	52.0	11.1	93	nw.	5.6	2.5			10	n.	e.	0.445	11.3		Dr. Fines, Director.
Pic-du-Midi, Summit	21.08	535.3			24.8	— 4.0		e.			1		10		e.	0.260	6.6	snowy	Gen'l de Nansouty, Dir.
Privas, Normal School	28.88	733.6	29.93	760.2	62.6	17	61	s.			1		0			0	0	clear	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.16	639.1			41.5	5.3	75	ene.			2	0	5 k			0.063	1.6	½ covered	M. Alluard, Director.
Rochefort, Naval Obs'y	30.02	762.4	30.05	763.2	64.8	18.2	100	ne.			1		0			0.004	0.1	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.89	759.3	30.11	764.8	60.4	15.8	69	nne.			3		0			0	0	clear	M. Mouillot, Director.
Rodez, Normal School	27.87	707.8	30.01	762.3	52.7	11.5	71	ne.			1		10			0.04	1.	raining	M. Serger, Director.
Rouen, Normal School	30.10	764.4	30.14	765.6	63.0	17.2	46	ne.			2		0			0	0	clear	M. Brotier.
Saint Maur, Observatory	29.95	760.6	30.11	764.8	59.7	15.4	43	ne.			2		0			0	0		M. Renou, Director.
Toulouse, Observatory	29.33	745.0	30.06	763.4	53.6	12.0	99	se.			1		10	se.		0.181	4.6	rain & sleet	M. Bailland, Director.
Versailles, Observatory	29.62	752.4	30.11	764.9	60.4	15.8	41	e.			3					0	0		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.83	757.6	30.12	765.0	59.2	15.2	44	ne.			2		0			0	0		M. Marié Davy, Director
German.																			
Bamberg	29.39	746.4	30.24	768.2	57.2	14.0	24	ese.			7	0	0			0	0		Prof. Dr. Hoh.
Berlin	30.27	768.9	30.45	773.5	51.6	10.9	40	ne.			4		0			0	0		Prof. Dr. Arndt.
Breslau	29.93	760.1	30.47	773.8	45.7	7.6	25	ese.			3		0			0	0		Royal University Obs'y.
Carlsruhe	29.73	755.2	30.17	766.4	57.9	14.4	34	ne.			2		0			0	0		Albert Senz.
Cassel	29.54	750.4	30.27	768.8	56.7	13.7	28	e.			5		0			0	0		Dr. H. Möhl.
Frankfort on the Main	29.85	758.3	30.22	767.6	59.4	15.2	21	e.			2		0			0	0		Physical Society.
Friedrichshafen	28.60	727.9	30.11	764.8	49.6	9.8	75	sw.			3		0			0	0		Wilhelm, Chief Tel.
Hamburg	30.39	771.9	30.48	774.3	51.8	11.0	42	ese.			4		0			0	0		E. Preller.
Kiel	30.49	774.5	30.51	774.9	46.4	8.0	56	ene.			2		0			0	0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.96	760.9	30.39	771.8	50.2	10.1	31	e.			5		0			0	0		H. Leppig, Asst.
Magdeburg	30.23	767.8	30.43	772 8	53.4	11.9	33	e.			2	0	0			0	0		Dr. Assmann.
Memel	30.48	774.1	30.52	775.3	39.4	4.1	63	nw.			4	0	0					clear	Issermann.
Munich	28.32	719.4	30.20	767.0	51.6	10.9	33	se.			5		0			0	0		Central Station.
Neufahrwasser	30.51	774.9	30.52	775 3	42.3	5.7	95	nne.			2		0			0	0		A. Lothes.
Neustadt, Palatinate	29.67	753.7	30.21	767.2	58.8	14.9	33	ene.			1		4			0	0		Dicknether.
Stuttgart	29.20	741.6	30.09	764.2	58.5	14.7	29	ne.			2		0			0	0		Prof. Dr. Schoder.
Wustrow	30.52	775 3	30.55	775.9	47.3	8.5	61	ene.			2	0	0			0	0		Profs. Brandes & Reimer
Greek.																			
Athens	29.64	752.9	30.04	763.0	52.0	11.1		ne.			2.5	9				0.098	2.5	sprinkling	Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.82	757.3	29.87	758.6	80.7	27.1	77	wsw.	31.0	13.8			4	w.		0	0	d. clouds	
Deesa	29.30	744.2	29.76	756.0	92.7	33.7	38	wsw.	12.0	5.4			4	wnw.		0	0	d. clouds	
Bombay	29.75	755.7	29.79	756.7	86.9	30.5	58	nw.	21.0	9.4			0			0	0	blue sky	
Poona, Yarrowda	27.92	709.2	29.70	754.4	100.6	37.8	11	wsw.	25.0	11.2			4		w.	0	0	d. clouds	
Belgaum	27.30	693.5	29.87	758.7	70.4	21.3	70	sse.	14.0	6.3			8	se.	e.	0.28	7.1	thund'r st'm	
Lahore	29.06	738.0	29.80	756.9	78.9	26.1	47	ne.	1.5	0.7			10			0	0	overcast	
Roorkee	28.85	732.8	29.74	755.3	87.2	30.7	23	calm	1.1	0.5			8			0	0	blue sky	
Agra	29.19	741.4	29.74	755.3	94.1	34.5	17	s.	2.4	1.1			6		sw.	0	0		
Nagpur	28.69	728.6	29.69	754.1	100.1	37.8	13	w.	4.8	2.2			5		w.	0	0	d. clouds	
Jubbulpore	28.42	721.7	29.73	755.2	94.7	34.8	13	w.	2.3	1.0			5		ne.	0	0	d. clouds	
Lucknow	29.39	746.5	29.76	755.8	94.0	34.4	14	wnw.	3.0	1.3			8			0	0	d. clouds	
Allahabad	29.44	747.7	29.74	755.4	93.7	34.3	21	calm	1.8	0.8			10			0	0	overcast	
Patna	29.60	751.9	29.78	756.5	91.4	33.0	23	nw.	2.6	1.2			6	nw.	nw.	0	0	d. clouds	
Hazaribagh	27.76	705.1	29.72	754.8	90.8	32.7	18	w.	5.3	2.4			10		w.	0	0		
Cuttack	29.72	754.9	29.80	757.0	86.1	30.1	65	ssw.	3.2	1.4			9			0	0		
Calcutta, Alipore	29.75	755.6	29.77	756.1	86.3	30.2	67	ssw.	9.0	4.0			3	w.		0	0	d. clouds	
Dhubri	29.66	753.4	29.78	756.4	82.7	28.2	61	ene.	8.6	3.8			4	wsw.		0	0		
Chittagong	29.74	755.3	29.83	757.6	81.7	27.6	80	sw.	3.8	1.7			0			0	0	blue sky	
Sibsagar	29.52	749.9	29.86	758.6	74.1	23.4	76	ne.	3.7	1.6			10	sw.	sw.	0.09	2.3	d. clouds	
Jeypore	28.30	718.9	29.70	754.4	94.9	34.9	17	sw.	4.1	1.8			6		w.	0	0	d. clouds	
Zanzibar, Africa	29.86	758.4			79.7	26.5	78	s.	8.8	3.9			9		se.	0.39	9.9	threatening	
Bellary	28.28	718.3			98.0	36.7	17	se.	5.7	2.5			10			0	0	blue sky	
Trichinopoly	29.55	750.6			93.3	34.1	35	se.	2	0.9			0			0	0	blue sky	
Italian.																			
Udine	29.77	756.1	30.18	766.5	58.5	14.7	25	e.		2.5	1.1		0			0.012	0.3		Prof. Giovanni Clodig.
Milan	29.67	753.6	30.19	766.7	60.1	15.6	35	ne.	7.4	3.3			7	ene.		0.051	1.3		Prof. Schiaparelli.
Padua	30.09	764.3	30.20	767.1	55.2	12.9	30	ese.	22.4	10.0			0			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.27	743.4	30.17	766.3	53.1	11.7	61	nw.	3.1	1.4			10			0	0		Prof. P. F. Denza.
Genoa	29.89	759.3	30.08	764.1	62.2	16.8	35	sw.	6.3	2.8			2			0.039	1.0		Prof. G. M. Garibaldi.
Mondovi	28.23	717.1	30.15	765.9	46.0	7.8	78	w.			6		8			0.559	14.2		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Italian.—Continued.																			
Pesaro	30.10	764.4	30.14	765.6	56.1	13.4	69	e.	23.0	10.3	.....	.....	0	.....	.....	0	0	.....	Prof. Luigi Guidi.
Florence	29.84	757.9	30.09	764.3	58.6	14.8	37	ne.	.....	.....	4	.....	8	.....	.....	0	0	.....	Prof. Costantino Pitter.
Leghorn	29.91	759.8	30.00	762.0	61.0	16.1	33	ne.	9.4	4.2	.....	.....	3	.....	.....	0	0	.....	Prof. P. Monte.
Rome	29.80	756.9	29.97	761.3	66.0	18.9	36	s.	7.4	3.3	.....	.....	8	.....	.....	0	0	.....	Prof. P. S. Ferrari.
Lecce	29.65	753.2	29.91	759.6	61.2	16.2	62	nne.	9.4	4.2	.....	.....	5	n.	.....	0.016	0.4	.....	Prof. C. de Giorgi.
Cosenza	29.05	737.9	29.94	760.5	59.4	15.2	72	nnw.	5.6	2.5	.....	.....	5	nw.	.....	0	0	.....	Prof. D. Conti.
Cagliari	29.69	754.1	29.88	759.0	62.1	16.7	66	s.	.....	.....	2	.....	10	.....	.....	0.004	0.1	.....	Prof. A. Pacinotti.
Palermo	29.71	754.7	29.96	761.0	62.1	16.7	56	ene.	5.6	2.5	.....	.....	10	.....	.....	0.016	0.4	.....	Prof. G. Ciaccialatore.
Syracuse	29.89	759.1	29.93	760.2	61.0	16.1	72	ese.	6.3	2.8	.....	.....	7	wsw.	.....	0	0	.....	Prof. Vincenzo Guiliano.
Sub-series.																			
Naples, S. R	29.45	748.1	29.98	761.4	60.1	15.6	52	ne.	10.5	4.7	.....	.....	4	e.	.....	0.012	0.3	.....	Prof. T. Brioschi.
Stelvio	22.17	563.2	.....	.....	32.9	0.5	56	e.	.....	.....	2	.....	1	.....	.....	0	0	misty	Prof. P. F. Denza.
Valdobbia	22.20	563.8	.....	.....	29.3	— 1.5	87	e.	.....	.....	6	.....	10	.....	.....	0.276	7.0	misty	Prof. P. F. Denza.
Japanese.																			
Aomori	30.13	765.3	30.17	766.3	38.0	3.3	68	w.	32.3	14.4	.....	0	4 ks	.....	w.	0	0	.....	K. Ogawa.
Hakodate	30.10	764.5	30.11	764.8	38.0	3.3	68	wnw.	12.0	5.4	.....	.....	3	.....	.....	0	0	clear	
Hiroshima, I. M. Obs'y	30.26	768.0	30.27	768.8	47.4	8.6	71	n.	1.4	0.6	.....	0	0	.....	.....	0	0	clear	K. Sasaki.
Kanazawa	30.20	767.1	30.31	769.9	42.3	5.7	82	se.	6.8	3.0	.....	ck	2 ks	.....	sw.	0	0	fair	S. Endo.
Kioto	30.12	765.0	30.31	769.9	43.6	6.4	75	n.	1.6	0.7	.....	0	0	.....	.....	0	0	.....	M. Tojima.
Kochi	30.26	768.6	30.29	769.3	48.6	9.2	82	nw.	4.7	2.1	.....	0	0	.....	.....	0	0	clear	
Nagasaki, I. M. Obs'y	30.11	764.8	30.32	770.1	46.3	7.9	65	ne.	5.7	2.5	.....	0	0	.....	.....	0	0	clear	S. Takehayashi.
Niigata	30.24	768.1	30.28	769.1	43.3	6.3	65	nw.	2.1	0.9	.....	ck	6 s	.....	.....	0.020	0.5	.....	
Nobiru	30.18	766.6	30.20	767.1	41.6	5.3	65	nnw.	15.7	7.0	.....	0	3 s	.....	.....	0	0	fair	H. Midzushina.
Supporo	.....	.....	.....	.....	31.9	— 0.1	87	se.	3.0	1.3	.....	.....	1	.....	.....	0.003	0.1	clear	
Tokei Obs'y, Yeddo	30.14	765.5	30.21	767.3	41.9	5.5	86	s.	4.4	2.0	.....	0	0	.....	.....	0	0	clear	The Staff.
Wakayama	30.21	767.3	30.26	768.6	49.5	9.7	61	nne.	10.4	4.6	.....	0	0	.....	.....	0	0	clear	Y. Kuwamuea.
Mauritius.																			
Mauritius Observatory	29.76	755.9	29.94	760.5	79.0	26.1	61	ese.	12.0	5.4	.....	1 c	6 k;ks	.....	sse.	0.07	1.8	fair	Oliver & Figon.
Mexican.																			
Guanajuato	23.69	601.6	29.91	759.6	64.4	18.0	53	sw.	.....	.....	.....	0	3 k;s	.....	.....	inap.	inap.	clear	Vicente Fernandez.
Leon	24.35	618.5	30.03	762.7	57.9	14.4	72	n.	.....	.....	1	9 c	0	nw.	.....	0	0	foggy	Prof. M. Leal.
Mazatlan	29.68	753.8	29.94	760.5	63.0	17.2	86	e.	1.6	0.8	.....	3 cs	2 k	w.	n.	0	0	fair	F. Quijano, C. E.
Mexico, Central Obs'y	23.05	585.4	30.14	765.5	51.8	11.0	64	calm	0	0	.....	0	1	.....	.....	0	0	fine	The Staff.
Morelia	24.23	615.5	30.36	771.2	58.3	14.6	74	se.	.....	.....	3	2	0	s.	.....	0	0	¼ clouded	M. Tena, M. D.
Pabellon, Aguascallentes	23.89	606.8	29.91	759.6	55.9	13.3	59	calm	0	0	.....	4 c	0	wnw.	.....	0	0	clear	M. V. de Leon, M. E.
Puebla, Catholic Institute	23.35	593.1	29.98	761.4	59.0	15.0	88	calm	0	0	.....	0	5	.....	ssw.	0	0	cloudy	Prof. P. Spina.
San Luis Potosi	24.06	611.0	29.92	760.0	60.6	15.9	63	e.	.....	.....	1	3	0	w.	.....	0	0	foggy	G. Barroeta, M. D.
Zacatecas	22.56	573.0	30.18	766.5	57.2	14.0	91	.....	.....	.....	.....	6	0	w.	.....	0	0	½ cloudy	J. A. Bonilla, M. E.
Netherlands.																			
Flushing	30.24	768.1	30.24	768.1	55.9	13.3	.....	e.	.....	.....	4	.....	.....	.....	.....	0	0	.....	
Groningen	30.34	770.5	30.39	771.9	51.6	10.9	.....	e.	.....	.....	4	.....	.....	.....	.....	0	0	.....	
Helder	30.33	770.4	30.33	770.4	48.6	9.2	.....	e.	.....	.....	4	.....	.....	.....	.....	0	0	.....	
Hellevoetsluis	30.25	768.4	30.25	768.4	55.6	13.1	39	e.	.....	.....	3	.....	.....	.....	.....	0	0	.....	
Utrecht	30.24	768.1	30.29	769.3	58.5	14.7	34	ene.	.....	.....	3	.....	0	.....	.....	0	0	clear	H. van der Brink.
Norwegian.																			
Bergen	30.51	775.0	30.58	776.6	48.9	9.4	37	nw.	9	4	.....	.....	0	.....	.....	0	0	.....	
Brono	30.52	775.2	30.56	776.2	42.4	5.8	82	sw.	18	8	.....	.....	8	.....	.....	0	0	.....	
Christiania	30.36	771.1	30.51	774.9	55.2	12.9	34	calm	0	0	.....	.....	0	.....	.....	0	0	.....	
Gjæsvær	30.08	764.0	30.10	764.6	38.8	3.8	.....	w.	.....	.....	7	.....	10	.....	.....	.....	.....	raining	
Lodingen	30.40	772.1	30.45	773.3	37.4	3.0	86	w.	.....	.....	4–6	.....	9	.....	.....	.....	.....	.....	
Portuguese.																			
Angra, Azores	.....	.....	.....	.....	61.2	16.2	73	se.	11.2	5.0	.....	.....	7	.....	.....	0	0	.....	Dr. J. A. Sampaio.
Campo Major	28.91	734.4	29.90	759.5	63.0	17.2	50	wsw.	3.1	1.4	.....	.....	9	.....	.....	0	0	.....	Dr. A. M. R. dos Santos.
Funchal, Maderia	30.04	762.9	30.12	765.1	64.2	17.9	55	sw.	.....	.....	.....	.....	8	.....	.....	0	0	.....	Capt. D. A. de Cunha.
Lisbon, Observatory	29.61	752.1	29.97	761.2	59.9	15.5	55	n.	16.8	7.5	.....	.....	2	.....	.....	0	0	.....	The Staff.
Ponta Delgada, Azores	30.08	764.0	30.15	765.8	62.2	16.8	64	sse.	17.4	7.8	.....	.....	3	.....	.....	0	0	.....	
Saint Paul de Loando	29.67	753.7	29.87	758.8	81.5	27.5	84	ese.	1.3	0.6	.....	.....	2	sse.	.....	0	0	.....	
Serra da Estrella	25.17	639.4	30.00	762.1	37.4	3.0	83	ese.	16.1	7.2	.....	.....	9	.....	.....	0.039	1.0	.....	
Russian.																			
Akmolinski	28.83	732.3	29.98	761.6	16.3	— 8.7	69	n.	4	2	.....	.....	9 k;n	.....	.....	0	0	.....	Major K. Lasarew.
Archangel	30.15	765.9	30.17	766.4	29.8	— 1.2	88	wnw.	4	2	.....	.....	10	.....	.....	0	0	.....	Capt. Sselliwerstow.
Astrakhan	30.11	764.8	30.03	762.7	42.1	5.6	48	nne.	7	3	.....	0	8 ks	.....	.....	0	0	.....	Capt. Wisganow.
Barnaul	29.23	742.5	29.76	755.8	25.3	— 3.7	87	w.	22	10	.....	.....	10	.....	.....	0.118	3.0	.....	Meteorological Obs'y.
Dorpat	30.12	765.1	30.37	771.5	44.6	7.0	48	nne.	9	4	.....	0	0	.....	.....	0	0	.....	Observatory.
Ekaterinburg	29.14	740.1	30.18	766.5	17.4	— 8.1	47	s.	4	2	.....	.....	0	.....	.....	0	0	.....	Meteorological Obs'y.
Kasan	29.86	758.5	30.15	765.8	25.7	— 3.5	44	nnw.	2	1	.....	.....	0	.....	.....	0	0	.....	Observatory.
Kertch	30.09	764.2	30.11	764.7	33.3	0.7	73	n.	7	3	.....	0	7 n	.....	.....	0.024	0.6	.....	Lagorio & Sastyres.
Kieff	29.61	752.2	30.28	769.1	35.6	2.0	26	n.	7	3	.....	c	10 ks	.....	.....	0	0	.....	Observatory.
Lugan	29.87	758.8	30.09	764.2	32.7	0.4	49	nne.	13	6	.....	.....	10	.....	.....	0	0	.....	Meteorological Obs'y
Moscow	29.58	751.2	30.07	763.7	39.2	4.0	44	nw.	4	2	.....	0	0	.....	.....	0	0	.....	Meteorological Obs'y.
Nikolaiev	30.19	766.8	30.26	768.6	37.8	3.2	44	nne.	18	8	.....	0	4 kn	.....	.....	0	0	.....	Capt. Kurdakow.
Nikolaievsk, on the Amoor	29.33	744.9	29.41	747.1	29.8	— 1.2	50	calm	0	0	.....	.....	0	.....	.....	0	0	.....	Lieut. Iwanow.
Pekin, China	29.92	759.9	30.06	763.5	59.0	15.0	22	sw.	7	3	.....	0	2 k	.....	.....	0	0	.....	Physical Observatory
St. Petersburg	30.31	769.8	30.32	770.2	41.7	5.4	53	wnw.	11	5	.....	ck	2 k	.....	.....	0	0	.....	Central Physical Obs'y
Ssemipalatinsk	29.25	742.9	29.94	760.4	28.8	— 1.8	72	sw.	9	4	.....	.....	10 s	.....	.....	0	0	.....	Major Lasaren.
Tashkend, Laboratory	28.08	713.2	29.60	751.9	64.4	18.0	63	calm	0	0	.....	.....	0	.....	.....	0	0	light clouds	Telch, A. M.
Tiflis	28.48	723.4	29.94	760.4	40.5	4.7	65	nnw.	18	8	.....	.....	10 s	.....	.....	0.083	2.1	.....	Physical Observatory
Vladivostok	30.03	762.7	30.10	764.4	34.9	1.6	48	calm	0	0	.....	0	0	.....	.....	0	0	.....	
Warsaw	30.02	762.4	30.46	773.6	43.5	6.4	32	n.	7	3	.....	0	0	.....	.....	.....	.....	.....	Astronomical Obs'y
Wilna	29.97	761.2	30.41	772.3	43.2	6.2	41	nw.	11	5	.....	.....	0	.....	.....	0	0	.....	Berg, Assistant.
Yeniseisk	29.15	740.5	29.46	748.2	18.9	— 7.3	62	wnw	13	6	.....	.....	6	.....	.....	0.283	7.2	.....	M. O. Marks.
Spanish.																			
Barcelona, Met. Obs'y	29.79	756.7	29.87	758.7	56.8	13.8	81	e.	9.8	4.4	.....	.....	9	.....	.....	0	0	squally	Antonio Rave, Director.
Bilbao, Met. Obs'y	29.99	761.8	30.05	763.3	56.1	13.4	76	n.	1.8	0.8	.....	.....	10	.....	.....	0.264	6.7	covered	Prof. Manuel de Naveran:
Burgos, Met. Obs'y	27.03	686.6	30.04	762.9	47.7	8.7	85	ne.	9.4	4.2	.....	.....	10	.....	.....	0.035	0.9	covered	Domingo Martin.
Madrid, Royal Obs'y	27.69	703.3	29.93	760.2	58.3	14.6	54	ne.	16.1	7.2	.....	.....	9	.....	.....	0	0	almost cov'd	The Staff.
Murcia, Met. Obs'y	29.71	754.5	29.85	758.2	62.4	16.9	63	nne.	4.5	2.0	.....	4	5	sw.	.....	0	0	cloudy	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.15	740.4	30.06	763.6	49.5	9.7	83	n.	15.0	6.7	.....	.....	10	.....	.....	0.012	0.3	misty	R. Gil Vallanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I	30.03	762.8	30.10	764.5	73.0	22.8	91	calm	0	0	.....	c	0	.....	.....	0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.94	760.4	29.99	761.8	81.1	27.3	72	ne.	1.3	0.6	.....	0	7 ks	.....	e.	0.197	5.0	cloudy	F. Faura, S. J.
San Fernando, Naval Obs'y	29.86	758.4	29.96	760.9	60.3	15.7	71	w.	4.2	1.9	.....	0	5	.....	se.	0	0	.....	Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	30.02	762.5	30.11	764.8	75.6	24.2	72	ne.	21.9	9.8	.....	0	8 ku	.....	ne.	0	0	cloudy	Manuel Maeu.
Tuguegarao, Philippine Id's	29.96	761.0	30.09	764.3	75.8	24.3	92	nw.	4.3	1.9	.....	.....	10 kn	.....	n.	0.01	0.3	covered	José L. Yrastorza.
Swedish																			
Haparanda	30.39	771.9	30.43	772.9	43.5	6.4	62	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	
Umea	30.39	772.0	30.45	773.3	44.6	7.0	55	w.	.....	.....	2	.....	1	.....	.....	0	0	.....	
Hernosand	30.45	773.4	30.50	774.7	51.3	10.7	57	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	
Stockholm	30.35	771.0	30.53	775.5	47.1	8.4	42	e.	.....	.....	2	.....	0	.....	.....	0	0	.....	
Wisby	30.45	773.4	30.51	774.9	38.8	3.8	97	n.	.....	.....	4	.....	0	.....	.....	0	0	.....	
Sub-series.																			
Upsala	30.41	772.3	30.49	774.5	49.6	9.8	42	n.	4.3	1.9	.....	.....	0	.....	.....	0	0	.....	S. G. Fineman.
Swiss.																			
Geneva	28.63	727.3	30.06	763.6	53.6	12.0	58	n.	.....	.....	2	.....	.....	.....	.....	0	0	clear	The Observatory

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
TURKISH.																			
Constantinople	.....	.....	30.14	765.5	44.1	6.7	47	nne.	10	4.5	.....	.....	7	.....	ne	0	0	.....	The Observatory.
Valona	.....	.....	30.00	762.1	56.7	13.7	.....	nw.	.....	.....	1	.....	10	.....	.....	0.08	2.	raining.....	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	29.85	758.3	65.8	18.8	74	sw.	.....	.....	3	0	3 k	.....	sw.	1.065	27.0	.....	Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	30.46	773.7	30.54	775.7	37	2.8	61	ne.	2	0.9	.....	.....	10 s	.....	.....	0	0	cloudy	J. O. Barnes.
Alpena, Michigan	29.46	748.3	30.15	765.8	34	1.1	78	se.	24	10.7	.....	.....	10 s	.....	.....	0.09	2.3	cloudy	Jas. J. Fitzgerald.
Atlanta, Georgia	29.04	737.6	30.23	767.8	60.5	15.8	79	e.	9	4.0	.....	10 c	0	w.	.....	0	0	cloudy.....	H. Hall.
Atlantic City, New Jersey	30.45	773.4	30.46	773.7	40.7	4.8	82	e.	17	7.6	.....	.....	10 s	.....	e.	0.09	2.3	cloudy	Jas. M. Watson.
Augusta, Georgia	30.09	764.3	30.28	769.1	60.0	15.6	81	calm	0	0	.....	0	fg.	.....	.....	0	0	clear.....	John Healy.
Baltimore, Maryland	30.40	772.1	30.45	773.4	44	6.7	83	e.	10	4.5	.....	.....	10 s	.....	e.	0.02	0.5	cloudy	Robert Seyboth.
Barnegat, New Jersey	30.46	773.7	30.48	774.2	39.8	4.3	80	e.	20	8.9	.....	.....	10 s	.....	.....	0.35	8.9	cloudy	Chas. F. Merritt.
Bismarck, Dakota	27.91	708.9	29.78	756.4	33	0.6	88	nw.	4	1.8	.....	.....	10 s	.....	.....	0.12	3.0	cloudy.....	Cyrus Cramer.
Boise City, Idaho	26.91	683.5	29.75	755.6	32	0.0	88	nw.	12	5.4	.....	.....	10 n	.....	calm	0.34	8.6	light rain....	B. E. Light.
Boston, Massachusetts	30.43	772.9	30.59	777.0	37.0	2.8	61	ne.	9	4.0	.....	0	hz.	.....	.....	0	0	clear.....	O. B. Cole.
Brownsville, Texas	29.88	758.9	29.92	760.0	69	20.6	90	calm	0	0	.....	5 c	0	.....	.....	0	0	fair.....	J. C. Galloway.
Buffalo, New York	29.48	748.8	30.25	768.3	37	2.8	86	ne.	7	3.1	.....	.....	10 s	.....	s.	0.01	0.3	cloudy	Wm. Finn.
Burlington, Vermont	30.25	768.3	30.55	776.0	26.5	— 3.1	69	calm	0	0	.....	5 ck	0	nw.	.....	0	0	fair.....	G. C. Schaeffer.
Cairo, Illinois	29.62	752.3	30.03	762.7	65.6	18.7	91	s.	19	8.5	.....	.....	10 n	.....	s.	0.62	15.7	light rain....	W. H. Ray.
Campo, California	27.41	696.2	29.99	761.7	42	5.6	92	sw.	8	3.6	.....	.....	10 n	.....	w.	0.03	0.8	light rain....	W. H. Clendenon.
Camp Thomas, Arizona	27.10	688.3	29.83	757.7	42	5.6	67	calm	.....	.....	0	0	0	.....	.....	0	0	clear.....	J. T. Fitzgerald.
Cape Henry, Virginia	30.38	771.6	30.40	772.1	46	7.8	83	ne.	27	12.1	.....	.....	10 s	.....	.....	0.06	1.5	cloudy	J. E. Lanouette.
Cape May, New Jersey	30.44	773.2	30.47	773.9	45	7.2	83	e.	15	6.7	.....	.....	10 s	.....	.....	0.01	0.3	cloudy	W. Bolten.
Cedar Keys, Florida	30.17	766.3	30.19	766.8	68	20.0	90	e.	10	4.5	.....	0	sk.	.....	.....	0.09	2.3	clear.....	F. W. Mixer.
Champaign, Illinois	29.09	738.9	29.93	760.2	59.0	15.0	90	s.	10	4.5	.....	.....	10 n	.....	s.	0.64	16.3	light rain....	L. A. Welsh.
Charleston, S. Carolina	30.20	767.1	30.26	768.6	64	17.8	93	e.	5	2.2	.....	3 cs	0	e.	.....	0	0	clear.....	J. H. Smith.
Charlotte, N. Carolina	29.38	746.2	30.24	768.1	61.0	16.1	78	sw.	2	0.9	.....	0	fg.	.....	.....	0	0	clear.....	D. O. Donoghue.
Chattanooga, Tennessee	29.37	746.0	30.20	767.1	62.0	16.7	67	ne.	5	2.2	.....	4 cs	sk.	s.	.....	0	0	fair.....	B. L. Goulding.
Cheyenne, Wyoming	23.80	604.5	29.80	756.9	33.7	0.9	72	w.	1	0.4	.....	0	1 s	.....	.....	0	0	clear.....	E. McGovern.
Chicago, Illinois	29.12	739.6	29.85	758.2	57.3	14.1	85	s.	10	4.5	.....	.....	10 n	.....	.....	0.16	4.1	light rain....	J. Mitchell.
Chincoteague, Virginia	30.38	771.6	30.40	772.1	42.3	5.7	93	e.	13	5.8	.....	.....	10 n	.....	e.	inap.	inap.	light rain....	V. P. Temple.
Cincinnati, Ohio	29.41	747.0	30.08	764.0	64.5	18.1	64	se.	5	2.2	.....	8 c;k	0	sw.;s	.....	0	0	cloudy	R. B. Watkins.
Cleveland, Ohio	29.36	745.7	30.12	765.0	47.8	8.8	87	se.	9	4.0	.....	.....	10 s	.....	.....	0.28	7.1	cloudy	J. B. Newlin.
Coleman City, Texas	28.13	714.5	29.95	760.7	55	12.8	100	s.	4	1.8	.....	.....	10 s	.....	s.	0.01	0.3	cloudy.....	L. Dorman.
Columbus, Ohio	29.21	741.9	30.08	764.0	58	14.4	80	se.	8	3.6	.....	6 cs	4 s	se.	.....	0	0	cloudy	D. Cuthbertson.
Concho, Texas	27.99	710.9	29.93	760.2	63	17.2	93	sw.	12	5.4	.....	.....	10 s	.....	s.	0	0	cloudy	W. W. McConihe.
Davenport, Iowa	29.05	737.9	29.72	754.9	58	14.4	75	s.	4	1.8	.....	0	2 s	.....	w.	0.10	2.5	clear.....	R. R. Martin.
Dayton, Washington T'y	28.09	713.5	29.84	757.9	38.3	3.5	91	sw.	11	4.9	.....	.....	10 s	.....	sw.	0.16	4.1	threatening	H. Clifford.
Deadwood, Dakota	25.06	636.5	29.75	755.0	32	0.0	100	ne.	1	0.4	.....	.....	fg.	.....	.....	inap.	inap.	dense fog....	G. W. Scott.
Decatur, Texas	.....	.....	.....	.....	61	16.1	60	se.	6	2.7	.....	0	4 s	.....	.....	0	0	fair.....	D. J. Carr.
Delaware Breakwater, Del.	30.43	772.9	30.45	773.4	43	6.1	83	e.	22	9.8	.....	.....	10 s	.....	calm	0	0	cloudy.....	A. Schneider.
Denison, Texas	29.11	739.4	29.91	759.7	68.0	20.0	90	s.	10	4.5	.....	.....	10 s	.....	s.	0.04	1.0	cloudy	J. McGlone.
Denver, Colorado	24.48	621.8	29.76	755.9	42.0	5.6	48	sw.	7	3.1	.....	0	4 s	.....	sw.	0	0	fair.....	F. M. Neal.
Des Moines, Iowa	28.69	728.7	29.62	752 3	54	12.2	86	sw.	8	3.6	.....	0	3 s	.....	sw.	0.95	24.1	clear.....	F. W. Conrad.
Detroit, Michigan	29.37	746.0	30.10	764.5	47.0	8.3	68	e.	9	4.0	.....	.....	10 s	.....	s.	0.12	3.0	cloudy.....	C. F. R. Wappenhans.
Dodge City, Kansas	27.22	691.4	29.86	758.4	42	5.6	76	w.	3	1.3	.....	0	0	.....	.....	0.02	0.5	clear.....	E. A. Thomas.
Dubuque, Iowa	28.93	734.8	29.66	753.4	53.7	12.1	64	s.	3	1.3	.....	0	fg.	.....	calm	0.02	0.5	clear.....	J. Harvey Smith.
Duluth, Minnesota	28.98	736.1	29.70	754.4	34	1.1	88	ne.	16	7.2	.....	.....	10 n	.....	ne.	0.85	21.6	light rain	N. B. Conger.
Eagle Pass, Texas	29.14	740.1	29.95	760.7	68.4	20.2	93	se.	4	1.8	.....	.....	10 s	.....	se.	0	0	cloudy	F. Belford.
Eagle Rock, Idaho	24.87	631.7	29.59	751.6	34	1.1	82	sw.	10	4.5	.....	.....	10 n	.....	.....	0.01	0.3	light snow..	J. M. Clifford.
Eastport, Maine	30.54	775.7	30.61	777.5	17.5	— 8.1	36	n.	15	6.7	.....	0	0	.....	.....	0	0	clear.....	J. H. Melton.
El Paso, Texas	26.18	665.0	29.92	760.0	40	4.4	59	ne.	1	0.4	.....	0	0	.....	.....	0	0	clear.....	J. F. Marshall.
Erie, Pennsylvania	29.43	747.5	30.18	766.6	42	5.6	92	ne.	4	1.8	.....	.....	10 s	.....	.....	0.12	3.0	cloudy	R. H. Paxton.
Escanaba, Michigan	29.23	742.4	29.92	760.0	35	1.7	89	e.	10	4.5	.....	.....	10 s	.....	e.	0.26	6.6	cloudy	C. Dill.
Florence, Arizona	28.34	719.8	29.84	757.9	46.0	7.8	68	w.	2	0.9	.....	0	0	.....	.....	0	0	clear.....	R. R. Herman.
Fort Apache, Arizona	25.07	636.8	29.99	761.7	35	1.7	69	e.	3	1.3	.....	0	0	.....	.....	0	0	clear.....	W. C. Barnes.
Fort Assinnaboine, Montana	26.91	683.5	29.81	757.2	35	1.7	66	ne.	17	7.6	.....	0	9 s	.....	ne.	0	0	cloudy.....	B. O. Lenoir.
Fort Bennett, Dakota	28.11	714.0	29.75	755.6	40	4.4	92	nw.	7	3.1	.....	.....	10 s	.....	.....	0.12	3.0	cloudy.....	T. Gibson.
Fort Benton, Montana	26.86	682.2	29.72	754.9	40	4.4	59	ne.	26	11.6	.....	.....	10 ks	.....	ne.	0	0	cloudy.....	S. Wheaton.
Fort Buford, Dakota	27.80	706.1	29.87	758.7	31	— 0.6	81	n.	1	0.4	.....	.....	10 s	.....	calm	0.08	2.0	cloudy.....	A. H. Bell.
Fort Custer, Montana	26.49	672.8	29.67	753.6	35	1.7	89	se.	3	1.3	.....	0	4 s	.....	calm	inap.	inap.	fair.....	V. Verge.
Fort Davis, Texas	25.06	636.5	29.84	757.9	43	6.1	43	se.	4	1.8	.....	0	0	.....	.....	0	0	clear.....	J. Williams.
Fort Elliott, Texas	27.06	687.3	29.84	757.9	44	6.7	47	calm	0	0	.....	0	0	.....	.....	0.32	8.1	clear.....	W. J. Cundall.
Fort Gibson, Indian T'y	29.30	744.2	29.88	758.9	67.5	19.7	90	s.	10	4.5	.....	0	2 s	.....	sw.	inap.	inap.	clear.	J. B. Campbell.
Fort Grant, Arizona	25.09	637.3	29.82	757.4	42	5.6	20	se.	2	0.9	.....	0	0	.....	.....	0	0	clear.....	T. J. Mackowan.
Fort Griffin, Texas	28.61	726.7	29.91	759.7	61	16.1	84	s.	4	1.8	.....	0	0	.....	.....	0	0	clear.....	G. H. Hayne.
Fort Keogh, Montana	27.23	691.6	29.77	756.1	33	0.6	88	calm	0	0	.....	.....	0	.....	.....	0.01	0.3	clear.....	W. B. Stockman.
Fort Macon, North Carolina	30.28	769.1	30.30	769.6	61	16.1	93	ne.	4	1.8	.....	0	10s;fog 9k;fg.	.....	ne;e	0.50	12.7	cloudy	L. Leonardy.
Fort McKavett, Texas	27.71	703.8	29.97	761.2	67	19.4	61	s.	9	4.0	.....	0	0	.....	.....	0	0	cloudy	J. E. Thatcher.
Fort Missoula, Montana	26.43	671.3	29.74	755.4	46	7.8	93	n.	5	2.2	.....	.....	10 n	.....	n.	0.26	6.6	clear.....	R. R. Herman.
Fort St. Michaels, Alaska	30.17	766.3	30.20	767.1	22	— 5.6	100	s.	10	4.5	.....	.....	10 s	.....	.....	inap.	inap.	heavy rain...	J. H. Jones.
Fort Shaw, Montana	26.03	661.2	29.70	754.4	35	1.7	82	n.	15	6.7	.....	.....	10 n	.....	.....	0.01	0.3	cloudy.....	A. P. Lenvitt.
Fort Sill, Indian Territory	28.61	726.7	29.85	758.2	50.5	10.3	84	s.	12	5.4	.....	0	0	.....	.....	0.08	2.0	light snow..	A. L. Mathews.
Fort Stevenson, Dakota	27.89	708.4	29.79	756.7	33	0.6	88	ne.	4	1.8	.....	.....	10 s	.....	.....	0.17	4.3	clear.....	T. Cleary.
Fort Verde, Arizona	.....	.....	.....	.....	51.2	10.7	43	s.	.....	.....	4	0	0	.....	.....	0	0	cloudy.....	W. Burrows.
Fort Washakie, Wyoming	24.09	611.9	.....	.....	32.7	0.4	90	nw.	4	1.8	.....	.....	9 k	.....	.....	0	0	clear.....	D. Brooks.
Fredericksburg, Texas	28.20	716.3	29.92	760.0	64	17.8	93	sw.	5	2.2	.....	.....	10 s	.....	.....	0	0	cloudy	T. M. Ambler.
Galveston, Texas	29.94	760.5	29.98	761.5	72	22.2	90	s.	7	3.1	.....	9 k	0	sw.	.....	0.03	0.8	cloudy.....	H. S. Miles.
Grand Haven, Michigan	29.26	743.2	29.95	760.7	43.0	6.1	93	e.	12	5.4	.....	.....	10 s	.....	e.	0.15	3.8	cloudy	E. O'C. MacInerney.
Hatteras, North Carolina	30.27	768.8	30.29	769.4	54	12.2	100	ne.	20	8.9	.....	0	9 s	.....	ne.	0	0	cloudy	W. A. Reid.
Helena, Montana	25.40	645.1	29.66	753.4	38	3.3	82	sw.	10	4.5	.....	.....	10 s	.....	sw.	0.01	0.3	cloudy.....	R. M. Crawford.
Henrietta, Texas	28.92	734.6	29.95	760.7	65.0	18.3	73	sw.	12	5.4	.....	0	0	.....	.....	0.01	0.3	clear.....	N. C. Smith.
Huron, Dakota	28.22	716.8	29.67	753.6	35	1.7	92	nw.	18	8.0	.....	.....	10 n	.....	.....	0.34	8.6	light rain....	J. W. Byram.
Indianapolis, Indiana	29.16	740.7	29.98	761.5	66.5	19.2	57	se.	9	4.0	.....	0	9 s	.....	w.	0	0	cloudy.....	S. W. Glenn.
Indianola, Texas	29.92	760.0	29.95	760.7	71.4	21.9	94	se.	5	2.2	.....	4 cs	3 ks	s.	s.	0	0	fair.....	O. Schutze
Jacksboro, Texas	28.72	729.5	29.90	759.4	62	16.7	84	s.	8	3.6	.....	0	0	.....	.....	inap.	inap.	clear.....	I. A. Reed.
Jacksonville, Florida	30.18	766.6	30.22	767.6	69	20.6	90	e.	5	2.2	.....	0	fg.	.....	.....	0	0	clear.....	J. P. Sherry.
Keokuk, Iowa	29.09	738.9	29.76	755.9	62.2	16.8	70	s.	15	6.7	.....	1 k	0	w.	.....	0.13	3.3	clear.....	J. W. Smith.
Key West, Florida	30.09	764.3	30.11	764.8	74.0	23.3	84	e.	5	2.2	.....	0	3 k	.....	e.	0	0	clear.....	F. Z. Gosewisch
Kittyhawk, North Carolina	30.32	770.1	30.34	770.6	46	7.8	100	ne.	25	11.2	.....	.....	fg.	.....	.....	1.15	29.2	dense fog....	L. M. Melbourne.
Knoxville, Tennessee	29.16	740.7	30.20	767.1	62	16.7	72	calm	0	0	.....	6 c	sk.	sw.	.....	0	0	fair	E. A. Beals.
La Crosse, Wisconsin	28.79	731.3	29.59	751.6	50	10.0	77	se.	5	2.2	.....	.....	0	.....	.....	0	0	clear.....	J. A. Cody.
La Mesilla, New Mexico	26.02	660.9	29.90	759.4	39.0	3.9	52	calm	0	0	.....	0	7 s	.....	s.	0.46	11.7	fair	S. C. Emery.
Leavenworth, Kansas	28.85	732.8	29.76	755.9	56	13.3	80	s.	14	6.3	.....	0	0	.....	.....	0	0	clear	N. D. Lane.
Lewiston, Idaho	28.96	735.6	29.81	757.2	45	7.2	96	nw.	5	2.2	.....	0	0	.....	.....	0.34	8.6	clear.....	A. W. Browne.
Little Rock, Arkansas	29.66	753.4	29.98	761.5	69	20.6	93	s.	9	4.0	.....	.....	10 n	.....	.....	0.04	1.0	light rain....	W. Blake.
Los Angeles, California	29.63	752.6	30.03	762.7	54.3	12.4	86	ne.	11	4.9	.....	0	8 s	.....	s.	1.70	43.2	cloudy.....	W. U. Simmons.
Louisville, Kentucky	29.46	748.3	30.03	762.7	66	18.9	54	s.	8	3.6	.....	0	3 s	.....	ne.	0.02	0.5	clear.....	E. F. Kubel.
Lynchburg, Virginia	29.66	753.4	30.37	771.4	51.0	10.6	83	ne.	5	2.2	.....	.....	10 s	.....	.....	0	0	cloudy	H. C. Smyth.
Madison, Wisconsin	28.67	728.2	29.71	754.6	48	8.9	93	se.	10	4.5	.....	.....	10 s	.....	ne.	0	0	cloudy.....	W. R. Bushby.
Marquette, Michigan	29.14	740.1	29.89	759.2	35	1.7	89	se.	9	4.0	.....	3 cs	1 s	w.	w.	0.65	16.5	clearing.....	O. A. Shaw.
Mason, Texas	28.29	718.6	29.94	760.5	67.8	19.9	84	sw.	7	3.1	.....	.....	10 s	.....	se.	0.22	5.6	cloudy	J. Gilligan.
Memphis, Tennessee	29.69	754.1	30.03	762.7	69	20.6	84	se.	8	3.6	.....	.....	10 s	.....	sw.	0	0	cloudy.....	P. M. Wilson.
Milwaukee, Wisconsin	29.05	737.9	29.82	757.4	42	5.6	100	se.	13	5.8	.....	.....	10 n	.....	se.	0.09	2.3	light rain....	D. T. Flannery.
													10 n			0.25	6.3	light rain....	W. Line.

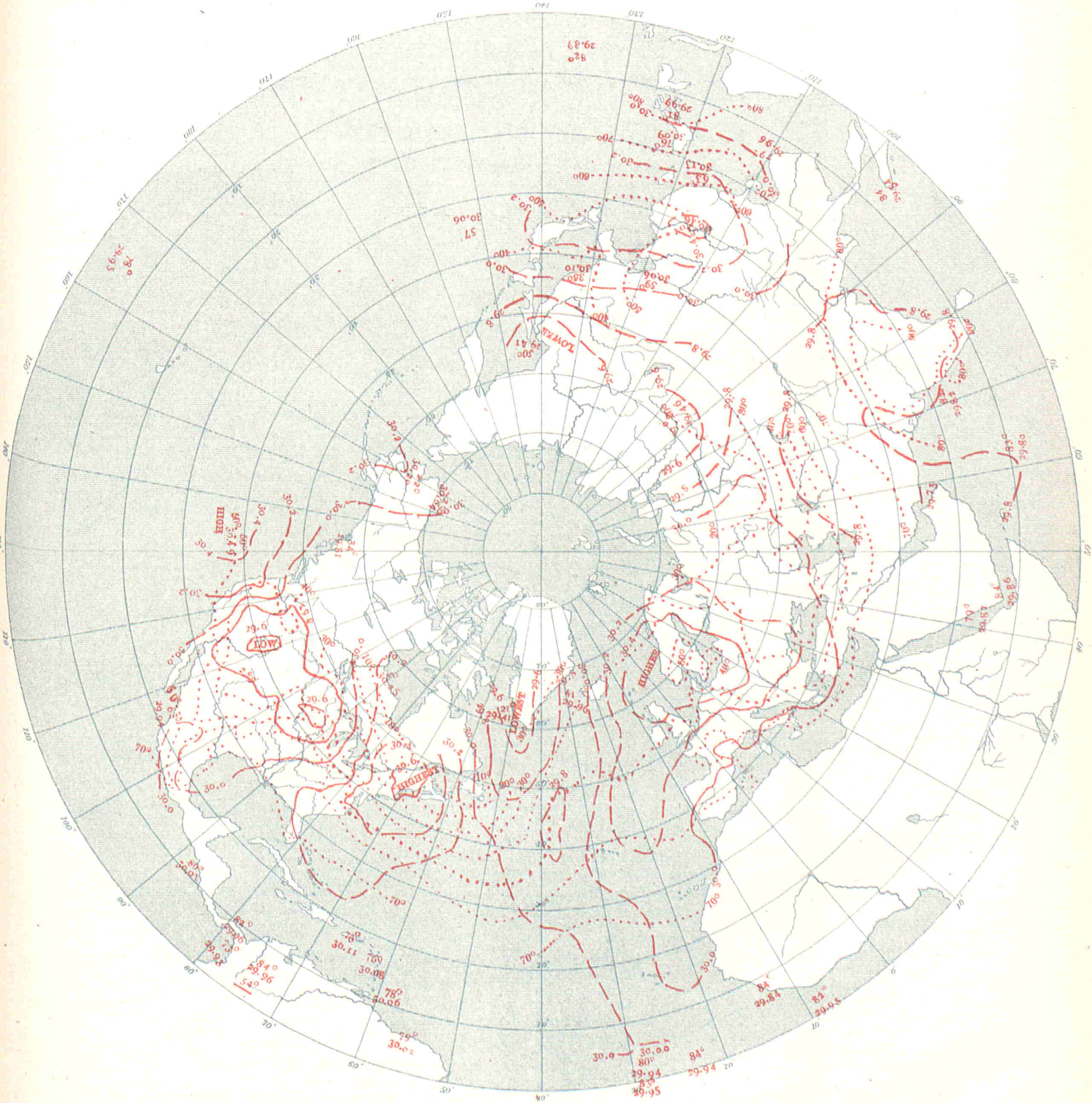
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–01	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
UNITED STATES.—Cont'd.																			
Mobile, Alabama	30.06	763.5	30.10	764.5	70	21.1	90	se.	1	0.4			10s;ks		se.	0	0	cloudy	J. D. Paxton.
Montgomery, Alabama	29.93	760.2	30.15	765.8	66.3	19.1	80	se.	4	1.8		6 c	0	w.		0	0	fair	J. B. McLaughlin.
Moorhead, Minnesota	28.66	728.0	29.69	754.1	34	1.1	100	n.	8	3.6			10 n		n.	0.25	6.3	heavy rain	H. Bessant.
Morgantown, W. Virginia	29.16	740.7	30.20	767.1	58.5	14.7	67	e.	1	0.4		2 ck	fg.			0.02	0.5	clear	G. C. Lewis.
Mt. Washington, N. H.	23.92	607.6	30.33	770.4	9.0	—12.8	73	nw.	28	12.5		0	0			0	0	clear	J. G. Linsley.
Nashville, Tennessee	29.54	750.3	30.08	764.0	67.0	19.4	55	se.	4	1.8		9 cs	hz.	sw.		0	0	cloudy	L. A. Jesunofsky.
New Haven, Connecticut	30.43	772.9	30.55	776.0	32	0.0	68	ne.	11	4.9		9 cs	0	nw.		0	0	cloudy	J. H. Sherman.
New London, Connecticut	30.54	775.7	30.59	777.0	38	3.3	61	ne.	6	2.7		0	0			0	0	clear	J. G. Lynch.
New Orleans, Louisiana	29.97	761.2	30.03	762.7	72.4	22.4	97	s.	10	4.5			10 s		s.	0.24	6.1	cloudy	S. Dunne.
Newport, Rhode Island	30.52	775.2	30.57	776.5	35.4	1.9	65	ne.	7	3.1		0	0			0	0	clear	W. McGillivray.
New River, N. Carolina					61	16.1	94	ne.			1	2 c	hz.	e.		0	0	clear	C. C. Corbin.
New Shoreham, Rhode I'd.	30.54	775 7	30.56	776.2	36.8	2.7	61	e.	14	6.3		0	0			0	0	clear	W. Davis.
New York, New York	30.35	770.9	30.53	775.4	37	2.8	82	ne.	15	6.7			10 s			0.06	1.5	cloudy	E. B. Garriott.
Norfolk, Virginia	30.35	770.9	30.38	771.6	47	8.3	86	e.	8	3.6			10 s			0.06	1.5	cloudy	J. T. Elker.
North Platte, Nebraska	26.82	681.2	29.78	756.4	41.1	5.1	76	sw.	6	2.7		0	0			0	0	clear	E. F. Brady.
Olympia, Washington T'y	29.98	761.5	30.02	762.5	41.0	5.0	73	sw.	16	7.2		7 k	0	w.		0	0	fair	J. Dascomb.
Omaha, Nebraska	28.43	722.1	29.64	752.8	50.3	10.2	89	sw.	12	5.4		0	0			0	0	clear	A. Pollak.
Ooglaamle, Pt. Barrow, Alas.	30.02	762.5	30.04	763.0	—23.4	—30.8	40	ese.	11	4.9		hz.	7 s			0.68	17.3	fair	P. H. Ray.
Oswego, New York	30.02	762.5	30.36	771.1	37.6	3.1	52	se.	14	6.3			10 s			0.01	0.3	cloudy	S. W. Beall.
Palestine, Texas	29.43	747.5	29.99	761.7	68.0	20.0	93	se.	4	1.8			10 ks		se.	0.02	0.5	cloudy	L. M. Pindell.
Pensacola, Florida	30.10	764.5	30.12	765.0	70.3	21.3	94	e.	9	4.0		0	4 s		s.	0	0	fair	M. McGauran,
Philadelphia, Pa	30.39	771.9	30.49	774.4	43	6.1	83	e.	7	3.1			10 s		e.	0.06	1.5	cloudy	T. F. Townsend.
Pike's Peak, Colorado	17.50	444.5	29.78	756.4	10	—12.2	87	w.	24	10.7		0	3 s		w.	0.05	1.3	clear	L. M. Dey.
Ploche, Nevada	23.69	601.7	29.68	753.9	31	— 0.6	80	nw.	2	0.9			10 n		calm	0.03	0.8	light snow	C. N. Kitchel.
Pittsburg, Pennsylvania	29.36	745.7	30.19	766.8	53.0	11.7	80	e.	6	2.7		10 cs	0			0	0	cloudy	J. H. Bryce.
Port Eads, Louisiana	30.06	763.5	30.07	763.8	71.1	21.7	100	se.	8	3.6		0	3 s		se.	0.08	2.0	clear	H. G. Christian.
Port Huron, Michigan	29.40	746.7	30.10	764.5	37.8	3.2	94	se.	6	2.7			10 s			0.29	7.4	cloudy	W. O. Bailey.
Portland, Maine	30.57	776.5	30.62	777.7	30.0	— 1.1	47	ne.	12	5.4		0	0			0	0	clear	D. C. Murphy.
Portland, Oregon	30.04	763.0	30.11	764.8	40.0	4.4	82	sw.	4	1.8			10 s		sw.	0.47	11.9	cloudy	M. L. Hearne.
Portsmouth, N. Carolina					55	12.8	74	ne.	17	7.6			10 s		calm	0	0	cloudy	F. P. Chaffee.
Prescott, Arizona	24.50	622.3	29.72	754.9	45	7.2	58	s.	20	8.9		0	0			0	0	clear	J. McN. Wright.
Provincetown, Mass.	30.55	776.0	30.58	776.7	35	1.7	69	e.	5	2.2		1 k	0			0	0	clear	P. T. Jenkins.
Punta Rassa, Florida	30.12	765.0	30.13	765.3	70	21.1	87	e.	7	3.1		0	0			1.26	32.0	clear	W. J. Evans.
Red Bluff, California	29.76	755.9	30.13	765.3	41.7	5.4	58	nw.	7	3.1		0	0			0.08	2.0	clear	J. M. Frantz.
Rio Grande City, Texas	29.67	753.6	29.91	759.7	72	22.2	90	se.	6	2.7			10 s		se.	0	0	cloudy	W. H. Taylor.
Rochester, New York	29.62	752.3	30.31	769.9	35	1.7	89	e.	7	3.1			10n;fg		se.	0.05	1.3	light rain	A. T. Sherwood.
Roseburg, Oregon	29.66	753.4	30.22	767.6	36	2.2	89	sw.	3	1.3			10 s		sw.	0.77	19.6	threatening	J. J. Nanry.
Sacramento, California	30.07	763.8	30.15	765.8	44.4	6.9	68	nw.	6	2.7		0	0			0.18	4.6	clear	J. A. Barwick.
St. Louis, Missouri	29.29	744.0	29.90	759.4	62.9	17.2	90	s.	13	5.8		0	6 s		s.	0.29	7.4	clearing	J. H. Webber.
St. Paul, Minnesota	28.66	728.0	29.55	750.6	40.5	4.7	90	e.	12	5.4			10 n		e.	0.36	9.1	light rain	P. F. Lyons.
St. Vincent, Minnesota	28.86	733.0	29.77	756.1	31	— 0.6	100	ne.	4	1.8			10 n		calm	0.07	1.8	light rain	G. Kingsbury.
Salt Lake City, Utah	25.18	639.6	29.55	750.6	40	4.4	82	w.	9	4.0			10 n			0.10	2.5	light rain	J. Craig.
San Antonio, Texas	29.26	743.2	29.96	761.0	68.0	20.0	93	calm	0	0			10 s		calm	0	0	cloudy	E. Lane.
San Diego, California	29.95	760.7	30.02	762.5	54.3	12.4	71	w.	14	6.3		8 k	2 s	w.	w.	inap.	inap.	cloudy	A. C. Dobbins.
Sandusky, Ohio	29.39	746.5	30.09	764.3	43.2	6.2	93	e.	13	5.8			fg.			0.38	9.7	dense fog	M. H. Perry.
Sandy Hook, New Jersey	30.50	774.7	30.54	775.7	40.0	4.4	89	e.	18	8.0			10 n		e.	0.08	2.0	light rain	B. A. Blundon.
San Francisco, California	30.15	765.8	30.22	767.6	45	7.2	53	w.	17	7.6		0	0			0.30	7.6	clear	N. Gorom.
Santa Fé, New Mexico	23.08	586.2	29.84	757.9	35.3	1.8	60	e.	2	0.9		0	0			0	0	clear	H. U. Jones.
Savannah, Georgia	30.16	766.1	30.25	768.3	65	18.3	84	se.	3	1.3		3 c	1 k			0	0	fair	H. W. Ford.
Shreveport, Louisiana	29.75	755.6	29.99	761.7	69	20.6	93	s.	2	0.9		1 c	8 s		s.	0.70	17.8	cloudy	E. N. Meekins.
Silver City, New Mexico	24.14	613.1	29.82	757.4	37	2.8	40	calm	0	0			0			0	0	clear	J. B. Wallace.
Sitka, Alaska	29.74	755.4	29.81	757.2	34	1.1	78	se.	4	1.8			10 n			0.23	5.8	light snow	J. J. McLean.
Smithville, North Carolina	30.26	768.6	30.30	769.6	62	16.7	100	ne.	5	2.2		0	5 ks		sw.	0	0	fair	O. Parker.
Spokane Falls, Wash. Ter.	27.74	704.6	29.80	756.9	39	3.9	92	w.	4	1.8			10 s			0.27	6.9	cloudy	D. Moore.
Springfield, Illinois	29.27	743.4	29.97	761.2	60	15.6	81	s.	6	2.7		0	4 s		sw.	0.28	7.1	fair	T. B. Jennings.
Springfield, Massachusetts	30.44	773.2	30.57	776.5	36.8	2.7	61	e.	3	1.3		1 ck	0			0	0	clear	T. S. Outram.
Springfield, Mo.	28.43	722.1	29.95	760.7	65	18.3	84	s.	12	5.4		0	6 ks		sw.	0.30	7.6	fair	J. B. Marbury.
Stockton, Texas	26.89	683.0	29.92	760.0	47.0	8.3	100	s.	4	1.8		0	1 s		se.	0	0	clear	J. O'Dowd.
Thatcher's Island, Mass.	30.55	776.0	30.60	777.2	45.0	7.2	60	se.	7	3.1		2 k	0	sw.		0	0	clear	G. Liebmann.
Toledo, Ohio	29.37	746.0	30.08	764.0	42.2	5.7	99	e.	6	2.7			fg.			0.15	3.8	dense fog	A. Buell.
Tucson, Arizona	27.46	697.5	29.85	758.2	48	8.9	66	se.	3	1.3		0	0			0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.55	750.6	29.92	760.0	41.8	5.4	65	sw.	28	12.5		4 cs	0	sw.		0.02	0.5	fair	J. Daly.
Uvalde, Texas	28.96	735.6	29.94	760.5	67	19.4	93	calm	0	0			10 s		s.	0.01	0.3	cloudy	E. C. Imlay.
Vicksburg, Mississippi	29.78	756.4	30.04	763.0	68	20.0	84	se.	6	2.7		0	9 s		s.	0	0	cloudy	T. J. Kenan.
Visalia, California	29.74	755.4	30.11	764.8	43.1	6.2	83	nw.	8	3.6		3 k	0	nw.		0.10	2.5	clear	J. T. Cochran.
Washington, D. C.	30.33	770.4	30.45	773.4	43.5	6.4	87	ne.	6	2.7			10 s		ne.	inap.	inap.	cloudy	B. M. Purssell.
West Las Animas, Colorado	25.83	656.1	29.79	756.7	31	— 0.6	62	calm	0	0		0	0			0	0	clear	J. Grover.
Wickenburg, Arizona					47	8.3	93	calm			0	0	0			0	0	clear	H. A. Kremp.
Williamsport, Pa	29.80	756.9	30.41	772.4	43.5	6.4	55	se.	3	1.3			10 ks		s.	0.22	5.6	cloudy	B. F. Hough.
Wilmington, N. Carolina	30.23	767.8	30.29	769.4	62	16.7	87	e.	1	0.4		hz.	hz.			0	0	hazy	E. W. McGann.
Winnemucca, Nevada	25.34	643.6	29.74	755.4	30	— 1.1	92	ne.	5	2.2			10 n		calm	0.49	12.4	light snow	J. R. Williams.
Yankton, Dakota	28.25	717.5	29.59	751.6	41	5.0	92	ne.	18	8.0			10 ks		ne.	0.55	14.0	cloudy	J. H. Atfield.
Yuma, Arizona	29.69	754.1	29.84	757.9	59.0	15.0	56	w.	12	5.4		0	0			0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.04	559.8			54.0	12.2	77	w.	1	0.4		4 c;k	2 ks		sw.	0.84	21.3	cloudy	Joaquin Gomez.
Bridgetown, Barbados, W.I.	30.05	763.3	30.06	763.5	78	25.6	90	e.				5 k	5 ks	e.	e.	0	0	fair	J. A. Racker.
Buenaventura, U. S. C.																			J. I. Plume.
Guadeloupe, W. I.	29.96	761.0	29.98	761.5	75	23.9	83	e.				0	1 ks			0.472	12.0	clear	B. Bigar.
Havana, Cuba, W. I.	30.09	764.3	30.14	765 5	76	24.4	85	se.	1.2	0.5		1 cs	2 ks	calm	calm	0	0	fair	A. Van Caneghem.
Kingston, Jamaica, W. I.	30.06	763.5	30.07	763.8	75.5	24.2	76	calm	0	0		0	0			0.02	0.5		Robert Johnston.
Navassa																			F. M. Everett.
Paramaribo, S. A.	30.02	762.5	30.02	762.5	79	26.1	87	e.			2	6 k	8 ks			0.680	17.3		Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.50	749.3	29.96	761.0	84	28.9	81	nw.			1	8 ck	1 k	n.	nw.	0	0	cloudy	Miss Flora A. Nichols.
Rivas, Nicaragua, C. A.							92	ne.			2	0	d		ne.	0	0	clear	Earl Flint.
Santiago de Cuba, W. I.	30.04	763.0	30.06	763.5	78	25.6	58	calm	0	0		0	2 s		n.	0	0	fair	Robert Mason.
York Factory, B. A.	30.20	767.1	30.25	768.3	1.0	—17.2	86	nw.	10	4.5			10 n		nw.	0.05	1.3	snowing	W. Wood.

STATIONS AND VESSELS.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
British Naval.																		
H. M. S. Agincourt, N. 36° 07′, W. 5° 21′	29.94	760.5	59	15.0	81	nw.			1		1	nw.						blue sky.
H. M. S. Alert, S. 60° 05′ E. 53° 09′	29.82	757.4	88	31.1	72	se.			1–2		8							d. clouds.
H. M. S. Alexandra, Port Augusta, Sicily	29.97	761.2	63	17.2	78	e.			1		4							d. clouds.
H. M. S. Bacchante, Jaffa, Palestine	29.87	758.7	62	16.7	83	ssw.			2		3	calm						misty.
H. M. S. Cleopatra, N. 9° 46′, E. 61° 47′	29.80	756.9	82.5	28.1	83	ene.			2		3	ne.				1	ne.	d. clouds.
H. M. S. Comus, N 7° 21′ E. 134° 34′	29.89	759.2	82	27.8	91	ene.			2		3	ne.						d. clouds.
H. M. S. Daring, N. 21° 50′ E. 115° 17′	30.13	765.3	63	17.2		ne.			5–6		10					4	ne.	drizzling.
H. M. S. Diamond, S. 38° 42′, E. 127° 34′	30.14	765.5	60	15.6	87	ene.			3–4		7	ne.				1	ene.	d. clouds.
H. M. S. Dido, N. 17° 00′, W. 61° 45′	30.10	764.5	78	25.6		ne.			2		3	ne.						d. clouds.
H. M. S. Dryad, N. 23° 43′, E. 58° 16′	29.73	755.1				calm			0		9	s.						thnd'r storm.
H. M. S. Eclipse, S 15° 42′, E. 46° 38′			85	29.4	100	calm			0		3							d. clouds.
H. M. S. Espiegle, S. 35° 57′, E. 118° 28′	29.71	754.6	66	18.9	84	ne.			3–4		10					4	ene.	raining
H. M. S. Fawn, N. 15° 22′ E. 42° 10′	29.82	757.4	79.3	26.3	76	wnw.			3		1					3	wnw.	misty.
H. M. S. Gannet, S. 33° 01′, W. 71° 37′	30.06	763.5	57.5	14.2	69	calm			c		4							d. clouds.
H. M. S. Garnet, Montevideo, Uruguay	29.97	761.2	60	15.6	88	s.			4		4							d. clouds.
H. M. S. Inconstant, S. 28° 45′, E. 43° 30′	30.13	765.3	72	22.2	95	ese.			2–3		1	nnw.				4	se.	d. clouds.
H. M. S. Iron Duke, N. 22° 16′ E. 114° 10′	30.11	764.8	59	15.0	94	ene.			1		8	e.						d. clouds.
H. M. S. Lark, S. 10° 51′, E. 162° 26′	29.91	759.7	80.3	26.8		calm			0		3							d. clouds.
H. M. S. Liffey, Coquimbo, Chili	30.01	762.2	60	15.6		calm			0		8							d. clouds.
H. M. S. Malabar, Bombay, India	29.76	755.9	85	29.4	87	nw.			1		4	nw.						d. clouds.
H. M. S. Nelson, Sydney, N. S. W.	29.81	757.2	62	16.7	78	wsw.			3		8	e.						squally.
H. M. S. Northampton, Bermuda, W. I.	30.19	766.8	67	19.4	90	w.			2		9	w.						d. clouds.
H. M. S. Pegasus, N. 21° 56′, E. 113° 54′	30.04	763.0	62	16.7	88	e.			2–3		7	e.				3	e.	d. clouds.
H. M. S. Rambler, St. Paul de Loando, Benguela	29.85	758.2	81	27.2	95	wsw.			2		1							blue sky.
H. M. S. Rocket, Esquimalt, Vancouver Id., B. C.	29.87	758.7	42	5.6		wsw.			5		7	ssw.						squally.
H. M. S. Serapis, N. 13° 00′ E. 45° 30′	29.86	758.4	84	28.9	75	se.			1		2	e.						misty.
H. M. S. Superb, N. 36° 23′, E. 15° 33′*	30.00	762.0	67	19.4	64	calm			0		1	calm				1	ese.	blue sky.
H. M. S. Tenedos, N. 26° 18′ W. 69° 44′	30.24	768.1	72	22.2	75	ne.			2		4					3	ne.	d. clouds.
H. M. S. Thalia, S. 34° 35′, E. 12° 32′	30.16	766.1	64	17.8	83	sse.			5		8					6	se.	d. clouds.
H. M. S. Triumph, Valparaiso, Chili	30.06	763.5	59	15.0	64	sw.			1		2	calm						d. clouds.
H. M. S. Tyne, N. 6° 18′, E. 93° 46′	29.84	757.9	84	28.9	81	nne.			1–2		2	calm				2	s.	d. clouds.
H. M. S. Woodlark, N. 19° 15′, E. 70° 50′	29.82	757.4	81.5	27.5	74	wnw.			3–4		0					4	nw.	misty.
Portuguese Naval.																		
Rio Lima, Porto Praya, Cape Verd Islands	30.00	762.1	77.0	25.0	62	nne.			2		1					1		blue sky.
Tamega, Macao, China	30.20	767.1	59.0	15.0	78	nne.			4		10					3	nne.	overcast.
United States Naval.																		
Navy Yard, Pensacola, Fla.	30.07	763.8	72	22.2	90	e.	8	3.6			2		se.	0	0			fair.
N. Yard, Portsmouth, N. H.	30.62	777.7	34	1.1	79	n.	4	1.8			0			0	0			clear.
Naval Hospital, Yokohama, Japan	29.99	761.7	46.5	8.1	62	calm			0		0			light	light			clear.
Adams, Panama. Panama	29.75	755.6	76	24.4	86	nw.			2–3		10?			0	0	sm'h		clear ?
Alaska, S. 15° 40′, W. 75° 00′	29.97	761.2	67	19.4	89	calm			0		2			0	0	long		fair.
Alert, N. 32° 55′, E. 129° 36′*	30.15	765.8	54	12.2	61	n.			3		0			0	0	sm'h		clear.
Alliance, N. 11° 37′, W. 79° 32′.	29.93	760.2	79	26.1	82	ne.			3		2		ne.	light	light	sm'h		clear.
Ashuelot, Nagasaki, Japan	30.28	769.1	51	10.6	65	n.			2		0							clear.
Brooklyn, Montevideo, Uruguay	29.94	760.5	61	16.1	82	sw.	15	6.7			5		sw.	0.02	0.5	mod.	ssw.	fair.
Colorado, New York, N. Y.	30.32	770.1	38	3.3	72	ne.	6	2.7			10		calm	0.06	1.5			overcast.
Enterprise, Curacoa, W. I*	30.01	762.2	78	25.6	78	ene.			2–3		2		e.					clear.
Essex, N. 1° 30′, W. 7° 41′	29.95	760.7	82	27.8	75	sse.			1		2					sm'h	s.	clear.
Franklin, Norfolk, Va.	30.41	772.4	48	8.9	?	ene.	6	2.7			10		calm	0.01	0.3			cloudy.
Galena, N. 38° 29′ E. 11° 57′	29.97	761.2	63	17.2	89	ne.			1		10					sm'h		cloudy.
Independence, Mare Island, Cal.	30.02	762.5	45	7.2	76	wnw.			5		0			0.17	4.3			clear.
Kearsarge, St. Thomas, W. I.	30.11	764.8	75	23.9	68	ne.			4		5		ne.			long	ne.	fair.
Lackawana, Callao, Peru*	29.89	759.2	65	18.3	94	calm			0		10		se.					cloudy.
Lancaster, Leghorn, Italy*	30.02	762.5	64	17.8	48	ene.			5		0			0	0			clear.
Marion, S. 33° 54′, E. 18° 24′	29.98	761.5	63	17.2	100	calm			0		10		calm	h'vy	h'vy	sm'h	s.	rain & fog.
Michigan, Erie, Pa.	30.10	764.5	40	4.4	100	ne.			4		10		ne.					cloudy.
Minnesota, Newport, R. I.	29.58	751.3	37	2.8	81	ene.	2	0.9			2							fair.
Monocacy, Kobe, Japan	30.29	769.4	52	11.1	73	calm			0		0							clear.
New Hampshire, Newport, R. I.	30.54	775.7	33	0.6	80	e.			3		0			0	0	sm'h		clear.
Nipsic, Barcelona, Spain	29.93	760.2	58	14.4	82	ene.			5		10		ene.			sm'h		overcast.
Onward, Callao, Peru†	30.10	764.5	65	18.3	94	se.			2		10		n.			long	w.	cloudy.
Palos, Kobe, Japan	30.28	769.1	48	8.9	92	calm			0		2		calm					clear.
Passaic, Washington, D. C.	30.43	772.9	43	6.1	92	ne.			3		10		calm					misty.
Pensacola, Callao, Peru	30.02	762.5	63	17.2	100	se.	1	0.4			10			0	0	sm'h		misty.
Powhatan, Santa Ana Curacoa, W. I.	30.02	762.5	77	25.0	77	ene.			3		2		e.					fair.
Portsmouth, N. 37° 00′, W. 75° 20′	30.35	770.9	45	7.2	100	ene.			5		10					long	e.	misty.
Quinnebaug, N. 41° 56′, E. 10° 57′	29.99	761.7	60	15.6	71	nne.			2		2		calm	0	0	sm'h		clear.
Ranger, Acapulco, Mexico*	29.87	758.7	78	25.6	78	calm			0		0			0	0	sm'h		clear.
Richmond, Kobe, Japan*	30.21	767.3	53	11.7	45	calm			0		1		calm	0	0			fair.
Shenandoah, Cartagena, U. S. C.	29.98	761.5	76	24.4	91	ne.			1		8		n;e.			sm'h		cloudy.
St. Louis, League Island, Pa.	30.51	774.9	41	5.0	82	ene.	12	5.4			10		ne.	0.05	1.3			cloudy.
Swatara, Kobe, Japan*	30.08	764.0	56	13.3	45	nne.			1		0					sm'h		clear.
Tennessee, Port Royal, S. C.	30.28	769.1	66	18.9	100	e.	4	1.8			2							fair.
Vandalia, Port Royal, S. C.	30.40	772.1	65	18.3	94	e.			1		5		calm					fair.
Wabash, Boston, Mass.	30.59	777.0	35	1.7	70	nne.			3		2		ne.	0	0			clear.
Wachusetts, Sitka, Alaska	29.77	756.1	33	0.6	100	e.			1		10		calm					overcast.
Wyoming, Port Royal, S. C.	30.25	768.3	66	18.9	84	ne.	5	2.2			5		calm	0	0			fair.
Yantic, Key West, Fla.	30.07	763.8	77	25.0	91	ese.			2		2		se.					fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Circassian, N. 43° 30′, W. 51° 00′	30.31	769.9	19	−7.2	.....	nw.	.....	.....	6	.....	10	.....	nw.	1 h'r	1 h'r	3	wnw.	snowing.
S. S. Polynesian, N. 49° 26′, W. 35° 11′*	29.50	749.3	50	10.0	.....	ssw.	.....	.....	5	.....	9	.....	s.	0	0	r'gh	sw.	cloudy.
S. S. Scandinavian, N. 51° 51′, W. 26° 06′*	29.90	759.4	51	10.6	.....	sse.	.....	.....	6	.....	10	.....	sse.	20 h'r	20 h'r	mod.	sse	raining.
S. S. Waldensian, N. 42° 37′, W. 59° 50′ *	30.48	774.2	24	−4.4	.....	nw.	.....	.....	5	.....	5?	.....	nw.	0	0	light	nw.	clear?
AMERICAN STEAMSHIP COMPANY.																		
S. S. British Crown, N. 40° 50′, W. 46° 56′†	30.04	763.0	43	6.1	.....	nw.	.....	.....	5	.....	6	.....	nw.	1 h'r	1 h'r	mod.	nw.	cloudy.
S. S. Illinois, Philadelphia, Pa.	30.10	764.5	43	6.1	91	ese.	.....	.....	3	.....	10	.....	ese.	.....	.....	.....	.....	overcast.
S. S. Indiana, St. George's Channel, England†	30.45	773.4	50	10.0	64	nne.	.....	.....	1	.....	8?	.....	ne.	light	light	.....	.....	clear?
S. S. Ohio, Philadelphia, Penn†	30.39	771.9	40	4.4	100	ene.	.....	.....	4	.....	10	.....	e.	.....	.....	.....	.....	misty.
ANCHOR LINE.																		
S. S. Ethiopia, N. 41° 04′, W. 58° 54′	30.30	769.6	29	−1.7	100	nnw.	.....	.....	4	.....	7	.....	nw.	4 h'r	4 h'r	mod.	nnw.	cloudy.
S. S. Galatia, London, England.†	30.37	771.4	.....	.....	.....	ne.	.....	.....	3	.....	6	.....	ese.	0	0	.....	.....	cloudy.
S. S. India, N. 37° 45′, W. 9° 20′ *	29.93	760.2	59	15.0	88	nnw.	.....	.....	4	.....	0	.....	.....	.....	.....	.....	.....	clear.
ATLAS LINE.																		
S. S. Ailsa, N. 36° 33′, W. 74° 50′ †	30.30	769.6	50	10.0	93	ne.	.....	.....	3	.....	10	.....	.....	2 h'r	2 h'r	mod.	nne.	hazy.
S. S. Alvo, Off Navassa I'd, W. I.	30.10	764.5	.....	.....	.....	se.	.....	.....	3	.....	4	.....	se.	0	0	mod.	se.	fair.
S. S. Arden, N. 10° 40′ W 71° 38′	.....	.....	.....	.....	.....	ne.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	fine.
S. S. Athos, Arroyo, Porto Rico, W. I.	29.72	754.9	.....	.....	.....	ene.	.....	.....	4	.....	8	.....	ene.	¼ h'r	¼ h'r	r'gh	e.	cloudy.
BOSTON AND HALIFAX LINE.																		
S. S. Carroll, N. 42° 26′, W. 63° 33′†	30.53	775.4	22	−5.6	?	nnw.	.....	.....	3	.....	.....	.....	.....	0	0	.....	.....	clear.
BRITISH METEOROLOGICAL OFFICE.																		
Bk. Arran, N 0° 30′, W. 22° 52′	29.94	760.5	83.5	28.6	68	ene.	.....	.....	3	.....	3	.....	.....	.....	.....	.....	.....	d. clouds.
S. Baroda, S. 3° 15′, E. 8° 49′	29.83	757.7	81.5	27.5	89	ne.	.....	.....	2	.....	6	.....	.....	.....	.....	.....	.....	raining.
British Merchant, S. 1° 11′, E. 85° 42′	29.84	757.9	82.7	28.2	89	n.	.....	.....	1	.....	3	.....	.....	.....	.....	.....	.....	d. clouds.
Bk. Caldew, N. 45° 55′, W. 19° 51′	30.34	770.6	55.6	13.1	.....	ese.	.....	.....	4	.....	4	.....	.....	.....	.....	.....	.....	d. clouds.
S. S. Clpero, Plymouth Sound, England	30.25	768.3	52.3	11.3	76	wsw.	.....	.....	2	.....	4	.....	.....	.....	.....	.....	.....	misty.
Bk. Commewyne, N. 50° 27′. W. 21° 44′	30.21	767.3	55.5	13.1	78	se.	.....	.....	5	.....	8	.....	.....	.....	.....	.....	.....	d. clouds.
Bk. Corona, N. 0° 59′, W. 28° 53′	29.95	760.7	83	28.3	83	no.	.....	.....	3	.....	3	.....	.....	.....	.....	.....	.....	d. clouds.
S. S. Gordon Castle, N. 13° 30′ E. 109° 56′	29.96	761.0	79	26.1	86	n.	.....	.....	6	.....	10	.....	.....	.....	.....	.....	.....	showery.
S. S. Hermine, N. 3° 54′, W. 29° 21′	30.04	763.0	80	26.7	87	nne.	.....	.....	4	.....	6	.....	.....	.....	.....	.....	.....	d. clouds.
S. S. Rosetta, N. 36° 01′, W. 5° 30′	29.93	760.2	58	14.4	76	w.	.....	.....	3	.....	4	.....	.....	.....	.....	.....	.....	d. clouds.
CROMWELL LINE.																		
S. S. Hudson, N. 24° 21′, W. 83° 00′†	30.28	769.1	72	22.2	.....	ene.	.....	.....	3	.....	1	.....	ene.	0	0	mod.	se.	clear.
CUNARD LINE.																		
S. S. Bothnia, N 40° 28′, W. 68° 02′	30.52	775.2	.....	.....	.....	ene.	.....	.....	6	.....	2?	.....	ene.	0	0	mod.	ne.	cloudy?
S. S. Scythia, N. 47° 25′, W. 36° 49′	.....	.....	52	11.1	93	ssw.	.....	.....	6	.....	10	.....	ssw.	5 h'r	5 h'r	r'gh	wsw.	overcast.
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. Canada, N. 40° 29′, W. 70° 30′	30.53	775.5	32.0	0.0	.....	nne.	.....	.....	3	.....	0	.....	.....	0	0	sm'h	.....	clear.
S. S. France, N. 48° 26′, W. 22° 06′†	30.20	768.7	53.6	12.0	.....	s.	.....	.....	3	.....	.....	.....	sse.	0	0	mod.	sse.	clear.
GUION LINE.																		
S. S. Arizona, N. 40° 56′, W. 62° 14′	30.44	773.2	33	0.6	.....	n.	.....	.....	4	.....	8	.....	nne.	0	0	mod.	ne.	fine.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Lessing, N. 40° 41′ W. 70° 52′	30.49	774.4	38	3.3	.....	ne.	.....	.....	4	.....	0	.....	.....	0	0	sm'h	ne.	clear.
S. S. Silesia, N. 49° 18′, W. 20° 00*†	30.33	770.4	50	10.0	.....	s.	.....	.....	6	.....	2	.....	sw.	0	0	4	sw.	fair.
S. S. Wieland, N. 48° 10′, W. 30° 46′	29.90	759.4	56	13.3	.....	n.	.....	.....	2	.....	10	.....	se.	0	0	4	se.	hazy.
MALLORY LINE.																		
S. S. Colorado, Key West, Florida.†	30.08	764.0	75	23.9	.....	e.	.....	.....	4	.....	1	.....	e.	0	0	.....	.....	clear.
MERCHANTS' EXPRESS LINE.																		
S. S. Hermod, N. 49° 20′, W. 36° 10′*†	29.30	744.2	50	10.0	.....	sw.	.....	.....	8	.....	10	.....	sw.	0	0	cross	sw.	threatening.
NATIONAL LINE.																		
S. S. Canada, N. 40° 18′, W. 68° 58′†	30.49	774.4	36	2.2	.....	ene.	.....	.....	4	.....	1	.....	ne.	0	0	long	ne.	clear.
S. S. Erin, N. 50° 03′, W. 1° 10′..	30.17	766.3	45	7.2	.....	nne.	.....	.....	2	.....	0	.....	.....	0	0	sm'h	.....	fine.
S. S. Holland, N. 42° 27′ W. 48° 36..	29.99	761.7	30	−1.1	.....	nnw.	.....	.....	5	.....	8	.....	nw.	3 h'r	3 h'r	mod.	nw.	fair.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Niagara, N. 23° 26′, W. 81° 32′†	30.16	766.1	76	24.4	.....	ese.	.....	.....	3	.....	3	.....	s.	0	0	sm'h	.....	clear.
S. S. Santiago, Cienfuegos, Cuba, W. I.†	30.12	765.0	82	27.8	.....	calm	.....	.....	0	.....	1	.....	.....	0	0	.....	.....	fine.
NEW YORK, HAVANA AND MEXICAN MAIL.																		
S. S City of Alexandria, Vera Cruz, Mexico*†	30.00	762.0	78	25.6	.....	sse.	.....	.....	3	.....	4	.....	s.	0	0	.....	.....	fair.
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Alvena, N. 34° 24′, W. 74° 23′†	30.23	767.8	68	20.0	.....	se.	.....	.....	3	.....	.....	.....	.....	.....	.....	.....	nw.	cloudy.
S. S. Atlas, N. 16° 26′, W. 75° 02′*†	30.13	765.3	80	26.7	.....	ne.	.....	.....	3	.....	.....	.....	.....	.....	.....	.....	sw.	clear.
S. S. City of Washington, N. 23° 10′, W. 82° 26′*†	30.15	765.8	78	25.6	.....	e.	.....	.....	3	.....	.....	.....	.....	.....	.....	sm'h	.....	fine.
S. S. Lepanto, N. 43° 40′ W. 43° 30′*	29.86	758.4	32	0.0	.....	nw.	.....	.....	6	.....	.....	.....	.....	.....	.....	.....	wnw.	
S. S. P. C. Cnland, N. 48° 44′, W. 26° 00′	30.01	762.2	55.4	13.0	.....	sse.	.....	.....	6	.....	.....	.....	.....	.....	.....	5	s.	cloudy.
NORTH GERMAN LLOYD.																		
S. S. Graf Bismarck, N. 42° 25′, W. 9° 38′	30.15	765.8	57.2	14.0	.....	ne.	.....	.....	5	.....	6	.....	ne.	0	0	mod.	ne.	hazy.
S. S. Hermann, N. 51° 38′, E. 2° 41′†	30.12	765.0	50.0	10.0	.....	ene.	.....	.....	5	.....	0	.....	.....	0	0	cross	ene.	fair.
S. S. Hohenzollern, N. 2° 22′, W. 30° 07′*	29.91	759.7	72.1	22.3	.....	nne.	.....	.....	4	.....	5?	.....	ne.	rain	rain	sm'h	nne.	clear.?
S. S. Kronprinz F. Wilhelm, N. 49° 41′ W 8° 10′	30.30	769.6	50.0	10.0	.....	ene.	.....	.....	3	.....	9	.....	e.	0	0	3	e.	overcast.
S. S. Main, N 41° 25′, W. 59° 53′	30.24	768.1	33.8	1.0	.....	nw.	.....	.....	3–5	.....	8	.....	n.	0	0	mod.	n.	
S. S. Ohio, N. 34° 56′, W. 62° 01′	30.20	767.1	.....	.....	.....	nne.	.....	.....	5	.....	8	.....	n.	8 h'r	8 h'r	long	nne.	cloudy.
S. S. Rhein, N. 46° 10′, W. 35° 25′	29.64	752.8	.....	.....	.....	sw.	.....	.....	8	.....	9	.....	wsw.	rain	rain	high	sw.	cloudy.
S. S. Salier, N. 51° 53′. E. 2° 25′	30.30	769.6	50.0	10.0	.....	e.	.....	.....	5	.....	1	.....	e.	0	0	mod.	s.	clear.
S. S. Strassburg, N. 47° 06′, W. 35° 04′	29.71	754.6	53.0	11.7	86	nw.	.....	.....	5–6	.....	10	.....	.....	4 h'r	4 h'r	r'gh	sw.	cloudy.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Belgic N. 39° 39′ W. 131° 30′†	30.39	771.9	50	10.0	79	nw.	.....	.....	3	.....	5	.....	wnw.	0	0	mod.	wnw.	fair.
S. S. Oceanic, N. 35° 20′ E. 151° 00′*	30.06	763.5	57	13.9	87	n.	.....	.....	5	.....	7	.....	ne.	.....	.....	3	wsw.	cloudy.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, New York, N. Y.†	30.37	771.4	.....	.....	.....	ese.	.....	.....	1	.....	10	.....	.....	rain	rain	.....	.....	rainy.
S. S. Seminole, Boston, Mass†	30.47	773.9	46	7.8	69	ese.	.....	.....	5	.....	5	.....	se.	0	0	.....	.....	fair.
OREGON IMPROVEMENT COMPANY.																		
S. S. Mississippi, Seattle, Wash. Ter.†	30.10	764.5	46	7.8	77	ese.	.....	.....	2	.....	10	.....	s.	.....	.....	.....	.....	cloudy.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. City of Chester, Departure Bay, Alaska *†	29.96	761.0	53	11.7	80	w.	.....	.....	1	.....	1	.....	se.	.....	.....	sm'h	.....	clear.
S. S. Oregon, N. 44° 43′, W. 124° 14′†	30.17	766.3	44	6.7	68	wnw.	.....	.....	5	.....	5	.....	wnw.	.....	.....	mod.	wnw.	squally.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, N. 35° 39′, W. 121° 20′†	30.16	766.1	49	9.4	71	nw.	.....	.....	4	.....	2	.....	nw.	.....	.....	r'gh	wnw.	fair.
S. S. Idaho, Tacoma, Wash. Ter.†	30.18	766.6	36	2.2	100	n.	.....	.....	2	.....	10	.....	se.	.....	.....	.....	.....	raining.
S. S. State of California, San Francisco, Cal.†	30.15	765.8	45	7.2	68	nnw.	.....	.....	4	.....	0	.....	.....	.....	.....	.....	.....	clear.
S. S. Victoria, San Francisco, Cal.†	30.21	767.3	45	7.2	61	nw.	.....	.....	5	.....	0	.....	.....	0	0	.....	.....	clear.
PACIFIC MAIL STEAMSHIP CO.																		
S. S. Australia, Sydney, N. S. W.	29.84	757.9	61	16.1	88	sw.	.....	.....	2	.....	5?	.....	sw.	.....	.....	.....	.....	cloudy?
S. S. City of New York, S. 34° 02′, E. 164° 50′†	29.78	756.4	70	21.1	100	wnw.	.....	.....	4	.....	10	.....	nw.	h'vy	h'vy	mod.	nw.	cloudy.
S. S. City of Pekin, Panama, Panama†	29.93	760.2	73	22.8	90	nw.	.....	.....	3	.....	10	.....	nw.	.....	.....	sm'h	.....	overcast.
S. S. City of Rio de Janeiro, N. 34° 20′, W. 121° 35′*†	30.31	769.9	52	11.1	66	nw.	.....	.....	0	.....	10	.....	nw.	.....	.....	r'gh	nw.	cloudy.
S. S. City of Sydney, N. 4° 09′, W. 164° 31′†	29.95	760.7	78	25.6	82	ene.	.....	.....	3	.....	8	.....	ne.	0	0	h'vy	nne.	cloudy.
S. S. Colon, N. 16° 47′, W. 75° 09′†	30.07	763.8	80	26.7	.....	e.	.....	.....	4	.....	1	.....	ese.	0	0	sm'h	ene.	clear.
S. S. South Carolina, N. 12° 04′, W. 87° 56′†	30.01	762.2	80	26.7	82	n.	.....	.....	2	.....	2	.....	n.	0	0	mod.	sw.	fair.
QUEBEC STEAMSHIP COMPANY.																		
S. S. Muriel, Antigua, W. I.	30.10	764.5	75	23.9	.....	ene.	.....	.....	2	.....	0	.....	.....	0	0	sm'h	.....	fair.
RED STAR LINE.																		
S. S. Belgenland, Antwerp, Belgium†	30.29	769.4	58	14.4	88	e.	.....	.....	3	.....	3	.....	e.	0	0	.....	.....	clear.
S. S. Nederland, N. 47° 46′. W. 27° 25′*†	30.49	774.4	56	13.3	.....	s.	.....	.....	5	.....	10	.....	.....	0	0	cross	sw.	misty.
S. S. Rhyniand, Antwerp, Belgium	30.32	770.1	60	15.6	71	se.	.....	.....	4	.....	0	.....	.....	0	0	.....	.....	clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
RED STAR LINE—Continued.																		
S. S. Vaderland, N. 40° 44′, W. 48° 09′	29.92	760,0	34	1.1	71	nnw.			5		10		wnw.	6 h'r	6 h'r	long	wnw.	cloudy.
S. S. Waesland, N. 40° 11′, W. 61° 13′	30.36	771.1	33	0.6		n.			5		10		w.	0	0	mod.	nnw.	cloudy.
ROTTERDAM LINE.																		
S. S. Schiedam, N. 44° 28′, W. 44° 20′*	29.83	757.7	42.6	5.9	88	wnw.			6		8		nw.	7 h'r	7 h'r	high	wsw.	hailing.
THINGVALLA LINE.																		
S. S. Thingvalla, Copenhagen, Denmark†	30.55	776.0	50.9	10.5		ese.			1		2		ese.	0	0			clear.
WARREN LINE.																		
S. S. Iowa, N. 42° 27′, W. 70° 35′*†	30.62	777.7	29	— 1.7		ne.			3		2			0	0	sm'h		clear.
WHITE STAR LINE.																		
S. S. Adriatic, New York, N. Y †	30.47	773.9	38	3.3		e.			3		8		ene.	0	0	sm'h		misty.
S. S. Britannic, N. 45° 41′, W. 38° 25′†	29.67	753.6	50	10.0		sw.			6		10		sw.	6 h'r	6 h'r	mod	sw.	raining.
S. S. Celtic, Liverpool, England†	30.30	769.6	51	10.6		ne.			3		5		ene.	6 h'r	6 h'r			fair.
S. S. Germanic, N. 42° 24′, W. 52° 30′†	30.11	764.8	30	—1.1		n.			4		6		nw.	sh'rs	shr's	mod.	nw.	cloudy.
WILSON LINE.																		
S. S. Otranto,, N. 50° 05′, W. 7° 40′†	30.34	770.6	58	14.4		ene.			2		10		ene.	0	0	sm'h	ene.	cloudy.
S. S. Romano, N. 49° 00′ W. 13° 43′*†	30.18	766.6	55	12.8										0	0	sm'h		clear.
WINSOR LINE.																		
S. S. Catherine Whiting, Off Barnegat, N. J.†	30.50	774.7				ene.			6				ne.	0	0	short	ene.	
MISCELLANEOUS.																		
Sch. Addie Fuller, N. 24° 10′ W. 83° 08′†	30.22	767.6	75.5	24.2	93	e.			3	0	0			0	0	sm'h		clear.
Bk. Adelaide, Rio de Janeiro, Brazil*†	30.10	764.5	82	27.8		nne.							ne.					
Schr. Ajax, N. 27° 41′, W. 91° 41′†	30.06	763.5				ese.			3		2		se.	0	0	sm'h	ese.	fair.
Bk. Alpha, N. 31° 30′, W. 67° 25′†	30.21	767 3	68	20.0		w.			4		3		wnw.	0	0	sm'h		fair.
Bk. Antioch, S. 26° 52′, W. 33° 45′*†	30.00	762.0	80	26.7		e.			3		1		se.	0	0	sm'h	e.	clear.
Schr. Asa Eldridge, Charlotte Harbor,†	30.22	767.6				ne.			3		5		ne.	3 h'r	3 h'r			hazy.
Bk. Aureola, N. 26° 25′, W. 36° 58′*†	30.23	767.8	70	21.1		nnw.			3		1		nnw.	½h'r	½h'r	h'vy	nnw.	clear.
Schr. Annie M. Smull, S. 37° 50′, E. 4° 30′*†	30.30	769.6	58	14.4		s.							s.	0	0	long	sw.	clear.
Bk. Bergenseren, N. 36° 03′ W. 7° 55′†	29.95	760.7				nw.			3		hz		nnw.	0	0	3	nw.	hazy.
Carrie Heckle, N. 36° 04′, W. 74° 30′						nne.			4		10		ne.	0	0	sm'h	nne.	dense haze.
Bk. Celestina, S. 14° 18′, W. 34° 00′*†	29.94	760.5				ese.			3		3		se.	0	0	long	ssw.	fine.
Bk. Champion, N. 38° 00′, W. 63° 53′†	30.24	768.1				n.			5		10		ne.	0	0	hv'y	nne.	
Bk. E. L. Pettingill, N. 6° 03′, W. 118° 02′†	29.90	759.4				nne.			3		5		ne.	0	0	mod.	ne.	hazy.
S. Enoch Train, N. 49° 42′ W. 16° 00′*	30.22	767.6.				calm			0					0	0	light	nw.	fine.
S. Exporter, N. 30° 40′, W. 32° 10′*†	30.00	762.0				s.			6		1		nw.	12 h'r	12 h'r	long	nw.	fine.
S. Festina Lente, N. 52° 42′, W. 34° 30′*	29.72	754.9	46	7.8		s.			6		1		s.	0	0	long	wsw.	clear.
U.S.F.C.S.S.Fish Hawk, Washington, D. C.†	30.48	774.2	48	8.9	85	e.			3		10		calm.	0	0			cloudy.
S. Grecian, S. 28° 28′ W. 35° 30′*†	30.08	764.0	73	22.8		e.			3		0			0	0	long	se.	clear.
Bk. Freya, N. 36° 08′ W. 74° 16′			68	20.0		e.			6		8		e.	2 h'r	2 h'r	mod.	nnw.	cloudy.
Bk. Granville, S. 36° 39′, E. 2° 10′*†	30.36	771.1				sse.			3				s.	light	light	sm'h		cloudy.
Schr. Hattie G. McFarland, N. 33° 24′, W. 77° 47′*†	30.32	770.1	71	21.7		ne.			1		5		ne.	0	0	long	e.	fair.
Schr. Henry Denison, Port Antonio, Jamaica†	30.02	762.5				ene.			4		3		se.	rain	rain			fair.
S. Hedwig, N. 51° 44′, W. 30° 47′	29.83	757.6	48.6	9.2		se.			1		7		se.	2 h'r	2 h'r	4	sw.	fine.
Schr. John L. Thomas, N. 31° 28, W. 71° 24′*†	30.40	772.1				se.					0			0	0	con.		fine.
Bg. John Wesley, Sagua La Grande, Cuba, W. I.†	30.02	762.5	77	25.0		ese.			5		2			0	0			clear.
Bk. Jona, N. 36° 36°, W. 67° 00′*†	30.55	776.0				nne.			4		10		ene.	4 h'r	4 h'r	cross	var.	cloudy.
Bkt. Josephine, As inwall, Panama*†	30.06	763.5	82	27.8	67	nnw.			3		2		ne.	0	0			fair.
S. Lake Erie, New York, N. Y.*†	30.45	773.4				e.			6		10		e.	0	0	sli't	e.	overcast.
Bk. Liberia, N. 32° 45′, W. 33° 11′*†	29.70	754.4	66	18.9	69	sw.			7		2		sw.	5 h'r	5 h'r			
Light House Tender, Laurel, Key West, Fla.†	30.13	765.3	73	22.8		ene.			2		3		e.	1 h'r	1 h'r	sm'h		fair.
S. S. Malabar, Cardiff, Eng.*†	30.37	771.4				ne			4				e.	0	0			cloudy.
Bg. Medina, N. 23° 50′. W. 79° 20′†	30.19	766.8				e.			2		8		ese.			sm'h		showery.
S. S. Nebo, S. 16° 17′, W 37° 31′*†	29.89	759.2				se.			1		2		se.	0	0	long	s.	clear.
Bk. Peppina, N. 43° 17′, W. 11° 38′*†	30.14	765.5	56	13.3	80	ene.			6		8		se.			r'gh	ne.	cloudy.
Bk Pilgrim, S. 33° 03′. E. 152° 00′*†	29.70	754 4				wsw.			6		5		w.			cross	var.	raining.
Bg. Potomac, N. 7° 59′, W. 58° 06′*†	29.85	758.2				ne.			1				ne.			sm'h		fine.
S. S. Radnorshire, N. 39° 57′, W. 54° 30′*†	30.05	763 3				n.			6		8		nne.	2 h'r	2 h'r	cross		
S. Salisbury, N. 28° 05′ W. 41° 06′*.	30.11	764.9	63.0	17.2	76	nnw.			4-5		6		n.	½ hr	½ hr	r'gh	nnw.	fair.
Bkt. Spotless, N. 6° 20′, W. 28° 24′*†	29.90	759.4				ne.							sw.			mod.	e.	cloudy.
Bk. Stella, S. 58° 48′, W. 63° 00′*	29.00	736.6	32.0	0.0	100	se.			4		4		s.	hail	hail	mod.	sw.	hailing.
S. S. Victoria J Peed, N. 12° 22′ W. 74° 02′*†	29.12	739.6				ese.			6		4					long		
S. Wm. Woodbury, N. 50° 49′, W. 26° 22′*†	29.65	753.1	54	12.2		s.			6				s.			mod.	sw.	cloudy.

International Chart I. April 6, 1882. Isobars and Isotherms.



UNITED STATES OF AMERICA.

Signal Service U.S. Army

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON APRIL 7, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours	.....	.....	29.86	758.5	62.6	17.0	76	nw.	.....	.....	3	.....	4	.....	.....	0	0	cloudy	Moiroud.
Algiers	.....	.....	29.83	757.7	60.8	16.0	66	ne.	.....	.....	3	.....	10	.....	.....	0.047	1.2	covered	Nicolas.
La Calle	.....	.....	29.83	757.6	60.4	15.8	81	wsw.	.....	.....	3	.....	5	.....	.....	0.138	3.5	cloudy	Fonfréde.
Tunis	.....	.....	29.85	758.1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	29.93	760.2	64.2	17.9	28	n.	.....	.....	1	.....	3	.....	.....	0	0	pretty fair	Dumas.
Tebessa	.....	.....	29.88	758.9	51.4	10.8	93	se.	.....	.....	4	.....	4	.....	.....	0	0	cloudy	Derché.
Geriville	.....	.....	.....	.....	58.3	14.6	17	w.	.....	.....	1	.....	1	.....	.....	0	0	very fair	Lonchamp.
Laghouat	.....	.....	29.89	759.3	60.8	16.0	59	w.	.....	.....	1	.....	2	.....	.....	0	0	fair	Abraham.
Biskra	.....	.....	29.87	758.8	74.1	23.4	36	wnw.	.....	.....	1	.....	3	.....	.....	0	0	pretty fair	Malau.
Australian.																			
Melbourne, Victoria	30.12	765.0	30.21	767.3	53.6	12.0	72	se.	5	2.2	.....	.....	10	.....	.....	0	0	dull	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.75	755.7	30.31	769.9	52.5	11.4	37	se.	.....	.....	3	.....	0	.....	.....	0	0	.....	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.47	748.5	30.25	768.4	50.4	10.2	26	n.	9.4	4.2	.....	.....	0	.....	.....	0	0	.....	Dr. Wierzbiski.
Eperies	29.26	743.3	30.15	765.8	51.8	11.0	28	nw.	.....	.....	2	3 cs	0	.....	.....	0	0	.....	Julius Mikolik.
Gratz	28.99	736.4	30.26	768.5	51.8	11.0	46	wsw.	.....	.....	2	.....	0	.....	.....	0	0	.....	Andreas Rospini.
Hermannstadt	28.68	728.4	30.14	765.6	46.8	8.2	32	nw.	.....	.....	4	.....	2	.....	.....	0	0	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.86	733.1	30.21	767.3	53.8	12.1	40	ene.	.....	.....	2	.....	0	.....	.....	0	0	clear	The Staff.
Lemberg	29.13	739.9	30.14	765.5	45.7	7.6	39	ne.	.....	.....	1	.....	8	.....	.....	0	0	.....	Dr. T. Stanecki.
Pola	30.14	765.5	30.25	768.4	53.4	11.9	39	wnw.	.....	.....	2	.....	0	.....	.....	0	0	.....	I. R. Hydrographic Office.
Szathmar	29.70	754.3	30.17	766.2	50.2	10.1	25	nw.	.....	.....	2	.....	1	.....	.....	0	0	.....	Joseph Midlinszky, S. J.
Szegedin	29.98	761.5	30.27	768.8	49.1	9.5	38	ne.	.....	.....	1	.....	0	.....	.....	0	0	.....	Karl Stancel.
Trieste	30.15	765.7	30.25	768.3	59.4	15.2	12	ne.	.....	.....	3	.....	0	.....	.....	0	0	.....	Rieder.
Vienna	29.56	750.8	30.28	769.2	53.1	11.7	27	ne.	.....	.....	1	.....	0	.....	.....	0	0	.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	30.51	774.9	30.61	777.5	44.0	6.7	76	ese.	5	2.2	.....	.....	0	.....	.....	0	0	blue sky	W. Boswell.
Armagh, Observatory	30.23	767.8	30.47	773.9	51.4	10.8	67	ene.	14	6.3	.....	.....	0	.....	.....	.....	.....	blue sky	S. Call.
Bidston, Liverpool Obs'y	.....	.....	30.39	771.9	55.6	13.1	53	ene.	28	12.5	.....	.....	0	.....	.....	.....	.....	misty	John Hartnup.
Bolton, Sharples	29.87	758.7	30.42	772.7	54.8	12.7	40	ene.	13	5.8	.....	.....	0	.....	.....	.....	.....	blue sky	Thomas Mackereth.
Bradford, Yorkshire	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	[A.S. J.McLandsborough, F.R
Bridgetown, Barbadoes	29.95	760.7	29.98	761.5	80.0	26.7	74	ne.	.....	.....	2	.....	6	.....	.....	0	0	.....	Corpl.J.Surgenor, A.H.C.
Cardington	.....	.....	30.31	769.9	58.0	14.4	46	e.	.....	.....	1.0	.....	0	.....	.....	.....	.....	gloomy	John McLaren.
Chatham, School M. E	30.17	766.3	30.31	769.9	52.1	11.2	69	ne.	.....	.....	3	.....	0	.....	.....	.....	.....	blue sky	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	30.02	762.5	30.25	768.3	52.9	11.6	66	e.	.....	.....	1	.....	0	.....	.....	.....	.....	misty	The Staff.
Fort Napier, Natal	27.65	702.3	29.87	758.7	64.0	17.8	89	e.	.....	.....	1	.....	0	.....	.....	.....	.....	foggy	Pvt. E. K. Annis, A.H.C.
Free Town, Sierra Leone	29.60	751.8	29.83	757.7	89.0	31.7	56	w.	.....	.....	1	.....	3	.....	.....	.....	.....	blue sky	Sergt. John Robinson.
Gibraltar, Mediterranean	29.89	759.2	29.94	760.5	65.5	18.6	78	w.	.....	.....	1	.....	9	.....	.....	.....	.....	blue sky	Opl. O. Baldwin.
Glasgow, Observatory	30.33	770.4	30.54	775.7	49.6	9.8	62	ene.	.....	.....	3	.....	0	.....	.....	.....	.....	gloomy	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	30.12	765.0	30.29	769.4	56.7	13.7	85	ene.	.....	.....	4	.....	0	.....	.....	.....	.....	misty	The Staff.
Guernsey	29.91	759.7	30.21	767.3	53.3	11.8	83	ne.	.....	.....	2	.....	0	.....	.....	.....	.....	blue sky	A. Collenette, F. M. S.
Kew, Observatory	30.26	768.6	30.30	769.6	54.9	12.7	38	ne.	28	12.5	.....	.....	0	.....	.....	.....	.....	misty	The Staff.
Leicester, Museum	30.11	764.8	30.36	771.1	56.2	13.4	56	ne.	.....	.....	2	.....	0	.....	.....	.....	.....	blue sky	J. C. Smith.
Malta, Mediterranean	29.80	756.9	29.88	758.9	61.0	16.1	94	e.	.....	.....	3	.....	9	.....	.....	.....	.....	blue sky	I. H. Whysall.
Nassau, Bahamas	30.19	766.8	30.23	767.8	75.5	24.2	70	se.	.....	.....	2	.....	5	.....	.....	.....	.....	overcast	C. S. Duncombe.
Oscott, St. Mary's College	29.83	757.7	30.36	771.1	57.0	13.9	48	ne.	.....	.....	2	.....	0	.....	.....	.....	.....	d. clouds	John Mac Email.
Oxford, Radcliffe Obs'y	30.08	764.0	30.31	769.9	56.6	13.7	50	ne.	.....	.....	4	.....	0	.....	.....	.....	.....	blue sky	The Staff.
Plymouth	30.15	765.8	30.22	767.6	57.1	13.9	55	ne.	.....	.....	3	.....	0	.....	.....	.....	.....	blue sky	John Merrifield.
Sandwick Manse, Orkneys	.....	.....	30.60	777.2	46.5	8.1	85	se.	15	6.7	.....	.....	0	.....	.....	.....	.....	blue sky	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	30.16	766.1	30.22	767.6	46.0	7.8	42	ne.	.....	.....	2	.....	7	.....	.....	blank	blank	d. clouds	W. H. Lyne.
Sheffield	30.16	766.1	30.44	773.2	54.9	12.7	43	ne.	.....	.....	1	.....	0	.....	.....	0	0	blue sky	W. F. Cooper.
Silloth Rectory	30.44	773.2	30.47	773.9	56.1	13.4	56	e.	.....	.....	4	.....	0	.....	.....	0	0	blue sky	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	30.44	773.2	54.7	12.6	40	e.	23	10.3	.....	.....	0	.....	.....	.....	.....	blue sky	Rev. S. J. Perry.
Stratfield Turgiss	30.06	763.5	30.28	769.1	58.4	14.7	46	ne.	.....	.....	3	.....	0	.....	.....	.....	.....	squally	Rev. C. H. Griffiths, F.M.S.
Truro, Royal Institution	30.21	767.3	30.24	768.1	63	17.2	52	ne.	.....	.....	2	.....	0	.....	.....	.....	.....	blue sky	W. Newcombe.
Valencia, Observatory	30.30	769.6	30.33	770.4	53.5	11.9	63	nne.	12	5.4	.....	.....	3	.....	.....	.....	.....	misty	The Met'g'l Office.
Canadian.																			
Bathurst, N. B	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.32	770.1	30.36	771.1	14	—10.0	100	s.	1	0.4	.....	0	8 s	.....	nw.	0	0	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	30.26	768.6	30.33	770.4	16	— 8.9	83	calm	0	0	.....	.....	10 s	.....	w.	0	0	cloudy	G. A. Blair.
Father Point, Quebec*	30.07	763.8	30.09	764.3	27	— 2.8	92	s.	18	8.0	.....	0	10 s	.....	calm	0	0	threatening	J. McWilliams.
Fort Garry, Manitoba*	29.32	744.7	30.19	766.8	26	— 3.3	88	n.	8	3.6	.....	.....	0	.....	.....	0	0	clear	James Stewart.
Halifax, N. S*	30.26	768.6	30.40	772.1	24	— 4.4	73	e.	4	1.8	.....	.....	10 ks	.....	.....	0	0	cloudy	A. Allison.
Kingston, Ontario*	29.52	749 8	29.86	758.4	41	5.0	82	s.	18	8.0	.....	.....	10 ks	.....	sw.	0.14	3.6	cloudy	A. P. Knight, M. A.
Montreal, Quebec*	29.68	753.9	29.89	759.2	34	1.1	92	s.	14	6.3	.....	.....	10 n	.....	.....	0.59	15.0	light rain	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.13	739.9	29.83	757.7	40	4.4	100	w.	8	3.6	.....	.....	10 n	.....	sw.	0.17	4.3	cloudy	Rev. R. Mosley.
Port Dover, Ontario	29.21	741.9	29.90	759.4	47	8.3	94	sw.	8	3.6	.....	.....	fg.	.....	.....	inap.	inap.	foggy	H. Morgan.
Port Stanley, Ontario	29.29	744.0	29.94	760.5	40	4.4	100	sw.	8	3.6	.....	.....	fg.	.....	.....	0.10	2.5	foggy	M. Payne.
Quebec, Quebec*	29.69	754.1	30.03	762.7	26	— 3.3	96	e.	.....	.....	5	.....	10 n	.....	e.	0.03	0.8	light rain	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.26	743 2	29.73	755.1	34	1.1	88	e.	6	2.7	.....	.....	fg.	.....	.....	0.32	8.1	dense fog	W. H. McIntyre.
Saugeen, Ontario*	29.16	740.7	29.89	759.2	42	5.6	96	w.	13	5.8	.....	.....	10 n	.....	w.	0.53	13.5	cloudy	
St. Andrews, N. B	30.25	768.3	30.30	769.6	31	— 0.6	86	sw.	7	3.1	.....	.....	10 n	.....	.....	0	0	cloudy	
Sydney, C. B*	30.29	769.4	30.36	771.1	18	— 7.8	67	w.	10	4.5	.....	5 c	0	nw.	.....	0	0	fair	T. C. Hill, C. E.
Toronto, Ontario*	29.48	748.8	29.86	758.4	46	7.8	93	sw.	3	1.3	.....	0	2 ks	.....	w.	0.14	3.6	light fog	Magnetic Observatory.
Yarmouth, N. S*	30.30	769.6	30.37	771.4	30	— 1.1	88	se.	4	1.8	.....	.....	10 k	.....	s.	0	0	cloudy	Lt. F. E. Wilmot, R. N.
Sub-series.																			
St. Johns, Newfoundland	29.96	761.0	30.23	767.8	17	— 8.3	.....	w.	2	0.9	.....	0	0	.....	.....	0	0	fair	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.26	768.6	30.29	769.4	66.0	18.9	68	se.	14.0	6.3	.....	.....	10 s	.....	.....	0.370	9.4	hazy	John Duthie.
Cape Town, C. G. H. Obs'y	30.10	764.5	30.14	765.5	73.0	22.8	62	s.	18	8.0	.....	4	6	.....	.....	0.520	13.2	.....	The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Chinese (Sub-series).																			
Hankow	30.02	762.5	30.30	769.6	52.7	11.5	83	sw.			2		10			0	0		N. Titoushkin.
Zi-Ka-Wei, near Shanghai	30.11	764.8	30.13	765.4	47.3	8.5	94	se.	4.9	2.2			10 n			0.016	0.4	raining	M. Marc Dechevrens, S.J.
Danish.																			
Copenhagen	30.41	772.4	30.46	773.6	47.1	8.4	67	nne.	7	3			0						Oversergent Fischer.
Faröe	30.47	773.8	30.48	774.3	53.8	12.1	86	nnw.			4		0						Overloerer Lauridsen.
Godthaab, Greenland	29.52	749.9	29.57	751.0	23.4	— 4.8	89	n.			3		10					snowing	S. Kleinschmidt.
Stykkisholm, Iceland	30.06	763.4	30.10	764.5	45.3	7.4	94	s.			6		10					raining	A. O. Thorlacius.
Thorshavn	30.55	776.0	30.59	776.9	47.3	8.5	73	sw.	7	3			2						Overloerer Bergh.
Vestervig	30.42	772.6	30.51	774.9	53.1	11.7	58	nnw.			2		0						Loerer Oesterboi.
French.																			
Agen, Normal School	29.41	747.0	30.05	763.2	56.5	13.6	66	sw.			1		k;n			0.087	2.2		M. Labroue, Director.
Alençon, Normal School	29.60	751.9	30.15	765.9	58.6	14.8	50	ne.			4			n.	n.	0	0		M. Nicot, Director.
Arras, Engineer School	29.93	760.2	30.19	766.7	56.5	13.6	46	ene.			2					0	0		Capt. Bertrand, Dir.
Avignon, Normal School	30.05	763.2	30.13	765.2	66.4	19.1	46	n.			1		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.57	751.1	30.12	763.1	61.7	16.5	38	se.			1		0			0	0	clear	M. Saillard, Director.
Beauvais, Normal School	29.93	760.3	30.20	767.1	54.0	12.2	48	ese.			2		0			0	0	clear	M. Frère Eugène Marl.
Besançon, Normal School	29.12	739.6	29.98	761.6	64.0	17.8	43	ne.			1	0	1 cn		nw.	0	0	clear	M. Gobin, Director.
Bordeaux, Observatory	29.82	757.5	30.08	764.1	65.1	18.4	50	se.			1		8			0.071	1.8	very cloudy	M. Rayet, Director.
Bourges, Normal School	29.58	751.2	30.12	765.1	65.3	18.5	44	ne.			1					0	0		M. Postel, Director.
Brest, Naval Observatory	29.91	759.7	30.15	765.9	56.8	13.8	69	nne.			2		2		nne.	0	0		M. de Kermaree, Dir.
Caen, Normal School	30.07	763.8	30.15	765.7	58.6	14.8	61	e.			1		0			0	0	clear	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.60	751.7	29.91	759.6	68.7	20.4	23	sse.			1		0			0	0	clear	M. Jadot, Director.
Charleville, Normal School																			M. Grimard, Director.
Clermont-Ferrand Obs'y	28.73	729.8	30.06	763.6	64.4	18.0	50	ne.			1	0	5 k			0	0	½ covered	M. Alluard, Director.
Cluny, Normal School	29.25	743.0	30.10	764.6	64.0	17.8	46	n.			1			sw.		0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.32	744.8	30.20	767.0	61.2	16.2	32	ne.			1	0	0			0	0	clear	Dr. Coulet, Director.
Gap, Normal School	27.54	699.4	30.03	762.8	60.8	16	8	n.			10					0	0		M. Jeangirard, Director.
Gréasque, du. Rhone	28.98	736.2	30.10	764.6	60.3	15.7	29	e.			3		7		se.	0	0		M. Kina, Director.
Grenoble, Normal School	29.32	744.8	30.08	764.0	63.5	17.5	19	se.			1	0	2 ks			0	0	slightly cl'dy	M. Ablard, Director.
Guéret, Normal School	28.51	724.2	30.08	764.0	61.7	16.5	69	se.			1		n		se.	0.406	10.3		M. Rivoire, Director.
Lamballe, Normal School	29.92	760.0	30.19	766.9	59.0	15	70	ne.			2		1		ne.	0	0	foggy	M. Ollitrault, Director.
Lescar, Normal School	29.48	748.8	30.04	763.0	63.3	17.4	65	ese.			3	0	2 kn			0	0	slightly cl'dy	M. Chanvin, Director.
Lorient, Naval Observatory	30.04	763.1	30.15	765.7	65.3	18.5	62	ne.			1		0			0	0	clear	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.00	738.1	30.10	764.5	65.7	18.7	30	s.			1	0	5 k			0	0	fair	M. André, Director.
Mans, Normal School	29.75	755.7	30.06	763.5	58.8	14.9	43	e.			3		0			0	0	clear	M. Piboen, Director.
Marseille, Observatory	29.82	757.4	30.09	764.2	63.9	17.7	52	ese.			3		8		se.	0	0		M. Stephan, Director.
Montlouis l'Instituteur	24.80	630.0	29.65	753.0	32.0	0.0	100	ne.	7.4	3.3			10	e.					M. Cave, for Dr. Fines.
Montpellier, Normal School	29.97	761.2	30.10	764.5	63.3	17.4	57	e.			2		2		s.	0	0	slightly cl'dy	M. Galzin, Director.
Nancy, Normal School	29.30	744.2	30.08	763.9	57.9	14.4	63	ne.			2	0	0			0	0	clear	M. Hasse, Director
Nantes, Observatory	29.97	761.2	30.13	765.4	66.2	19	41	ene.			0–1	0	0			0	0		M. Larocque, Director.
Perpignan, Observatory	30.03	762.7	30.14	765.5	53.4	11.9	74	se.	11.2	5.0			10		e.	0.059	1.5		Dr. Fines, Director.
Pic-du-Midi, Summit	21.13	536.6			23.9	— 4.5		ne.			2		10		ne.	0.071	1.8	snowy	Gen'l de Nansouty, Dir.
Privas, Normal School	29.03	737.3	30.09	764 2	61.2	16.2	47	s.			1		0			0	0	clear	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.21	640.3			43.2	6.2	82	e.			2	0	8 k		e.	0.012	0.3	¼ covered	M. Alluard, Director.
Rochefort, Naval Obs'y	30.06	763.4	30.09	764.2	64.4	18.0	100	sw.			1		10			0	0	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.87	758.8	30.09	764.3	65.8	18.8	56	ene.			1		2		n.	0	0	slightly cl'dy	M. Mouillot, Director.
Rodez, Normal School	27.97	710.3	30.11	764.7	56.1	13.4	55	e.			1		5			0.425	10.8	fair	M. Serger, Director.
Rouen, Normal School	30.13	765.4	30.18	766.6	59.7	15.4	38	e.			1		0			0	0	clear	M. Brotier.
Saint Maur, Observatory	30.00	762.1	30.17	766.3	59.7	15.4	39	ene.			2		0			0.	0		M. Renou, Director.
Toulouse, Observatory	29.40	746.8	30.13	765.2	62.2	16.8	47	se.			2		2	s.		0.024	0.6	slightly cl'dy	M. Bailland, Director.
Versailles, Observatory	29.67	753.6	30.17	766.2	59.0	15.0	30	e.			3					0	0		Dr. A. Hérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.89	759.1	30.18	766.5	57.0	13.9	35	ne.			2		0			0	0		M. Marié Davy, Director
German.																			
Bamberg	29.43	747.5	30.29	769.4	59.0	15.0	30	ne.			5	0	0			0	0		Prof. Dr. Hoh.
Berlin	30.19	760.7	30.36	771 2	56.5	13.6	26	n.			1		0			0	0		Prof. Dr. Arndt.
Breslau	29.79	756.7	30.33	770.3	50.2	10.1	24	wnw.			2		0			0	0		Royal University Obs'y.
Carlsruhe	29.79	756.6	30.23	767.8	58.3	14.6	30	ne.			5		0			0	0		Albert Senz.
Cassel	29.60	751.7	30.31	769.8	59.4	15.2	24	n.			4		0			0	0		Dr. H. Möhl.
Frankfort on the Main	29.89	759.3	30.26	768 6	60.6	15.9	17	ene.			3		0			0	0		Physical Society.
Friedrichshafen	28.73	729.8	30.19	766.9	48.6	9.2	66	sw.			2		0			0	0		Wilhelm, Chief Tel.
Hamburg	30.37	771.5	30.47	773.9	53.1	11.7	42	ne.			2		0			0	0		E. Preller.
Kiel	30.46	773.7	30.48	774.1	47.8	8.8	55	nne.			2		0			0.004	0.1		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.97	761.2	30.40	772.1	50.9	10.5	29	ne.			3		0			0	0		H. Leppig, Asst.
Magdeburg	30.22	767.7	30.42	772.6	55.0	12.8	38	nne.			1	0	0			0	0		Dr. Assmann.
Memel	30.33	770.4	30.38	771.6	42.6	5.9	51	nnw.			5	0	1 k						Issermann.
Munich	28.37	720.6	30.24	768.2	55.4	13.0	23	e.			2		0			0	0		Central Station.
Neufahrwasser	30.39	771.8	30.40	772.2	43.2	6.2	72	n.			3		0			0	0		A. Lothes.
Neustadt, Palatinate	29.71	754.7	30.24	768.2	60.8	16.0	41	ene.			1		2			0	0		Dicknether.
Stuttgart	29.24	742.8	30.13	765.4	59.9	15.5	27	n.			1		0			0	0		Prof. Dr. Schoder.
Wustrow	30.46	773.6	30.48	774.3	45.5	7.5	85	n.			3	0	0			0	0		Profs. Brandes & Reimer
Greek.																			
Athens	29.87	758.8	30.28	769.0	49.3	9.6		ne.			3.0	5 k				0	0		Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.78	756.5	29.84	757.8	81.1	27.3	82	wsw.	32.0	14.3			6		w.	0	0	d. clouds	
Deesa	29.28	743.8	29.74	755.5	93.7	34.3	39	wsw.	10.0	4.5			8	wnw.		0	0	d. clouds	
Bombay	29.76	755.8	29.79	756.8	86.3	30.2	58	nw.	22.0	9.8			0			0	0	blue sky	
Poona, Yarrowda	27.91	708.9	29.70	754.2	97.2	36.2	12	nw.	27.0	12.1			6		w.	0	0	d. clouds	
Belgaum	27.26	692.5	29.75	755.6	86.1	30.1	57	sw.	10.0	4.5			4	ne.		0.06	1.5	showery	
Lahore	28.93	734.8	29.68	753.8	73.6	23.1	72	ne.	4.1	1.8			2			0.43	10.9	blue sky	
Roorkee	28.85	732.8	29.74	755 4	84.0	28.9	31	ne.	2.8	1.2			8			0.01	0.3	thund'rst'm	
Agra	29.15	740.3	29.69	754.2	95.6	35.3	26	nw.	3.5	1.6			8		nw.	0	0		
Nagpur	28.68	728.6	29.69	754.0	99.5	37.5	15	nw.	4.3	1.9			8		sw.	0	0	d. clouds	
Jubbulpore	28.38	720.9	29.68	754.0	99.1	37.3	14	w.	3.1	1.4			2			0	0	d. clouds	
Lucknow	29.38	746.3	29.75	755.6	92.0	33.3	27	ene	2.5	1.1			0			0	0	blue sky	
Allahabad	29.39	746.5	29.69	754.1	97.5	36.4	17	ne.	1.4	0.6			0			0	0	blue sky	
Patna	29.56	750.9	29.74	755.4	92.9	33.8	20	nw.	2.2	1.0			2	nw.	nw.	0	0		
Hazaribagh	27.72	704.0	29.66	753.5	92.8	33.8	11	nw.	7.2	3.2			0			0	0	blue sky	
Cuttack	29.04	752.9	29.72	754.9	89.3	31.8	57	ssw.	4.8	2.2			3			0	0		
Calcutta, Alipore	29.81	757.2	29.83	757.7	82.7	28.2	60	sw.	13.0	5.8			10		w.			thud'rstorm	
Dhubri	29.66	753.3	29.78	756.3	80.3	26.8	67	e.	11.1	5.0			5	w.		0	0	gloomy	
Chittagong	29.75	755.6	29.84	757.9	81.2	27.3	81	sw.	3.3	1.5			5			0	0	d. clouds	
Sibsagar	29.59	751.5	29.93	760.3	66.8	19.3	95	ne.	5.1	2.3			10	w.	w.	0.75	19.0	overcast	
Jeypore	28.27	718.1	29.68	753.8	92.7	33.7	24	wnw.	7.2	3.2			2		wnw.	0	0	d. clouds	
Zanzibar, Africa	29.85	758.2			83.1	28.4	75	sse.	7.0	3.1			7		se.	0	0	gloomy	
Bellary	28.29	718.6			98.0	36.7	13	se.	4.2	1.9		0	0			0	0	blue sky	
Trichinopoly	29.56	750.8			95.1	35.1	31	ese.	1	0.4			3			0	0	d. clouds	
Italian.																			
Udine	29.84	757.8	30.24	768.2	59.4	15.2	23	ne.	0.7	0.3			0			0	0		Prof. Giovanni Clodig.
Milan	29.76	755.9	30.28	769.0	56.8	13.8	37	se.	3.1	1.4			0			0	0		Prof. Schiaparelli.
Padua	30.17	766.2	30.28	769.0	54.9	12.7	32	ene.	5.6	2.5			0			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.35	745.6	30.26	768.5	54.7	12.6	53	ne.	1.8	0.8			2			0	0		Prof. P. F. Denza.
Genoa	30.00	761.9	30.19	766.7	59.4	15.2	15	nw.	7.4	3.3			4	s.		0	0		Prof. G. M. Garibaldi.
Mondovi	28.31	719.1	30.23	767.9	49.1	9.5	55	w.			4		1			0	0		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
ITALIAN.—Continued.																			
Pesaro	30.20	767.1	30.25	768.3	52.2	11.2	41	e.	8.7	3.9			0			0	0		Prof. Luigi Guidi.
Florence	29.91	759.8	30.17	766.2	56.8	13.8	32	ne			6		0			0	0		Prof. Costantino Pitter.
Leghorn	30.02	762.4	30.10	764.6	59.7	15.4	32	se.	14.3	6.4			5			0	0		Prof. P. Monte.
Rome	29.92	759.9	30.09	764.3	64.6	18.1	17	n.	1.8	0.8			8			0	0		Prof. P. S. Ferrari.
Lecce	29.89	759.1	30.14	765.5	59.9	15.5	64	nnw.	9.4	4.2			8			0	0		Prof. C. de Giorgi.
Cosenza	29.20	741.6	30.09	764.2	54.3	12.4	70	nnw.	4.9	2.2			7	w.		0	0		Prof. D. Conti.
Cagliari	29.76	755.8	29.95	760.7	56.5	13.6	81	e.			2		10			0.571	14.5		Prof. A. Pacinotti.
Palermo	29.72	754.8	29.97	761.1	58.8	14.9	66	wsw.	1.8	0 8			10			0.016	0.4		Prof. G. Ciacciatore.
Syracuse	29.93	760.1	29.97	761.2	57.0	13.9	78	ese.	18.6	8.3			10	ene.		0.598	15.2		Prof. Vincenzo Guiliano.
Sub-series.																			
Naples, S. R	29.56	750.9	30.09	764.2	59.2	15.1	41	e.	11.2	5.0			3	ne.		0	0		Prof. T. Brioschi.
Stelvio	22.25	565 2			32.2	0.1	51	e.			2		0			0	0	clear	Prof. P. F. Denza.
Valdobbia	22.28	565.9			25.9	— 3.4	52	e.			6		0			0	0	clear	Prof. P. F. Denza.
JAPANESE.																			
Aomori	30.23	767.8	30.27	768.8	41.0	5.0	70	s.	15.7	7.0		0	0			0	0	clear	K. Ogawa.
Hakodate	30.20	767.1	30.21	767.3	45.0	7 2	60	wsw.	18.0	8.0			0			0	0	clear	
Hiroshima, I. M. Obs'y	30.24	768.1	30.26	768.6	46.3	7.9	73	nne.	4.7	2.1		0	0			0.059	1.5	clear	K. Sasaki.
Kanazawa	30.23	767.8	30.33	770.4	41.9	5.5	87	se.	4.6	2.1		0	0			0	0	clear	S. Endo.
Kioto	30.13	765.3	30.31	769.9	44.3	6.8	90	nnw.	2.1	0.9		0	0			0	0		M. Tojima.
Kochi	30.30	769.6	30.32	770.1	56.1	13.4	75	e.	8.4	3.8		ck	9 ks			0	0	fair	
Nagasaki, I. M. Obs'y	30.03	762.7	30.24	768.1	54.7	12.6	79	s.	0.7	0.3		0	6s			0.230	5.8	cloudy	S. Takehayashi.
Niigata	30.31	769.9	30.34	770.6	41.5	5.3	90	w.	1.0	0.4		0	0			0	0	clear	
Nobiru	30.33	770.4	30.35	770.9	43.7	6.5	81	sw.	8.9	4.0		0	0			0	0	clear	H. Midzushina.
Supporo					42.8	6.0	67	s.	16.8	7.5			0			0.002	0.1	clear	
Tokei Obs'y, Yeddo	30.26	768.6	30.33	770.4	52.0	11.1	87	se.	4.9	2.2		0	0			0	0	clear	The Staff.
Wakayama	30.27	768.8	30.32	770.1	47.4	8.6	71	ne.	2.5	1.1		0	0			0	0	clear	Y. Kuwamuea.
MAURITIUS.																			
Mauritius Observatory	29.69	754.1	29.88	758 9	77.4	25.2	69	e.	13.0	5.8		ack;cs	5 ks;n		w.	0.01	0.3	fair	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.68	601.4	29.90	759.4	66.2	19.0	48	w.				0	9 p			0	0	gloomy	Vicente Fernandez.
Leon	24.35	618.5	30.05	763.3	56.8	13.8	69	ne.			1	8 c	1 k	sw.	s.	0	0	cloudy	Prof. M. Leal.
Mazatlan	29.71	754.7	29.98	761.4	64.0	17.8	83	nnw.	0.9	0.4		2 cs	0	w.		0	0	clear	F. Quijano, C. E.
Mexico, Central Obs'y	23.06	585 8	30.16	766.1	51.8	11.0	79	calm	0	0		2 c	2 ks			inap.	inap.	fine	The Staff.
Morelia	24.25	616.0	30.38	771.8	59.0	15.0	65	se.			2	1	2	e.	se.	inap.	inap.	clear	M. Tena, M. D.
Pabellon, Aguascallentes	23.88	606.6	29.90	759.4	55.9	13.3	59	w.			1	4 cs	0	w.		0	0	clear	M. V.de Leon, M. E.
Puebla, Catholic Institute	23.35	593.2	30.01	762.2	57.2	14.0	85	calm	0	0		0	3		w.	0.004	0.1	clear	Prof. P. Spina.
San Luis Potosi	24.12	612.6	29.92	760.2	61.6	16.5	61	ssw.			1	7	0	w.		0	0	½ clouded	G. Barroeta, M. D.
Zacatecas	22.51	571.7	30.12	764.9	54.4	12.5	95	s.	27.0	12.0		5 cs	0			0	0	½ clouded	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.30	769.6	30.30	769.6	56.1	13.4		ene.			5					0	0		
Groningen	30.39	771.8	30.44	773.2	52.7	11.5		ene.			4					0	0		
Helder	30.42	772.6	30.42	772.6	48.2	9.0		ne.			4					0	0		
Hellevoetsluis	30.30	769.7	30.30	769.7	56.8	13.8	42	ene.			4					0	0		
Utrecht	30.31	769.9	30.36	771.1	59.2	15.1	31	ene.			4					0	0	clear	H. van der Brink.
NORWEGIAN.																			
Bergen	30.51	775.0	30.58	776.6	47.8	8.8	41	nw.	4	2			0			0	0		
Brono	30.52	775.2	30.56	776.2	44.2	6.8	71	sw.	9	4			8			0	0		
Christiania	30.35	770.9	30.50	774.7	55.6	13.1	27	sse.	2	1			0			0	0		
Gjæsvær	29.98	761.4	30.00	762.0	40.6	4.8		w.			8		10						
Lodingen	30.33	770.3	30.37	771.5	37.6	3.1	92	sw.			4–6		10					raining	
PORTUGUESE.																			
Angra, Azores					60.8	16.0	78	se.	21.7	9.7			7			0	0		Dr. J. A. Sampaio.
Campo Major	28.91	734.4	29.91	759.6	62.2	16.8	46	nne.	11.2	5.0			9			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	29.99	761.7	30.08	763.9	64.4	18.0	45	sw.					8			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.61	752.0	29.97	761.1	60.8	16.0	56	n.	15.4	6.9			1			0.008	0.2		The Staff.
Ponta Delgada, Azores	29.94	760.5	30.01	762.3	62.6	17.0	76	sse.	15.0	6.7			3			0	0		
Saint Paul de Loando	29.68	753.9	29.88	759.0	78.3	25.7	87	ese.	1.3	0.6			10			0	0		
Serra da Estrella	25.20	640.0	30.00	762.0	40.3	4.6	82	e.	20.6	9.2			9			0	0		
RUSSIAN.																			
Akmolinski	28.99	736.3	30.17	766.3	7.7	—13.5	75	ne.	22	10		8 ck	0			0	0		Major K. Lasarew.
Archangel	30.26	768.5	30.28	769.0	37.6	3.1	84	w.	9	4			9 ks			0	0		Capt. Sselliwerstow.
Astrakhan	30.26	768.5	30.17	766.4	40.5	4.7	60	ene.	2	1			10 s;n			blank	blank		Capt. Wisganow.
Barnaul	29.65	753.0	30.19	766.8	11.7	—11.3	60	ne.	9	4			8			0	0		Meteorological Obs'y.
Dorpat	30.12	765.0	30.37	771.4	43.2	6.2	48	ene.	9	4			10 k			0	0		Observatory.
Ekaterinburg	29.26	743.2	30.27	768.8	32.7	0.4	25	w.	4	2			0			0	0		Meteorological Obs'y.
Kasan	30.13	765.3	30.42	772.6	26.8	— 2.9	32	calm	0	0			0			0	0		Observatory.
Kertch	30.17	766.2	30.19	766.7	35.8	2.1	78	ese.	2	1			10 n			0	0		Lagorio & Sastyrex.
Kieff	29.33	745.0	30.00	761.9	33.1	0.6	96	n.	11	5			10ks;n			0.071	1.8	snowing	Observatory.
Lugan	29.90	759.5	30.11	764.9	30.0	2.2	62	se.	4	2			8			0.008	0.2		Meteorological Obs'y
Moscow	29.71	754.6	30.21	767.2	37.9	3.3	38	w.	4	2		0	0			0	0		Meteorological Obs'y.
Nikolaiev	30.04	763.0	30.11	764.8	43.3	0.3	41	n.	9	4		4 cs	0			0.205	5.2		Capt. Kurdakow.
Nikolaievsk, on the Amoor	29.30	744.3	29.39	746.5	37.8	3.2	54	calm	0	0			0			0	0		Lieut. Iwanow.
Pekin, China	29.78	756.3	29.92	759.9	57.9	14.4	52	calm	0	0		0	5 k			0	0		Physical Observatory
St. Petersburg	30.37	771.3	30.38	771.7	41.7	5.4	43	ene.	9	4			9 ks			0	0		Central Physical Obs'y
Ssemipalatinsk	29.50	749.3	30.22	767.5	12.6	—10.8	58	n.	13	6		3 c	0			0	0		Major Lasaren.
Tashkend, Laboratory	28 30	718.7	29.87	758.6	53.6	12.0	73	nw.	4	2			10			0	0	light clouds	Teich, A. M.
Tiflis	28.55	725.1	30.00	762.1	40.1	4.5	68	n.	4	2			10			0.256	6.5		Physical Observatory
Vladivostok	30.00	762.1	30.07	763.8	36.5	2.5	52	ne.	9	4		0	0			0	0		
Warsaw	29.84	758.0	30.28	769.1	41.5	5.3	65	nnw.	13	6		0	6 k;ks						Astronomical Obs'y
Wilna	29.82	757.5	30.26	768.5	45.3	7.4	49	n.	4	2			7			0	0		Berg, Assistant.
Yeniseisk	29.76	755.9	30.08	764.0	5.0	—15.0	64	w.	9	4			9			0	0		M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	29.86	758.4	29.97	761.1	53.6	12	82	e.	13.4	6.0			10			0.055	1.4	squally	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.01	762 3	30.07	763.8	60.3	15.7	79	nw.	3.1	1.4		2	3	sw.		0.047	1.2	cloudy	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.08	687.8	30.06	763.4	53.6	12.0	60	n.	9.8	4.4			6			0	0	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27.70	703.6	29.92	760.0	56.5	13.6	50	ne.	24.2	10.8			10			inap.	inap.	covered	The Staff.
Murcia, Met. Obs'y	29.69	754.0	29.84	757.8	59.0	15.0	74	wnw.	3.8	1.7		4	5	w		0.504	12.8	almost cov'd	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.13	739.9	30.03	762.8	56.8	13.8	66	ne.	18.1	8.1			9			0	0	almost cov'd	R. Gil Vallanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I	30.01	762.2	30.07	763.9	73.3	22.9	86	ese.	5.3	2.4		0	0			inap.	inap.	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.95	760.6	30.00	762.0	82.4	28.0	67	ese.	0	0		0	ks			0	0	clear	F. Faura, S. J.
San Fernando, Naval Obs'y	29.80	756.9	29.90	759.2	62.1	16.7	59	calm	0	0		0	9		w.	0.037	0.9		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	30.02	762.5	30.11	764.8	73.8	23.2	90	ne.	10.7	4.8		0	8 kn		ne.	0.087	2.2	cloudy	Manuel Maeu.
Tuguegarao, Philippine Id's	29.91	759.7	30.04	763.0	77.9	25.5	80	nw.	5.6	2.5		0	6 ks		ne.	0	0	cloudy	José L. Yrastorza.
SWEDISH																			
Haparanda	30.33	770.4	30.37	771.4	46.0	7.8	57	w.			2		10			0	0		
Umea	30.39	772.0	30.45	773.3	49.8	9.9	46	nw.			2		5			0	0		
Hernosand	30.47	773.9	30.52	775.2	49.5	9.7	46	n.			2		1			0	0		
Stockholm	30.28	769.2	30.46	773.7	47.8	8.8	44	ne.			4		0			0	0		
Wisby	30.39	772.0	30.45	773.5	39.9	4.4	77	nne.			2		0			0	0		
Sub-series.																			
Upsala	30.37	771.5	30.46	773.7	47.8	8.8	46	n.	15.9	7.1			0			0	0		S. G. Fineman.
SWISS.																			
Geneva	28.72	729.6	30.15	765.9	53.2	11.8	49	n.			3					0	0	clear	The Observatory

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Turkish.																			
Constantinople	.....	.....	30.26	768.5	42.3	5.7	37	n.	14	6.3	.....	.....	8	.....	n.	0	0	.....	The Observatory.
Valona	.....	.....	30.19	766.9	58.8	14.9	.....	nw.	.....	.....	1	.....	5	.....	.....	0.08	2.	cloudy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	29.92	759.9	66.6	19.2	70	sw.	.....	.....	3	0	5 ks	.....	sw.	0	0	.....	Prof. C. V. A. van Dyck.
United States.																			
Albany, New York	30.05	763.3	30.13	765.3	43	6.1	80	s.	14	6.3	.....	.....	10 s	.....	s.	0.40	10.2	cloudy	J. C. Barnes.
Alpena, Michigan	29.27	743.4	29.96	761.0	43	6.1	93	w.	15	6.7	.....	.....	10 s	.....	.....	0.21	5.3	cloudy	Jas. J. Fitzgerald.
Atlanta, Georgia	29.03	737.3	30.22	767.6	65.2	18.4	81	se.	7	3.1	.....	3 k	7 s	calm	calm	0	0	cloudy	H. Hall.
Atlantic City, New Jersey	30.17	766.3	30.18	766.6	42	5.6	100	n.	3	1.3	.....	.....	10s;fg	.....	.....	0.07	1.8	cloudy	Jas. M. Watson.
Augusta, Georgia	30.08	764.0	30.27	768.8	64	17.8	84	calm	0	0	.....	1 c	hz.	.....	.....	0	0	clear	John Healy.
Baltimore, Maryland	30.17	766.3	30.22	767.6	45	7.2	93	calm	0	0	.....	.....	10s;fg	.....	.....	0.01	0.3	cloudy	Robert Seyboth.
Barnegat, New Jersey	30.16	766.1	30.18	766.6	40.0	4.4	100	ne.	7	3.1	.....	.....	10 n	.....	.....	0.08	2.0	light rain	Chas. F. Merritt.
Bismarck, Dakota	28.14	714.7	30.01	762.2	32	0.0	88	ne.	10	4.5	.....	8 ck	0	.....	.....	0	0	cloudy	Cyrus Cramer.
Boise City, Idaho	27.23	691.6	30.07	763.8	31	— 0.6	81	w.	12	5.4	.....	.....	10 s	.....	calm	0.13	3.3	cloudy	B. E. Light.
Boston, Massachusetts	30.06	763.5	30.22	767.6	33.0	0.6	88	se.	8	3.6	.....	.....	10 s	.....	se.	0.04	1.0	cloudy	O. B. Cole.
Brownsville, Texas	29.70	754.4	29.75	755.6	75	23.9	90	se.	16	7.2	.....	.....	10 ks	.....	se.	0	0	cloudy	J. C. Galloway.
Buffalo, New York	29.15	740.4	29.92	760.0	53	11.7	85	sw.	21	9.4	.....	.....	10 s	.....	sw.	0.10	2.5	cloudy	Wm. Finn.
Burlington, Vermont	29.68	753.9	29.98	761.5	35.0	1.7	79	s.	32	14.3	.....	.....	10 n	.....	w.	0.24	6.1	light rain	G. C. Schaeffer.
Cairo, Illinois	29.64	752.8	30.05	763.3	68.1	20.1	93	s.	1	0.4	.....	.....	10 s	.....	s.	0.03	0.8	threatening	W. H. Ray.
Campo, California	27.37	695.2	29.95	760.7	30.7	— 0.7	88	nw.	2	0.9	.....	0	0	.....	.....	0.02	0.5	clear	W. H. Clendenon.
Camp Thomas, Arizona	27.06	687.3	29.80	756.9	46	7.8	36	nw.	.....	.....	1	hz.	0	.....	.....	0	0	clear	J. T. Fitzgerald.
Cape Henry, Virginia	30.24	768.1	30.26	768.6	48	8.9	100	s.	5	2.2	.....	.....	fg.	.....	.....	0.03	0.8	dense fog	J. E. Lanouette.
Cape May, New Jersey	30.14	765.5	30.18	766.6	45	7.2	100	calm	0	0	.....	.....	fg.	.....	.....	0.06	1.5	dense fog	W. Bolten.
Cedar Keys, Florida	30.15	765.8	30.17	766.3	70	21.1	84	e.	11	4.9	.....	0	9 ks	.....	e.	inap.	inap.	cloudy	F. W. Mixer.
Champaign, Illinois	29.21	741.9	30.05	763.3	59.2	15.1	87	ne.	7	3.1	.....	.....	10 s	.....	ne.	0.02	0.5	cloudy	L. A. Welsh.
Charleston, S. Carolina	30.18	766.6	30.24	768.1	67.5	19.7	87	sw.	3	1.3	.....	0	5 ks	.....	sw.	0	0	fair	J. H. Smith.
Charlotte, N. Carolina	29.38	746.2	30.24	768.1	57.0	13.9	86	ne.	2	0.9	.....	.....	10 s	.....	w.	0	0	cloudy	D. O. Donoghue.
Chattanooga, Tennessee	29.36	745.7	30.19	766.8	65.5	18.6	92	se.	4	1.8	.....	.....	10 n	.....	s.	0.66	16.8	light rain	B. L. Goulding.
Cheyenne, Wyoming	23.60	599.4	29.60	751.8	36.2	2.3	66	nw.	12	5.4	.....	4 cs	0	se.	.....	0	0	fair	E. McGovern.
Chicago, Illinois	29.35	745.5	30.08	764.0	50.6	10.3	84	n.	4	1.8	.....	.....	10 s	.....	.....	0.01	0.3	cloudy	J. Mitchell.
Chincoteague, Virginia	30.19	766.8	30.21	767.3	45	7.2	100	sw.	5	2.2	.....	.....	10 s	.....	.....	0.01	0.3	cloudy	V. P. Temple.
Cincinnati, Ohio	29.43	747.5	30.10	764.5	67.8	19.9	84	sw.	2	0.9	.....	.....	10 k	.....	w.	0.41	10.4	cloudy	R. B. Watkins.
Cleveland, Ohio	29.28	743.7	30.04	763.0	54.5	12.5	90	w	10	4.5	.....	7 k	0	w.	.....	inap.	inap.	fair	J. B. Newlin.
Coleman City, Texas	27.99	710.9	29.81	757.2	66	18.9	90	se.	15	6.7	.....	.....	10 s	.....	s.	0	0	cloudy	L. Dorman.
Columbus, Ohio	29.20	741.7	30.07	763.8	65	18.3	90	sw.	12	5.4	.....	0	8 ks	.....	sw.	0.28	7.1	cloudy	D. Cuthbertson.
Concho, Texas	27.81	706.4	29.75	755.6	67	19.4	90	se.	14	6.3	.....	0	9 s	.....	s.	0	0	cloudy	W. W. McConihe.
Davenport, Iowa	29.40	746.7	30.07	763.8	51	10.6	80	e.	3	1.3	.....	2 cs	5k;fg	calm	w;c	0	0	fair	R. R. Martin.
Dayton, Washington T'y	28.44	722.4	30.19	766.8	29.5	— 1.4	82	sw.	4	1.8	.....	0	0	.....	.....	0	0	clear	H. Clifford.
Deadwood, Dakota	25.11	637.8	29.80	756.9	34	1.1	92	n.	4	1.8	.....	.....	10 n	.....	s.	0.03	0.8	light rain	G. W. Scott.
Decatur, Texas	.....	.....	.....	.....	67	19.4	73	s.	22	9.8	.....	.....	10 s	.....	s.	0	0	cloudy	D. J. Carr.
Delaware Breakwater, Del.	30.17	766.3	30.19	766.8	44	6.7	100	sw.	3	1.3	.....	.....	fg.	.....	.....	0.03	0.8	dense fog	A. Schneider.
Denison, Texas	29.06	738.1	29.86	758.4	69.2	20.7	90	s.	8	3.6	.....	.....	10 s	.....	s.	0	0	cloudy	J. McGlone.
Denver, Colorado	24.31	617.5	29.58	751.3	48.0	8.9	45	s.	6	2.7	.....	0	6 s	.....	s.	0	0	fair	F. M. Neal.
Des Moines, Iowa	29.14	740.1	30.07	763.8	45	7.2	83	e.	6	2.7	.....	7 cs	0	w.	.....	0	0	fair	F. W. Conrad.
Detroit, Michigan	29.30	744.2	30.03	762.7	56.0	13.3	74	w.	14	6.3	.....	0	0	.....	.....	0.02	0.5	clear	C. F. R. Wappenhans.
Dodge City, Kansas	27.10	688.3	29.74	755.4	60	15.6	72	s.	19	8.5	.....	0	0	.....	.....	0	0	clear	E. A. Thomas.
Dubuque, Iowa	29.38	746.2	30.10	764.5	45.5	7.5	71	ne.	6	2.7	.....	.....	10 s	.....	ne.	0	0	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.37	746.0	30.09	764.3	38	3.3	82	nw.	21	9.4	.....	0	0	.....	.....	0.84	21.3	clear	N. B. Conger.
Eagle Pass, Texas	29.02	737.1	29.83	757.7	68.4	20.2	93	se.	8	3.6	.....	.....	10 s	.....	.....	0	0	cloudy	F. Belford.
Eagle Rock, Idaho	25.12	638.0	29.84	757.9	31	— 0.6	92	n.	11	4.9	.....	.....	10 ks	.....	nw.	0.83	21.1	cloudy	J. M. Clifford.
Eastport, Maine	30.25	768.3	30.32	770.1	31	— 0.6	62	sw.	14	6.3	.....	.....	10 n	.....	sw.	inap.	inap.	light snow	J. H. Melton.
El Paso, Texas	25.99	660.1	29.73	755.1	50	10.0	98	w.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.24	742.7	29.99	761.7	59	15.0	87	sw.	10	4.5	.....	.....	10 ks	.....	w.	0.12	3.0	cloudy	R. H. Paxton.
Escanaba, Michigan	29.36	745.7	30.05	763.3	38	3.3	89	nw.	5	2.2	.....	.....	10 s	.....	nw.	0.26	6.6	cloudy	O. Dill.
Florence, Arizona	28.38	720.8	29.88	758.9	38.5	3.6	53	sw.	1	0.4	.....	0	0	.....	.....	0	0	clear	R. R. Herman.
Fort Apache, Arizona	24.86	631.4	29.78	756.4	28	— 2.2	61	ne.	2	0.9	.....	0	0	.....	.....	0	0	clear	W. C. Barnes.
Fort Assinnaboine, Montana	27.16	689.9	30.06	763.5	31	— 0.6	71	ne.	6	2.7	.....	.....	10 n	.....	ne.	0, 10	2.5	light snow	B. O. Lenoir.
Fort Bennett, Dakota	28.32	719.3	29.96	761.0	34	1.1	100	e.	12	5.4	.....	.....	10 s	.....	.....	0.07	1.8	light rain	T. Gibson.
Fort Benton, Montana	27.20	690.9	30.06	763.5	32	0.0	88	ne.	8	3.6	.....	.....	10 s	.....	calm	0.43	10.9	cloudy	S. Wheaton.
Fort Buford, Dakota	28.03	711.9	30.10	764.5	34	1.1	100	e.	17	7.6	.....	.....	10 n	.....	e.	0.01	0.3	light rain	A. H. Bell.
Fort Custer, Montana	26.62	676.1	29.80	756.9	35	1.7	100	n.	9	4.0	.....	.....	10 n	.....	calm	0.27	6.9	heavy rain	V. Verge.
Fort Davis, Texas	24.88	631.9	29.68	753.9	45	7.2	58	se.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. Williams.
Fort Elliott, Texas	26.98	685.3	29.76	755.9	53	11.7	61	se.	20	8.9	.....	.....	10 s	.....	se.	0	0	cloudy	W. J. Cundall.
Fort Gibson, Indian T'y	29.30	744.2	29.88	758.9	70.5	21.4	84	se.	8	3.6	.....	.....	10 s	.....	s.	0	0	cloudy	J. B. Campbell.
Fort Grant, Arizona	25.06	636.5	29.79	756.7	37	2.8	46	sw.	14	6.3	.....	0	hz.	.....	.....	0	0	dense haze	T. J. Macgowan.
Fort Griffin, Texas	28.46	722.9	29.76	755.9	66	18.9	90	se.	10	4.5	.....	0	4 ks	.....	s.	0	0	fair	G. H. Hayne.
Fort Keogh, Montana	27.32	693.9	29.86	758.4	36	2.2	92	ne.	6	2.7	.....	.....	10 n	.....	ne.	0.52	13.2	heavy rain	W. B. Stockman.
Fort Macon, North Carolina	30.27	768.8	30.28	769.1	56	13.3	100	ne.	3	1.3	.....	.....	fg.	.....	.....	0	0	dense fog	L. Leonardy.
Fort McKavett, Texas	27.56	700.0	29.82	757.4	66	18.9	84	se	14	6.3	.....	6 k	0	s.	.....	0	0	fair	J. E. Thatcher.
Fort Missoula, Montana	26.73	678.9	30.04	763.0	35	1.7	89	nw.	1	0.4	.....	.....	10 s	.....	.....	0.16	4.1	cloudy	J. H. Jones.
Fort St. Michaels, Alaska	29.69	754.1	29.72	754.9	24	— 4.4	100	s.	25	11.2	.....	.....	10 s	.....	s.	0	0	threatening	A. P. Leavitt.
Fort Shaw, Montana	26.39	670 3	30.06	763.5	28	— 2.2	88	nw.	10	4.5	.....	10 cs	0	.....	.....	0.44	11.2	cloudy	A. L. Mathews.
Fort Sill, Indian Territory	28.56	725.4	29.80	756.9	65	18.3	93	se.	16	7.2	.....	7 ck	3 s	s.	se.	0	0	cloudy	T. Cleary.
Fort Stevenson, Dakota	28.16	715.3	30.06	763.5	33	0.6	88	e.	16	7.2	.....	0	9 ks	.....	e.	0	0	cloudy	W. Burrows
Fort Verde, Arizona	.....	.....	.....	.....	38	3.3	47	nw.	.....	.....	1	4 k	6 s	w.	nw.	0	0	cloudy	D. Brooks.
Fort Washakie, Wyoming	24.03	610.4	.....	.....	32.8	0.4	97	s.	8	3.6	.....	.....	10 n	.....	.....	0.04	1.0	light snow	T. M. Ambler.
Fredericksburg, Texas	28.06	712.7	29.78	756.4	66	18.9	93	sw	16	7.2	.....	.....	10 ks	.....	sw.	0	0	cloudy	H. S. Miles.
Galveston, Texas	29.87	758.7	29.91	759.7	73	22.8	95	s.	15	6.7	.....	5 cs	0	s.	.....	0.01	0.3	fair	E. O'C. MacInerney.
Grand Haven, Michigan	29.39	746.5	30.08	764.0	44.0	6.7	83	nw.	12	5.4	.....	.....	10 s	.....	nw.	c.03	0.8	cloudy	W. A. Reid.
Hatteras, North Carolina	30.26	768.6	30.28	769.1	54	12.2	100	n.	3	1.3	.....	.....	fg	.....	.....	inap.	inap.	dense fog	R. M. Crawford.
Helena, Montana	25.78	654.8	30.04	763.0	32	0.0	100	nw.	6	2.7	.....	.....	10 n	.....	nw.	0.22	5.6	light rain	N. C. Smith.
Henrietta, Texas	28.82	732.0	29.85	758.2	68.0	20.0	84	s.	16	7.2	.....	0	4 s	.....	se.	0	0	fair	J. W. Byram.
Huron, Dakota	28.57	725.7	30.02	762.5	34	1.1	74	ne.	15	6.7	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.22	742.2	30.04	763.0	66.5	19.2	79	sw.	3	1.3	.....	.....	10 s	.....	s.	0.05	1.3	cloudy	O. Schutze
Indianola, Texas	29.85	758.2	29.88	758.9	73.0	22.8	97	s.	12	5.4	.....	0	7 ks	.....	s.	0	0	fair	I. A. Reed.
Jacksboro, Texas	28.63	727.2	29.81	757.2	66	18.9	90	se.	18	8.0	.....	.....	10 ks	.....	se.	0	0	cloudy	J. P. Sherry.
Jacksonville, Florida	30.16	766.1	30.20	767.1	70	21.1	90	e.	5	2.2	.....	.....	10 s	.....	e.	0	0	cloudy	J. W. Smith.
Keokuk, Iowa	29.35	745.5	30.02	762.5	51.2	10.7	86	ne.	6	2.7	.....	2 c;k	0	w.	.....	0	0	clear	F. Z. Gosewisch
Key West, Florida	30.08	764.0	30.10	764.5	76.0	24.4	82	se.	7	3.1	.....	0	4 k	.....	se.	0.03	0.8	fair	L. M. Melbourne.
Kittyhawk, North Carolina	30.29	769.4	30.31	769.9	50	10.0	100	w.	5	2.2	.....	.....	fg	.....	.....	0.10	2.5	dense fog	E. A. Beals.
Knoxville, Tennessee	29.17	740.9	30.21	767.3	63	17.2	93	sw.	4	1.8	.....	.....	10 n	.....	sw.	0.16	4.1	light rain	J. A. Cody.
La Crosse, Wisconsin	29.30	744.2	30.10	764.5	45	7.2	68	nw.	2	0.9	.....	.....	10 s	.....	.....	0.07	1.8	cloudy	S. C. Emery.
La Mesilla, New Mexico	25.87	657.1	29.75	755.6	41.3	5.2	51	calm	0	0	.....	0	hz.	.....	.....	0	0	clear	N. D. Lane.
Leavenworth, Kansas	29.06	738.1	29.97	761.2	58	14.4	74	e.	4	1.8	.....	4 k	0	s.	.....	0	0	fair	A. W. Browne.
Lewiston, Idaho	29.37	746.0	30.22	767.6	34.4	1.3	56	se.	1	0.4	.....	6 k	0	.....	.....	0.01	0.3	fair	W. Blake.
Little Rock, Arkansas	29.62	752.3	29.94	760.5	70	21.1	100	se.	1	0.4	.....	.....	10 s	.....	s.	0.02	0.5	cloudy	W. U. Simmons.
Los Angeles, California	29.66	753.4	30.06	763.5	45.2	7.3	83	nw	13	5.8	.....	0	0	.....	.....	0	0	clear	E. F. Kubel.
Louisville, Kentucky	29.48	748.8	30.05	763.3	68	20.0	90	s.	5	2.2	.....	.....	10 n	.....	.....	0.44	11.2	light rain	H. U. Smyth.
Lynchburg, Virginia	29.53	750.0	30.24	768.1	51.0	10.6	86	s.	1	0.4	.....	.....	10s;fg	.....	.....	0.02	0.5	cloudy	W. R. Bushby.
Madison, Wisconsin	29.06	738.1	30.10	764.5	43	6.1	83	nw.	9	4.0	.....	.....	10 s	.....	nw.	0	0	cloudy	C. A. Shaw.
Marquette, Michigan	29.29	744.0	30.04	763.0	38	3.3	81	nw.	12	5.4	.....	.....	10 s	.....	nw.	0.41	10.4	cloudy	J. Gilligan.
Mason, Texas	28.15	715.0	29.80	756.9	68.8	20.4	81	s.	13	5.8	.....	.....	10 s	.....	s.	0	0	cloudy	P. M. Wilson.
Memphis, Tennessee	29.67	753.6	30.01	762.2	69	20.6	100	se.	6	2.7	.....	.....	10 n	.....	.....	0.62	15.7	light rain	D. T. Flannery.
Milwaukee, Wisconsin	29.37	746.0	30.09	764.3	46	7.8	83	w.	9	4.0	.....	.....	10 s	.....	w.	0.02	0.5	cloudy	W. Line.

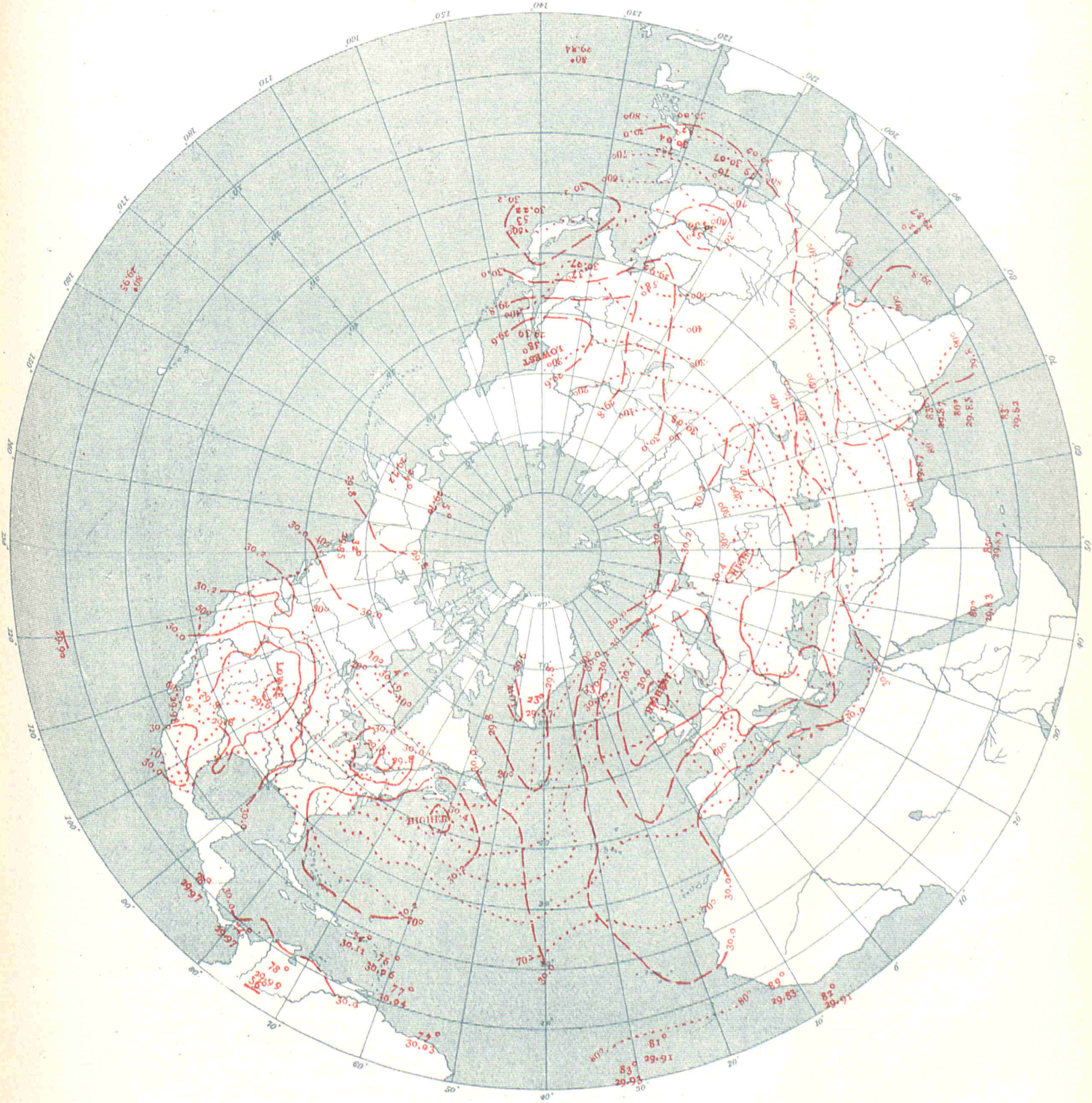
STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–01	0–10	0–10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Mobile, Alabama	30.07	763.8	30.11	764.8	70	21.1	93	calm	0	0	.....	.....	10 s	.....	se.	0.07	1.8	cloudy	J. D. Paxton.
Montgomery, Alabama	29.92	760.0	30.15	765.8	69.5	20.8	86	se.	3	1.3	.....	2 k	4 s	s.	s.	0	0	fair	J. B. McLaughlin.
Moorhead, Minnesota	29.09	738.9	30.12	765.0	29.1	— 1.6	88	calm	0	0	.....	.....	fg.	.....	.....	0.19	4.8	dense fog	H. Bessant.
Morgantown, W. Virginia	29.10	739.1	30.14	765.5	61.0	16.1	87	sw.	4	1.8	.....	.....	10 s	.....	sw.	0.22	5.6	cloudy	G. C. Lewis.
Mt. Washington, N. H.	23.68	601.5	30.08	764.0	29.0	— 1.7	92	nw.	60	26.8	.....	.....	ton;fg	.....	nw.	0.80	20.3	sleeting	J. G. Linsley.
Nashville, Tennessee	29.54	750.3	30.08	764.0	68.5	20.3	84	se.	3	1.3	.....	.....	10 ks	.....	sw.	0.45	11.4	cloudy	L. A. Jesunofsky.
New Haven, Connecticut	30.09	764.3	30.21	767.3	36	2.2	100	se.	3	1.3	.....	.....	ton;fg	.....	se.	0.04	1.0	light rain	J. H. Sherman.
New London, Connecticut	30.14	765.5	30.20	767.1	38	3.3	82	se.	8	3.6	.....	.....	10 s	.....	se.	0.23	5.8	cloudy	J. G. Lynch.
New Orleans, Louisiana	29.99	761.7	30.05	763.3	73.5	23.1	89	se.	8	3.6	.....	.....	10 s	.....	s.	0	0	cloudy	S. Dunne.
Newport, Rhode Island	30.16	766.1	30.21	767.3	37.0	2.8	96	se.	11	4.9	.....	.....	10 n	.....	se.	0.11	2.8	light rain	W. McGillivray.
New River, N. Carolina	.....	.....	.....	.....	59	15.0	100	calm	.....	.....	0	.....	fg.	.....	.....	0	0	dense fog	C. C. Corbin.
New Shoreham, Rhode I'd.	30.20	767.1	30.23	767.8	39.0	3.9	89	se.	5	2.2	.....	.....	10 n	.....	se.	0.10	2.5	light rain	W. Davis.
New York, New York	30.02	762.5	30.20	767.1	38	3.3	100	e.	6	2.7	.....	.....	10s;fg	.....	.....	0.03	0.8	cloudy	E. B. Garriott.
Norfolk, Virginia	30.24	768.1	30.27	768.8	51	10.6	93	sw.	4	1.8	.....	.....	10s;fg	.....	.....	inap.	inap.	cloudy	J. T. Elker.
North Platte, Nebraska	26.78	680.2	29.74	755.4	48.6	9.2	91	e.	18	8.0	.....	0	fg.	.....	.....	0	0	light fog	E. F. Brady.
Olympia, Washington T'y	30.17	766.3	30.21	767.3	32.5	0.3	88	calm	0	0	.....	8 cs	0	calm	.....	0.01	0.3	cloudy	J. Dascomb.
Omaha, Nebraska	28.80	731.5	30.01	762.2	45.8	7.7	84	e.	14	6.3	.....	0	2 k	.....	e.	0	0	clear	A. Pollak.
Ooglaamie, Pt. Barrow, Alas.	29.68	753.9	29.70	754.4	4.8	—15.1	98	se.	22	9.8	.....	.....	10 s	.....	.....	0	0	cloudy	P. H. Ray.
Oswego, New York	29.58	751.3	29.92	760.0	48.0	8.9	71	s.	13	5.8	.....	.....	10 s	.....	w.	0.22	5.6	cloudy	S. W. Beall.
Palestine, Texas	29.36	745.7	29.92	760.0	70.0	21.1	87	s.	10	4.5	.....	5 ck	0	s.	.....	0.03	0.8	fair	L. M. Pindell.
Pensacola, Florida	30.10	764.5	30.12	765.0	71.0	21.7	97	se.	12	5.4	.....	.....	10 s	.....	s.	inap.	inap.	cloudy	M. McGauran,
Philadelphia, Pa	30.11	764.8	30.21	767.3	42	5.6	92	ne.	5	2.2	.....	.....	10 s	.....	ne.	0.01	0.3	cloudy	T. F. Townsend.
Pike's Peak, Colorado	17.34	440.4	29.62	752.3	9.5	—12.5	100	sw.	16	7.2	.....	.....	fg.	.....	sw.	0	0	dense fog	L. M. Dey.
Ploche, Nevada	23.89	606.8	29.88	758.9	24	— 4.4	67	n.	16	7.2	.....	0	0	.....	.....	0.07	1.8	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.24	742.7	30.06	763.5	65.0	18.3	73	sw.	8	3.6	.....	.....	10 s	.....	w.	inap.	inap.	cloudy	J. H. Bryce.
Port Eads, Louisiana	30.05	763.3	30.06	763.5	72.1	22.3	98	se.	14	6.3	.....	0	7 s	.....	se.	0.22	5.6	fair	H. G. Christian.
Port Huron, Michigan	29.29	744.0	29.99	761.7	52.0	11.1	77	w.	11	4.9	.....	.....	8 ks	.....	w.	0.08	2.0	cloudy	W. O. Bailey.
Portland, Maine	30.18	766.6	30.23	767.8	39.0	3.9	73	s.	11	4.9	.....	.....	10 s	.....	s.	0.14	3.6	cloudy	D. C. Murphy.
Portland, Oregon	30.15	765.8	30.21	767.3	32.0	0.0	88	se.	2	0.9	.....	3 c	0	calm	.....	0.01	0.3	clear	M. L. Hearne.
Portsmouth, N. Carolina	.....	.....	.....	.....	56	13.3	80	ne.	1	0.4	.....	.....	fg.	.....	calm	0	0	dense fog	F. P. Chaffee.
Prescott, Arizona	24.55	623.6	29.77	756.1	29	— 1.7	61	s.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. McN. Wright.
Provincetown, Mass	30.18	766.6	30.21	767.3	35	1.7	89	se.	21	9.4	.....	.....	10 n	.....	se.	0.18	4.6	light rain	P. T. Jenkins.
Punta Rassa, Florida	30.10	764.5	30.10	764.5	69.5	20.8	93	e.	7	3.1	.....	.....	fg.	.....	e.	0	0	dense fog	W. J. Evans.
Red Bluff, California	29.83	757.7	30.20	767.1	39.0	3.9	76	nw.	5	2.2	.....	0	0	.....	.....	0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.56	750.8	29.80	756.9	70	21.1	90	s.	5	2.2	.....	3 c	0	calm	.....	0	0	clear	W. H. Taylor.
Rochester, New York	29.20	741.7	29.89	759.2	50	10.0	86	sw.	24	10.7	.....	0	6 s	.....	w.	0.16	4.1	fair	A. T. Sherwood.
Roseburg, Oregon	29.68	753.9	30.24	768.1	32	0.0	88	e	4	1.8	.....	.....	fg.	.....	.....	0.05	1.3	dense fog	J. J. Nanry.
Sacramento, California	30.07	763.8	30.15	765.8	46.0	7.8	68	n.	7	3.1	.....	0	0	.....	.....	0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.41	747.0	30.02	762.5	64.9	18.3	93	s.	11	4.9	.....	6 k;hz	0	e.	.....	0	0	fair	J. H. Webber.
St. Paul, Minnesota	29.20	741.7	30.09	764.3	37.0	2.8	82	n.	2	0.9	.....	4 c	3 ks	w.	.....	0.09	2.3	fair	P. F. Lyons.
St. Vincent, Minnesota	29.28	743.7	30.18	766.6	24	— 4.4	88	n.	7	3.1	.....	4 c	0	calm	.....	0.02	0.5	fair	G. Kingsbury.
Salt Lake City, Utah	25.39	644.9	29.76	755.9	33	0.6	81	nw.	11	4.9	.....	.....	10 n	.....	.....	1.35	34.3	light snow	J. Craig.
San Antonio, Texas	29.13	739.9	29.83	757.7	68.0	20.0	93	se.	4	1.8	.....	0	2 ks	.....	se.	0	0	clear	E. Lane.
San Diego, California	29.93	760.2	30.00	762.0	47.4	8.6	85	e.	3	1.3	.....	hz.	0	.....	.....	0	0	clear	A. C. Dobbins.
Sandusky, Ohio	29.33	745.0	30.03	762.7	59	15.0	75	w.	16	7.2	.....	0	5 s	.....	.....	0.08	2.0	fair	M. H. Perry.
Sandy Hook, New Jersey	30.16	766.1	30.20	767.1	41.0	5.0	100	se.	10	4.5	.....	.....	10 n	.....	se.	0.03	0.8	light rain	B. A. Blundon.
San Francisco, California	30.11	764.8	30.18	766.6	47	8.3	56	w.	5	2.2	.....	0	0	.....	.....	0	0	clear	N. Gorom.
Santa Fé, New Mexico	22.91	581.9	29.67	753.6	38.6	3.7	49	s.	6	2.7	.....	0	2 s	.....	sw.	0	0	clear	H. U. Jones.
Savannah, Georgia	30.15	765.8	30.24	768.1	64.5	18.1	89	se.	1	0.4	.....	0	5 s	.....	se.	0	0	fair	H. W. Ford.
Shreveport, Louisiana	29.71	754.6	29.95	760.7	72	22.2	90	s.	6	2.7	.....	.....	10 s	.....	s.	inap.	inap.	cloudy	E. N. Meekins.
Silver City, New Mexico	24.03	610.4	29.71	754.6	38	3.3	51	nw.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. B. Wallace.
Sitka, Alaska	29.78	756.4	29.85	758.2	32	0.0	78	ne.	6	2.7	.....	0	0	.....	.....	0.11	2.8	clear	J. J. McLean.
Smithville, North Carolina	30.24	768.1	30.28	769.1	61	16.1	100	e.	5	2.2	.....	.....	fg.	.....	.....	0	0	dense fog	O. Parker.
Spokane Falls, Wash. Ter.	28.10	713.7	30.16	766.1	32	0.0	81	sw.	5	2.2	.....	0	0	.....	.....	0.05	1.3	clear	D. Moore.
Springfield, Illinois	29.36	745.7	30.06	763.5	59	15.0	84	ne.	8	3.6	.....	.....	10 s	.....	n.	0	0	cloudy	T. B. Jennings.
Springfield, Massachusetts	30.08	764.0	30.21	767.3	38.0	3.3	89	s.	7	3.1	.....	.....	10 s	.....	s.	0.45	11.4	cloudy	T. S. Outram.
Springfield, Mo	28.52	724.4	30.04	763.0	64	17.8	90	se.	8	3.6	.....	4 c	4 s	.....	s.	0	0	cloudy	J. B. Marbury.
Stockton, Texas	26.70	678.2	29.73	755.1	60.0	15.6	93	se.	12	5.4	.....	0	0	.....	.....	0	0	clear	J. O'Dowd.
Thatcher's Island, Mass	30.15	765.8	30.20	767.1	36.5	2.5	94	s.	19	8.5	.....	.....	10 n	.....	.....	0.02	0.5	light rain	G. Liebmann.
Toledo, Ohio	29.30	744.2	30.01	762.2	60	15.6	76	w.	9	4.0	.....	0	6 k	.....	sw.	0.01	0.3	fair	A. Buell.
Tucson, Arizona	27.43	696.7	29.82	757.4	47	8.3	86	w.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.91	759.7	30.28	769.1	32.0	0.0	78	sw.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. Daly.
Uvalde, Texas	28.81	731.8	29.78	756.4	69	20.6	90	se.	7	3.1	.....	.....	10 ks	.....	se.	0	0	cloudy	E. C. Imlay.
Vicksburg, Mississippi	29.78	756.4	30.04	763.0	69	20.6	90	se.	6	2.7	.....	0	9 s	.....	s.	0.13	3.3	cloudy	T. J. Kenan.
Visalia, California	29.72	754.9	30.08	764.0	35.1	1.7	88	nw.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. T. Cochran.
Washington, D. C.	30.10	764.5	30.22	767.6	44	6.7	100	calm	0	0	.....	.....	10s;fg	.....	.....	0.02	0.5	cloudy	B. M. Purssell.
West Las Animas, Colorado	25.60	650.2	29.56	750.8	55.9	13.3	69	s.	22	9.8	.....	0	0	.....	.....	0	0	clear	J. Grover.
Wickenburg, Arizona	.....	.....	.....	.....	35.5	1.9	77	calm	.....	.....	0	0	0	.....	.....	0	0	clear	H. A. Kremp.
Williamsport, Pa	29.53	750.0	30.14	765.5	42.5	5.8	77	ne.	2	0.9	.....	.....	10 s	.....	.....	0.02	0.5	threatening	B. F. Hough.
Wilmington, N. Carolina	30.22	767.6	30.28	769.1	61	16.1	93	calm	0	0	.....	.....	fg.	.....	.....	0	0	dense fog	E. W. McGann.
Winnemucca, Nevada	25.67	652.0	30.07	763.8	21	— 6.1	87	sw.	3	1.3	.....	0	0	.....	.....	0.04	1.0	clear	J. R. Williams.
Yankton, Dakota	28.64	727.4	29.98	761.5	43	6.1	74	sw.	24	10.7	.....	0	0	.....	.....	0	0	clear	J. H. Atfield.
Yuma, Arizona	29.78	756.4	29.93	760.2	45.4	7.4	62	sw.	2	0.9	.....	0	0	.....	.....	0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.03	559.6	.....	.....	55.5	13.1	74	se.	13	5.8	.....	6 ck	2 ks	.....	w.	0.15	3.8	fair	Joaquin Gomez.
Bridgetown, Barbados, W.I.	30.03	762.7	30.04	763.0	77	25.0	95	e.	.....	.....	.....	5 k	5 ks	e.	e.	0.40	10.2	cloudy	J. A. Racker.
Buenaventura, U. S. C.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. I. Plume.
Guadeloupe, W. I.	29.94	760 5	29.96	761.0	76	24.4	87	ne.	.....	.....	.....	2 k	2 ks	.....	.....	0.079	2.0	.....	B. Bigar.
Havana, Cuba, W. I.	30.08	764.0	30.13	765.3	75	23.9	90	se.	1.2	0.5	.....	0	0	.....	.....	0	0	clear	A. Van Caneghem.
Kingston, Jamaica, W. I.	30.05	763.3	30.06	763.5	75.3	24.1	77	calm	0	0	.....	0	2 s	.....	e.	0	0	fair	Robert Johnston.
Navassa, W. I.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	F. M. Everett.
Paramaribo, S. A.	30.03	762.7	30.03	762.7	77	25.0	86	e.	.....	.....	1	5 k	7 ps	e.	.....	0.010	0.3	.....	Dr. C. J. Hering.
Puerto Berrio, U.S. Col'mbia	29.53	750.0	29.99	761.7	78	25.6	95	calm	.....	.....	0	.....	10 ks	.....	calm	0.31	7.9	showery	Miss Flora A. Nichols.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	.....	.....	91	ne.	.....	.....	2	0	d	.....	ne.	0	0	clear	Earl Flint.
Santiago de Cuba, W. I.	30.07	763.8	30.09	764.3	75	23.9	69	n.	1.2	0.5	.....	3 c	2 s	.....	.....	0	0	fair	Robert Mason.
York Factory, B. A.	30.14	765.5	30.19	766.8	4.0	—15.6	87	nw.	14	6.3	.....	2 k	3 s	w.	w.	0	0	cloudy	W. Wood.

STATIONS AND VESSELS.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	Upper. From.	Lower. From.	Inch.	Mill.			
British Naval.																		
H. M. S. Agincourt, N. 36° 07′, W. 5° 21′	29.89	759.2	58	14.4	87	wnw.			1		2	nw.						d. clouds.
H. M. S. Alert, S. 5° 49′, E. 53° 04′	29.79	756.7	82.8	28.2	79	sse.			2		8							d. clouds.
H. M. S. Alexandra, Port Augusta, Sicily	30.02	762.5	58.2	14.6	90	e.			2–4		10							raining.
H. M. S. Bacchante, Jaffa, Palestine	29.97	761.2	63	17.2	57	w.			2		3							d. clouds.
H. M. S. Cleopatra, N. 9° 30′ E. 64° 22′	29.82	757.4	82.5	28.1	83	ne.			2		3	ne.						d. clouds.
H. M. S. Comus, Pelew Island, Oceania	29.84	757.9	80	26.7	95	ne.			6		4	ne.						squally.
H. M. S. Diamond, S. 38° 26′, E. 129° 56′	29.89	759.2	62	16.7	94	ne.			4–5		9	n.				2	ne.	showery.
H. M. S. Dido, N. 17° 00′, W. 61° 45′	30.10	764.5	77	25.0		e.			1–2		2	ne.						d. clouds.
H. M. S. Dryad, N. 24° 03′ E. 62° 00′	29.77	756.1				sw.			1		5	s				1	sw.	d. clouds.
H. M. S. Eclipse, S. 15° 06′, E. 43° 56′			82	27.8	100	sw.			1		2					2	ssw.	d. clouds.
H. M. S. Espiegle, S. 35° 57′, E. 121° 20′	29.64	752.8	64	17.8	94	nne.			3		0					3	n.	blue sky.
H. M. S. Fawn, N. 15° 22′, E. 42° 10′	29.83	757.7	79.5	26.4	78	nw.			1		2					1	nw.	misty.
H. M. S. Gannet, S. 33° 01′, W. 71° 37′	29.93	760.2	57.5	14.2	76	calm			0		0							misty.
H. M. S. Garnet, Montevideo, Uruguay	29.86	758.4	56	13.3	80	nw.			5		0							blue sky.
H. M. S. Inconstant, S. 29° 00′, E. 41° 15′	29.95	760.7	75	23.9	95	calm			0		6	ssw.				3	ssw.	d. clouds.
H. M. S. Iron Duke, N. 22° 16′, E. 114° 10′	30.12	765.0	70	21.1	95	ne.			1		4	ne.						d. clouds.
H. M. S. Lark, S. 10° 51′, E. 162° 26′	29.92	760.0	82.3	27.9		calm			0		3							d. clouds.
H. M. S. Liffey, Coquimbo, Chili	30.09	764.3	60	15.6		ne.			2		10							overcast.
H. M. S. Magpie, N. 34° 27′, E. 134° 16′	30.29	769.4	50.3	10.2	74	calm			0		0							blue sky.
H. M. S. Malabar, N. 17° 44′, E. 68° 20′	29.85	758.2	80	26.7	91	nnw.			3		2	nnw.				2	nw.	d. clouds.
H. M. S. Nelson, Sydney, N. S. Wales	30.03	762.7	68	20.0	79	wsw.			2		4	e.						d. clouds.
H. M. S. Northampton, Bermuda, W. I.	30.28	769.1	62.5	16.9	71	nne.			2		4	ene.						d. clouds.
H. M. S. Pegasus, N. 18° 44′, E. 113° 43′	30.07	763.8	76	24.4	49	e.			4		2	se.				4	ne	d. clouds.
H. M. S. Rambler, St. Paul de Loando, Bengnela	29.86	758.4	78	25.6	100	sw.			2		10							d. clouds.
H. M. S. Rocket, Esquimalt, Vancouver Id., B. C.	30.15	765.8	39	3.9		calm			0		8							raining.
H. M. S. Serapis, N. 13° 42′ E. 49° 46	29.87	758.7	85	29.3	71	ese.			2		2	e.						d. clouds.
H. M. S. Superb, N. 36° 52′, E. 16° 15′*	30.04	763.0	56	13.3	93	e.			3–4		5	ene.				2	ene.	raining.
H. M. S. Tenedos, N. 27° 54′ W. 68° 19′	30.28	769.1	71	21.7	77	ne.			1		1					2	ne.	blue sky.
H. M. S. Thalia, S. 33° 47′, E. 14° 18′	30.24	768.1	66.5	19.2	78	ese.			6		6					4	ese.	d. clouds.
H. M. S. Triumph, Valparaiso, Chili	29.92	760.0	57	13.9	93	w.			1		2	calm						d. clouds.
H. M. S. Tyne, N. 6° 58′, E. 90° 00′	29.87	758.7	84	28.9	75	n.			2–3		2	calm				2	s.	d. clouds.
H. M. S. Woodlark, N. 19° 50′, E. 69° 12′	29.87	758.7	82.5	28.1	74	wnw.			3–4		0					3	nw.	misty.
Portuguese Naval.																		
Rio Lima, Porto Praya, Cape Verde Islands	30.00	762.1	77.0	25.0	76	nne.			3		0					1		blue sky.
Tamega, Macao, China	30.15	765.9	67.6	19.8	83	calm			0		8							
United States Naval.																		
Navy Yard, Pensacola, Fla	30.07	763.8	72	22.2	95	e.	12	5.4			8		ese.	0	0			fair.
Navy Yard, Portsmouth, N. H	30.22	767.6	34	1.1	90	s.	6	2.7			10		s.	0.1	3.			cloudy.
Naval Hospital, Yokohama, Japan	30.15	765.8	53	11.7	76	w.			1		0			0	0			clear.
Adams, Panama, Panama	29.72	754.9	74	23.3	95	nw.			2		5?			0	0	sm'h		clear?
Alaska, S. 12° 45′, W. 77° 13′	29.90	759.4	66	18.9	89	sse.			2		10		s.	0	0	sm'h		cloudy.
Alert, N. 33° 44′, E. 131° 56′*	30.13	765.3	57	13.9	63	se.			2		2			0	0	sm'h		fair.
Alliance, N. 14° 13′ W. 79° 37′	29.97	761.2	78	25.6	86	ne.			3		2			0	0	sm'h		fair.
Ashuelot, Nagasaki, Japan	30.22	767.6	58	14.4	88	nne.			1		5		calm					fair.
Brooklyn, Montevideo, Uruguay	29.83	757.7	57	13.9	87	nw.	15	6.7			0			0	0	mod.	sw.	clear.
Colorado, New York, N. Y	30.18	766.6	38	3.3	100	e.	3	1.3			10		calm	0.04	1.0			drizzling.
Enterprise, Curacao, W. I.	30.00	762.0	79	26.1	86	e.			3–4		5		e.					fair.
Essex, N. 0° 56′ W. 80° 07*	29.91	759.7	82	27.8	83	sse.			2		5?					sm'h	s.	clear,?
Franklin, Norfolk, Va	30.29	769.4	50	10.0	?	s.	6	2.7			10		calm	0	0			fogky.
Galena, N. 41° 57′ E. 9° 57′	30.13	765.3	57	13.9	75	nne.			2		8		ne.			rg'h	ene.	cloudy.
Independence, Navy Yard, Mare Island, Cal	30.02	762.5	45	7.2	76	nw.			1		0			0	0			clear.
Kearsarge, N. 19° 14′ W. 68° 57′	30.12	765.0	75	23.9	81	ne.			4		8		ne.			long	ne.	fair.
Lackawanna, Callao, Peru*	29.87	758.7	64	17.8	94	s.			2		10							foggy.
Lancaster, Leghorn, Italy*	30.11	764.8	62	16.7	46	ene.			4		5		calm	0	0			fair.
Marion, S. 33° 54′, E. 18° 24′	30.10	764.5	68	20.0	74	se.			6		2		se.	0	0	sm'h		clear.
Michigan, Erie, Pa	29.94	760.5	60	15.6	100	sw.			4		10		w.					fair.
Minnesota, Newport, R. I.	29.21	741.9	38	3.3	90	sse	9	4.0			10		s.					cloudy.
Monocacy, Kobe, Japan	30.33	770.4	52	11.1	73	wnw.			1		0							clear.
New Hampshire, Newport, R. I.	30.21	767.3	37	2.8	100	sse.			3		10					sm'h		raining.
Nipsic, Barcelona, Spain	30.00	762.0	55	12.8	87	e.			6		10					hv'y	e.	showery.
Onward, Callao, Peru†	30.09	764.3	62	16.7	100	se.			2		10		n.			long	w.	foggy.
Palos, Kobe, Japan	30.23	767.8	48	8.9	70	calm			0		2		calm					clear.
Passaic, Washington, D. C.	30.23	767.8	44	6.7	92	calm			0		10							foggy.
Pensacola, Callao, Peru	29.99	761.7	63	17.2	100	s.	2	0.9			10		s.	0	0	sm'h		foggy.
Powhatan, Santa Ana, Curacoa, W. I.	30.02	762.5	80	26.7	78	ene.			3		5		e.					fair.
Portsmouth, Lynn Haven Bay, Va	30.23	767.8	48	8.9	100	sw.			3		10							misty.
Quinnebaug, Leghorn, Italy	30.14	765.5	60	15.6	47	e.			5		8		calm	0	0	sm'h		cloudy.
Ranger, Acapulco, Mexico*	29.90	759.4	78	25.6	78	calm			0		2		calm	0	0	sm'h		clear.
Richmond, Kobe, Japan*	30.23	767.8	54	12.2	67	calm			0		0			0	0			clear.
Shenandoah, Carthagena, N. S. C.	29.95	760.7	77	25.0	91	e.			1		5					sm'h		hazy.
St. Louis, League Island, Pa	30.46	773.7	40	4.4	100	ne.	2	0.9			10			0.02	0.5			drizzling.
Swatara, Kobe, Japan*	30.14	765.5	55	12.8	62	calm			0		0					sm'h		clear.
Tennessee, Port Royal, S. C.	30.27	768.8	67	19.4	100	e.	1.5	0.7			10			light	light			drizzling.
Vandalia, Port Royal, S. C.	30.37	771.4	68	20.0	95	ene.			1		10		calm					cloudy.
Wabash, Boston, Mass.	30.24	768.1	35	1.7	80	sse.			2		10		se.	0.04	1.0			cloudy.
Wachusetts, Sitka, Alaska	29.78	756.4	31	— 0.6		calm			0		0							clear.
Wyoming, Port Royal, S. C.	30.23	767.8	64	17.8	89	nne.	3	1.3			10		n.	0	0			overcast.
Yantic, N. 25° 12′ W. 80° 14′*	30.07	763.8	74	23.3	95	e.			4		5		e.			sm'h		fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Circassian, N. 43° 22′ W. 56° 30′	30.50	774.7	26	—3.3		w.			4		9		wnw.	1 h'r	1 h'r	2	wnw.	showery.
S. S. Polynesian, N. 52° 07′, W. 27° 54′*	29.85	758.2	54	12.2		se.			5		9		se.	2 h'r	2 h'r	sm'h		cloudy.
S. S. Scandinavian, N. 53° 26′, W. 19° 52′*	30.25	768.3	51	10.6		se.			4		8		e.	18 h'r	18 h'r	mod.	sse.	d. clouds.
S. S. Waldensian, Halifax, N. S.*	30.43	772.9	30	—1.1		nw.			4		10		nw.	0	0	h'vy	nw.	dull.
AMERICAN STEAMSHIP COMPANY.																		
S. S. British Crown, N. 39° 55′, W. 52° 28′†	30.29	769.4	35	1.7		nnw.			6		9		nnw.	2 h'r	2 h'r	r'gh	nw.	snowy.
S. S. Illinois, Philadelphia, Pa.	30.04	763.0	54	12.2	93	nw.			2		2		nw.					clear.
S. S. Indiana, N. 50° 43′, W. 16° 42′†	30.50	774.7	56	13.3	62	n.			1		8?		ne.	0	0	sli't	w.	clear.†
S. S. Ohio, N. 38° 49′, W. 71° 02′†	30.10	764.5	48	8.9	92	s.			2		10		sw.			mod.	e.	foggy.
ANCHOR LINE.																		
S. S. Ethiopia, N. 41° 23′, W. 52° 17′	30.18	766.6	33	0.6	94	nnw.			4		9		n.	3 h'r	3 h'r	mod.	nnw.	overcast.
S. S. Galatia, London, Eng.						ne.			6		5?		ese.	0	0			clear.†
S. S. India, N. 36° 04′ W. 5° 20′*	29.84	757.9	58	14.4	82	w.			3		2							fair.
ATLAS LINE.																		
S. S. Alvo, N. 14° 32′, W. 75° 17′	29.98	761.5				e.			8		9		e.	2 h'r	2 h'r	mod.	e.	squally.
S. S. Arden, N. 10° 40′, W. 71° 38′						ne.												fine.
S. S. Athos, Jan Juan, Porte Rico, W. I.	29.74	755.4				e.			1		8		e.	3 h'r	3 h'r	sm'h		cloudy.
S. S. Claribel, N. 38° 12′, W. 73° 40′*†	30.12	765.0	49	9.4	93	wsw.			3		fg.			0	0	long	e.	dense fog.
BOSTON AND HALIFAX LINE.																		
S. S. Carroll, N. 42° 26′ W. 63° 33′†	30.41	772.4	36	2.2	80	sse.			3									light snow.
BRITISH METEOROLOGICAL OFFICE.																		
S. S. Arran, S. 0° 38′, W. 22° 33′	29.93	760.2	83.3	28.5	68	sse.			3		3							showery.
Baroda, S. 1° 45′, E. 83° 00′	29.83	757.7	84.5	29.2	79	ene.			1		4							d. clouds.
British Merchant, S 1° 46′ E. 86° 38′	29.83	757.7	85.6	29.8	72	ese.			1		2							d. clouds.
Bk Caldew, N. 46° 52′, W. 17° 46′	30.35	770.9	55.3	12.9		ene.			1		6							d. clouds.
S. S. Cipero, Plymouth Sound	30.24	768.1	56.2	13.4	84	ene.			5		0							misty.
Bk. Commewyne, N. 52° 06′, W. 18° 18′	30.39	771.9	57.3	14.1	66	e.			4		5							d. clouds.
Corona, N. 2° 47′, W. 30° 33′	29.93	760.2	82.8	28.2	83	n.			4		3							d. clouds.
S. S. Gordon Castle, N. 16° 54′, E. 110° 55′	30.00	762.0	79	26.1	86	ene.			5		4							d. clouds.
S. S. Rosetta. N. 38° 27′, W. 9° 18′	29.93	760.2	59.5	15.3	67	n.			3		2							
CROMWELL LINE.																		
S. S. Hudson, N. 27° 27′, W. 87° 08′†	30.14	765.5	72	22.2		e.			2		2		ne.	0	0	mod.	se.	clear.
CUNARD LINE.																		
S. S. Bothnia, N. 40° 54′ W. 61° 12′	30.40	772.1				ne.			4		1		ne.	0	0	mod.	ne.	fair.
S. S. Scythia, N. 45° 08′, W. 42° 43′			37	2.8	90	nnw.			5		8		n.	2 h'r	2 h'r	r'gh	nnw.	cloudy.
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. Canada, N. 40° 47′, W. 63° 00′	30.40	772.2	35.6	2.0		ne.			2		5		ne.	0	0	sm'h		
S. S. France, N. 49° 15′, W. 13° 56′ †	30.22	767.7	51.8	11.0		e.			2				ene.	0	0	mod.	ne.	clear.
GUION LINE.																		
S. S. Arizona, N. 41° 39′, W. 54° 10′	30.28	769.1	32	0.0		nnw.			6		10		nw.	0	0	mod.	n.	dull.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Lessing, New York, N. Y.	30.38	771.7	55	12.8		ne.			3		5?		ne.	0	0			cloudy.†
S. S. Silesia, N. 48° 27′, W. 27° 20′*†	30.13	765.3	51.3	10.7		sse.			0		5?		sse.	2 h'r	2 h'r	4–5	s.	cloudy.†
S. S. Wieland, N. 49° 36′, W 23° 27′	30.29	769.4	57	13.9		ssw.			4		2		ssw.	4 h'r	4 h'r	4	s.	hazy.
INMAN LINE.																		
S. S. City of New York, N. 52° 09′, W. 5° 57′	30.40	772.1				e.			4		0			0	0	mod.	e.	hazy.
MALLORY LINE.																		
S. S. Colorado, N. 25° 31′, W. 85° 26′†	30.06	763.5	74	23.3		se.			2		2		se.	0	0	small	se.	clear.
MERCHANTS' EXPRESS LINE.																		
S. S. Hermod, N. 48° 40′, W. 42° 00′.†*	29.58	751.3	32.0	0.0		w.			3		10		w.	2 h'r	2 h'r	mod.	w.	cloudy.
NATIONAL LINE.																		
S. S. Canada, N. 40° 46′, W. 63° 17′			39	3.9		var.			2		6		nw.	0	0		n.	fine.
S S. England, Liverpool, Eng.	30.47	773.9				ene.			2		0			0	0			clear.
S. S. Erin, Gravesend, Eng.	30.26	768.6	00	15.6		ene.			4		0			0	0			fine.
S. S. Holland, N. 43° 49′, W. 42° 49′	29.91	759.7	34	1.1		nne.			4		8		ne.	3 h'r	3 h'r	mod.	ne.	sleeting.
S. S. Italy, N. 51° 01′, W. 13° 02′	30.38	771.6				ne.			4		2		n.	0	0	long	ne.	clear.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Niagara, Havana, Cuba, W I.†	30.10	764.5	74	23.3		ese.			2		1		s.	0	0			clear.
S. S. Santiago, Cienfuegos, Cuba, W. I†.	30.07	763.8	80	26.7		se.			2		1			2 h'r	2 h'r			fine.
NEW YORK HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, Vera Cruz, Mexico*†	29.92	760.0	76	24.4		se.			2		3		se.	0	0			clear.
S. S. City of Puebla, N. 37° 31′, W. 74° 20′†	30.23	767.8	45	7.2		ssw.			2		fg.					long	ene.	
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Alvena, N. 37° 50′, W. 74° 10†	30.24	768.1	42	5.6		var.			3								e.	dense fog.
S. S. Atlas, Los Cayes, Hayti, W. I*†	30.15	765.8	77	25.0		ne.			1							light		raining.
S. S. Lepanto, N. 42° 12′, W. 46° 40′*	30.00	762.0	27	—2.8		n.			6								n.	showery.
S. S. P. Caland, N. 47° 48′ W. 31° 40′	29.95	760.7	59.0	15.0		sse.			4							5	s.	
NORTH GERMAN LLOYD.																		
S. S. Hermann, N. 50° 06′, W. 4° 09′†	30.14	765.5	60.8	16.0		ene.			5		0			0	0	mod.		fair.
S. S. Hohenzollern, N. 6° 27′, W. 28° 51′*	29.91	759.7	70.7	21.5		nne.			4		5?		ne.	rain	rain		ne.	clear†
S. S. Kronprinz F. Wilhelm, N. 50° 19′, W. 1° 40′	30.25	768.3	50.0	10.0		ene.			4–5		0			0	0	3	e.	clear.
S. S. Main, N. 40° 58′, W. 66° 58′	30.24	768.1	35.6	2.0		sse.			4–5		10		s.			mod.	sse.	raining.
S. S. Ohio, N. 34° 56′, W. 67° 33′	30.37	771.4				se.			3		8		wsw.	0	0	sm'h	se.	cloudy.
S. S Rhein, N. 44° 00′, W. 41° 05′	29.77	756.1				nne.			6		6		n.	S h'r	S h'r	r'gh	n.	fair.
S. S. Salier, N. 50° 04′, W 4° 31′	30.26	768.6	50.0	10.0		ne.			2		1		e.	0	0	mod.	e.	clear.
S. S. Strassburg, N. 45° 47′, W 40° 37′	29.77	756.1	35.0	1.7	90	nw.			6		10			12 h'r	12 h'r	r'gh	nw.	sleeting.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Belgic, N. 38° 32′, W. 126° 30′†	30.23	767.8	52	11.1	73	calm			0		2		se.	0	0	mod.	wnw.	clear.
S. S. Oceanic, N. 35° 01′, E. 146° 05′*	30.32	770.1	53	11.7	93	n;nw.			3		0					2	n.	fine.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, New York. N. Y†	30.15	765.8				ne.			1		10			0	0			foggy.
S. S. Seminole, Boston, Mass.†	29.97	761.2	38	3.3	81	s.			4				sw.	0	0			dense fog.
OREGON IMPROVEMENT COMPANY.																		
S. S. Mississippi, Seattle, Wash. Ter.†	29.72	754.9	37	2.8	81	ese.			3		8		s.					fair.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. City of Chester, N. 50° 49′, W. 127° 37″*	29.94	760.5	41	5.0	91	ene.			4		8		ne.			sm'h		cloudy.
S. S. Columbia, Astorio, Oregon.†	30.11	764.8	38	3.3	63	sse.			1		2							clear.
S. S. Oregon, Portland, Oregon	30.15	765.8	46	7.8	77	calm			0									hazy.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, N. 33° 52′, W. 118° 46′.†	30.16	766.1	52	11.1	66	n.			1		0					mod.	nw.	clear.
S. S. Idaho, Seattle, Wash. Ter.†	29.72	754.9	48	8.9	78	se.			2		10		se.					raining.
S. S. State of California, San Francisco, Calif.	30.15	765.8	46	7.8	62	n.			2		0							clear.
S. S. Victoria, San Francisco, Calif.	30.17	766.3	47	8.3	62	w.			2		0			0	0			clear.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, Sydney, N. S. W.	30.18	766.6	64	17.8	83	ssw.			2		0							clear.
S. S. City of New York, S. 33° 58′, E. 159° 20′†	29.68	753.9	70	21.1	75	s.			0		10		s.	rain	rain	mod.	s.	cloudy.
S. S. City of Pekin, Panama, Panama†	29.97	761.2	74	23.3	90	nw.			1		8		nw.			sm'h		cloudy.
S. S. City of Rio de Janeiro, N. 30° 55′, W. 118° 00′*†	30.22	767.6	52	11.1	79	nw.			3		10					mod.	nw.	hazy.
S. S. City of Sydney, N 8° 27′, W. 162° 51′†	29.95	760.7	80	26.7	74	ene.			5		8		ne.	0	0	h'vy	ne.	cloudy.
S. S. Colon, N. 13° 08′, W. 77° 31′†	29.98	761.5	80	26.7		nne.			4		5		ene.	0	0	mod.	ne.	fair.
S. S. South Carolina, N. 9° 53′, W. 85° 40′.†	29.97	761.2	78	25.6	78	e.			3		0			0	0	sm'h		fair.
QUEBEC S. S. COMPANY.																		
S. S. Muriel, Dominica, W. I.	30.04	763.0	78	25.6		ene.			2		0			0	0	sm'h		fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.			Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.	Force.	Amount and kind.		Direction.				Character.	Direction from.	
									Upper.	Lower.	Upper.	Lower.					
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr. / Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
Red Star Line.																	
S. S. Belgenland, Antwerp, Belgium†	30.34	770.6	58	14.4	70	ene.		5		3		e.	0	0			clear.
S. S. Nederland, N. 46° 16′, W. 32° 40′*†	30.31	769.9	59	15.0		se.		4		10			0	0	r'gh	se.	misty.
S. S. Rhynland, Antwerp, Belgium	30.38	771.6	63	17.2	72	e.		3		0			0	0			clear.
S. S. Vaderland, N. 42° 47′ W. 42° 54′	29.87	758.7	36	2.2	70	nnw.		5		10		n.	7 h'r	7 h'r	long	nw.	cloudy.
S. S. Waesland, N. 40° 24′ W. 67° 28′	30.32	770.1	38	3.3		e.		3		10		w.	0	0	sm'h	e.	cloudy.
Rotterdam Line.																	
S. S. Schiedam, N. 43° 00′, W. 48° 35′*	30.13	765.3	45.0	7.2	91	nnw.		7		9		nnw.	5 h'r	5 h'r	cross	wnw.	hailing.
State Line.																	
S. S. State of Florida. N. 40° 18′ W. 69° 10′	30.23	767.8	40	4.4		e.		4		10		se.	4 h'r	4 h'r	mod.	e.	cloudy.
Thingvalla Line.																	
S. S. Thingvalla, Copenhagen, Denmark†	30.48	774.2	52.7	11.5		ne.		1		1		ne.	0	0			clear.
White Star Line.																	
S. S. Adriatic, N. 40° 35′ W. 68° 36′†	30.31	769.9	33	0.6		se.		5		8		e.	sh'rs	sh'rs	sm'h		d. clouds.
S. S. Britannic, N. 48° 17′, W. 30° 09′†	29.94	760.5	57	13.9		s.		5		8		sw.	0	0	mod.	sw.	d. clouds.
S. S. Celtic, Liverpool, Eng.†	30.55	776.0	52	11.1		e.		4		0			0	0			fine.
S. S. Germanic, N. 41° 20′, W 59° 50′†	30.41	772.4	36	2.2		n.		2		2		w.	0	0	sm'h	w.	fine.
Wilson Line.																	
S. S. Otranto, N. 50° 18′, W. 3° 01′†	30.30	769.6	60	15.6		ene.		4		2		ene.	0	0	sm'h	ene.	clear.
S. S. Romano, N. 48° 16′ W. 19° 26′*†	30.18	766.6	54	12.2		sw.		2		3		ese.	0	0	mod.	se.	clear.
Winsor Line.																	
S S. Catherine Whiting, Providence, R. I.	30.24	768.1				ssw.		6				ssw	rain	rain			rainy.
Miscellaneous.																	
Sch. Addie Fuller, N. 23° 30′, W. 82° 40′†	30.20	767.1	77	25.0	84	ese.		3	0	0			0	0	mod.	e.	clear.
Bk. Adelaide, Rio de Janeiro, Brazil*†	30.00	762.0	81	27.2		sse.						se.					
Schr. Ajax, N. 29° 04′. W. 89° 40′†	30.09	764.3				ese.		1		8		se.	0	0	sm'h	se.	cloudy.
Bk. Alpha, N. 28° 40′, W. 67° 15′†	30.19	766.8	68	20.0		e.		6		5		ne.	0	0	mod.	ne.	fair.
Bk. Antioch, S. 28° 25′ W. 32° 10′*†	29.95	760.7	79	26.1		nne.		6		1		se.	0	0	sm'h	se.	clear.
Schr. Asa Eldridge, Charlotte Harbor, Fla†	30.20	769.1				e.		3		10		ene.	0	0			misty.
Bk. Aureola, N. 24° 56′, W. 36° 17′*†	30.24	768.1	74	23.3		nnw.		2		5		nne.	0	0	long	nnw.	fair.
Sch'r Annie M. Small, S. 38° 50′ E. 5° 10′*†	30.20	767.1	60	15.6		nw.						nw.	0	0	long	w.	clear.
Bk. Bergenseren, Off Cape Spartel, Africa†	29.83	757.7				sw.		2				sw.	light	light	1	nw.	d. clouds.
Bkt. Carrie Heckle, N. 34° 40′, W. 73° 10′*†.	30.40	772.1	70	21.1		ssw.		4		2		sw.	1 h'r	1 h'r	short	ene.	clearing.
Bk. Celestina, S. 16° 13′, W. 34° 50′*†	29.96	761.0				se.		2		3		ese.	0	0	sm'h	ese.	fine.
Bk. Champion, N. 38° 57′ W. 65° 40′†	30.02	762.5				nnw.		6		10		nne.	0	0	r'gh	ne.	
Bk. E. L. Pettengill, N. 8° 18′ W. 120° 02′†	29.90	759.4				nne.		4		8		ne,	0	0	mod.	ne.	overcast.
S. Enoch Train, N. 49° 38′, W. 17° 50′*	30.21	767.3				ne.		2		3		ne.	0	0	long	nw.	fine.
S. Exporter, N. 28° 40′, W. 31° 30′*†	30.10	764.5				w.		3		1		nw.	0	0	long	nw.	fine.
Ship Festina Lente, N. 51° 37′, W. 35° 50′*	29.85	758.2	43	6.1		ene.		5		10		ene.	8 h'r	8 h'r	mod	wsw.	cloudy.
U. S. F. C. S. FishHawk, Washington, D. C.†	30.32	770.1	50	10.0	86	se.		1		10		se.	0	0			cloudy.
S. Grecian, S. 30° 25′, W. 32° 32′*†	29.95	760.7	73	22.8		n.		6		5		n.	0	0	sm'h	ne.	
Bk. Freya, N. 36° 39′, W. 71° 32′			53	11.7		wnw.		5		1g			1½h'r	1½h'r	cross	ne. e.	foggy
Bk. Granville, S. 36° 05′, E. 3° 25′*†	30.49	774.4				e.		3				se.	0	0	long	ssw.	clear.
Bk. Hattie G. McFarland, N. 34° 02′ W. 76° 28′*†	30.32	770.1	73	22.8		ssw.		3		3		sw.	0	0	long	s.	fair.
Schr. Henry Denison, Port Antonio, Jamaica, W. I†	30.04	763.0				ese.		4		3		ese.	rain	rain			fair.
S. Hedwig, N. 51° 17′, W. 33° 07′	29.84	757.9	51.6	10.9	100	sse.		5		10		sse.	7 h'r	7 h'r	4	w.	drizzling.
Schr. John L. Thomas, N. 30° 24′ W. 70° 58′*†	30.28	769.1				wsw.				1		n.	0	0	hv'y	ne.	fine.
Bg. John Wesley, Sagua la Grande, Cuba, W. I.†	30.02	762.5	78	25.6		calm		0		2			0	0			clear.
Bk. Jona, N. 36° 07′ W. 66° 03′*†	30.60	777.2				ese.		1		10		wnw.	0	0	h'vy	var.	cloudy.
Bk. Josephine, Aspinwall, Panama*†	30.05	763.3	82	27.8	62	n.		4		2			0	0			fair.
S. Lake Erie. N. 39° 20′ W. 73° 20′	30.13	765.3				calm		0		0			0	0	h'vy	e.	
Bk. Liberia, N. 31° 34′, W. 30° 51′*†	29.85	758.2	67	19.4	84	sw.		6		8		nw.	0	0		nw.	fine.
Light House Tender, Laurel, Key West, Florida†	30.12	765.0	76	24.4		ese.		2		1		se.	0	0	mod.	se.	threatening.
S. S. Malabar, Cardiff, Wales,*†	30.32	770.1				ne.						e.	0	0			
Bg. Medina, N. 22° 50′. W 79° 20′†	30.21	767.3				e.		4		5		e.			sm'h	e.	fine.
S. S. Nebo, S. 19° 16′ W. 38° 51′*†	29.92	760.0				ne.		1		1		se.	½ h'r	½ h'r	sm'h		clear.
Bk. Peppina, N. 44° 02′, W. 12° 47′†	30.16	766.1	55	12.8	80	ene.		4		8		e.			mod.	ene.	cloudy.
Bk. Pilgrim, S. 33° 12′, E. 152° 06′*†	30.00	762.0				ssw.		6		5		ssw.	rain	rain	cross	w.	rainy.
S. S. Radnorshire, N. 39° 38′ W. 49° 34′*†	29.98	761.5				n.		6		8		n.	2 h'r	2 h'r	mod.	n.	hailing.
S. Salisbury.N. 26° 04′, W. 40° 06′*.	30.08	764.0	66.2	19.0	70	wsw.		2-3		6		wsw.	0	0	mod.	nnw.	fair.
Bkt. Spotless, N. 4° 25′ W. 27° 05′*†	29.80	756.9										s.			mod.	e.	clear.
Bk. Stella, S. 58° 40′, W. 66° 50′*	29.63	752.6	30.2	—1.0	89	s		5		6		s.	snow	snow	mod.	sw.	snowing.
S. S. Victoria J. Peed, N. 11° 06′ W. 74° 35′*†	29.11	739.4				ne.		2		1					sharp		
S. Wm. Woodbury, N. 50° 24′, W. 28° 59′*†	29.80	756.9	56	13.3		se.		7				s.			cross	se.	cloudy.

International Chart I. April 7, 1882. Isobars and Isotherms.



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON APRIL 8, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours	.....	.....	29.95	760.6	63.3	17.4	88	ne.	.....	.....	2	.....	4	.....	.....	0.433	11.0	cloudy	Moiroud.
Algiers	.....	.....	29.86	758.4	59.4	15.2	87	nnw.	.....	.....	3	.....	10	.....	.....	0.071	1.8	covered	Nicolas.
La Calle	.....	.....	29.83	757.6	59.0	15.0	78	sw.	.....	.....	2	.....	5	.....	.....	0.209	5.3	cloudy	Fonfrède.
Tunis	.....	.....	29.84	757.8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	29.96	761.0	48.7	9.3	89	nnw.	.....	.....	1	.....	5	.....	.....	0.390	9.9	cloudy	Dumas.
Tebessa	.....	.....	29.90	759.4	51.8	11.0	87	nw.	.....	.....	1	.....	1	.....	.....	0.961	24.4	clear	Derché.
Geriville	.....	.....	.....	.....	52.2	11.2	32	nnw.	.....	.....	4	.....	5	.....	.....	0.035	0.9	cloudy	Lonchamp.
Laghouat	.....	.....	29.94	760.4	62.6	17.0	64	w.	.....	.....	1	.....	4	.....	.....	0	0	cloudy	Abraham.
Biskra	.....	.....	29.90	759.5	69.1	20.6	50	nw.	.....	.....	2	.....	6	.....	.....	0	0	cloudy	Malau.
Australian.																			
Melbourne, Victoria	30.08	764.0	30.17	766.3	53.3	11.8	91	ese.	4	1.8	.....	.....	0	.....	.....	0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.58	751.4	30.13	765.4	52.9	11.6	43	ne.	.....	.....	2	.....	7	.....	.....	0	0	.....	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.46	748.2	30.24	768.1	46.0	7.8	44	e.	11.9	5.3	.....	.....	10	.....	.....	0	0	.....	Dr. Wierzbiski.
Eperies	29.26	743.2	30.17	766.2	42.8	6.0	40	n.	.....	.....	3	.....	10 ks	.....	s.	0	0	.....	Julius Mikolik.
Gratz	28.86	733.0	30.12	765.1	51.3	10.7	68	se.	.....	.....	3	.....	3	.....	.....	0	0	.....	Andreas Rospini.
Hermannstadt	28.57	725.7	30.03	762.7	47.3	8.5	52	n.	.....	.....	3	.....	10	.....	.....	0	0	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.85	732.8	30.21	767.4	48.7	9.3	52	ne.	.....	.....	2	.....	3	.....	.....	0	0	.....	The Staff.
Lemberg	29.16	740.7	30.19	766.8	38.1	3.4	55	e.	.....	.....	1	.....	10	.....	.....	0.161	4.1	.....	Dr. T. Stanecki.
Pola	29.97	761.3	30.08	764.1	59.0	15.0	33	e.	.....	.....	4	.....	0	.....	.....	c	0	.....	I. R. Hydrographic Office.
Szathmar	29.60	751.8	30.06	763.6	47.5	8.6	46	ne.	.....	.....	2	.....	7	.....	.....	0	0	.....	Joseph Midlinszky, S. J.
Szegedin	29.80	757.0	30.09	764.2	49.3	9.6	42	e.	.....	.....	3	.....	5	.....	.....	0	0	.....	Karl Stancel.
Trieste	30.00	761.9	30.10	764.5	60.8	16.0	22	e.	.....	.....	1	.....	0	.....	.....	0	0	.....	Rieder.
Vienna	29.50	749.4	30.24	768.0	47.8	8.8	38	nnw.	.....	.....	2	.....	10	.....	.....	0	0	.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	30.48	774.2	30.58	776.7	45.0	7.2	71	se.	7	3.1	.....	.....	0	.....	.....	0	0	blue sky	W. Boswell.
Armagh, Observatory	30.22	767.6	30.47	773.9	53.0	11.7	45	e.	14	6.3	.....	.....	0	.....	.....	.....	.....	blue sky	S. Call.
Bidston, Liverpool Obs'y	.....	.....	30.43	772.9	54.9	12.7	53	ene.	18	8.0	.....	.....	0	.....	.....	.....	.....	misty	John Hartnup.
Bolton, Sharples	29.89	759.2	30.44	773.2	55.2	12.9	42	e.	13	5.8	.....	.....	0	.....	.....	.....	.....	blue sky	Thomas Mackereth. [A.S.
Bradford, Yorkshire	30.10	764.5	30.50	774.7	58.0	14.4	67	e.	.....	.....	1	.....	0	.....	.....	0	0	blue sky	J. McLandsborough, F. R
Bridgetown, Barbadoes	29.90	759.4	29.93	760.2	80.0	26.7	74	ne.	.....	.....	1	.....	8	.....	.....	.....	.....	raining	Corpl. J. Surgenor, A. H.C.
Cardington	.....	.....	30.38	771.6	58.0	14.4	60	e.	.....	.....	1.0	.....	0	.....	.....	.....	.....	blue sky	John McLaren.
Chatham, School M. E.	30.24	768.1	30.37	771.4	53.3	11.8	75	ne.	.....	.....	3	.....	0	.....	.....	.....	.....	misty	Lance Opl. G.A. Pickles.
Falmouth, Observatory	30.06	763.5	30.29	769.4	52.1	11.2	69	e.	.....	.....	3	.....	0	.....	.....	.....	.....	foggy	The Staff.
Fort Napier, Natal	27.75	704.8	29.97	761.2	67.0	19.4	54	se.	.....	.....	3	.....	7	.....	.....	.....	.....	overcast	Pvt. E. K Annis, A.H.C.
Free Town, Sierra Leone	29.58	751.3	29.81	757.2	88.0	31.1	62	sw.	.....	.....	1	.....	3	.....	.....	.....	.....	blue sky	Sergt. John Robinson.
Gibraltar, Mediterranean	29.93	760.7	30.00	762.0	66.4	19.1	78	sw.	.....	.....	4	.....	5	.....	.....	.....	.....	blue sky	Opl. O. Baldwin.
Glasgow, Observatory	30.32	770.1	30.53	775.4	52.4	11.3	51	e.	.....	.....	3	.....	0	.....	.....	.....	.....	blue sky	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	30.17	766.3	30.34	770.6	59.9	15.5	59	ene.	.....	.....	4	.....	0	.....	.....	.....	.....	blue sky	The Staff.
Guernsey	29.94	760.5	30.24	768.1	53.0	11.7	79	ne.	.....	.....	1	1 c	0	.....	.....	.....	.....	blue sky	A. Collenette, F. M. S.
Kew, Observatory	30.32	770.1	30.35	770.9	57.1	13.9	36	ene.	25	11.2	.....	.....	0	.....	.....	.....	.....	misty	The Staff.
Leicester, Museum	30.14	765.5	30.39	771.9	57.2	14.0	51	ne.	.....	.....	2	.....	0	.....	.....	.....	.....	blue sky	J. O. Smith.
Malta, Mediterranean	29.74	755.4	29.82	757.4	57.0	13.9	93	e.	.....	.....	5	.....	8	.....	.....	.....	.....	overcast	I. H. Whysall.
Nassau, Bahamas	30.16	766.1	30.20	767.1	76.0	24.4	72	se.	.....	.....	1	.....	7	.....	.....	.....	.....	d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.88	758.9	30.40	772.1	58.3	14.6	53	nne.	.....	.....	1	.....	0	.....	.....	.....	.....	blue sky	John Mac Email.
Oxford, Radcliffe Obs'y	30.13	765.3	30.36	771.1	57.6	14.2	44	ene.	.....	.....	4	.....	0	.....	.....	.....	.....	blue sky	The Staff.
Plymouth	30.19	766.8	30.26	768.6	57.5	14.2	51	ene.	.....	.....	5	.....	0	.....	.....	.....	.....	blue sky	John Merrifield.
Sandwick Manse, Orkneys	.....	.....	30.57	776.5	47.3	8.5	69	se.	16	7.2	.....	.....	1	.....	.....	.....	.....	blue sky	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	30.00	762.0	30.07	763.8	58.2	14.6	40	sw.	.....	.....	2	.....	1	.....	.....	.....	.....	blue sky	W. H. Lyne.
Sheffield	30.11	764.8	30.46	773.7	54.4	12.4	55	ne.	.....	.....	1	.....	0	.....	.....	0	0	blue sky	W. F. Cooper.
Silloth Rectory	30.45	773.4	30.48	774.2	55.8	13.2	48	ene.	.....	.....	4	.....	0	.....	.....	0	0	blue sky	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	30.46	773.7	54.0	12.2	48	ne	11	4.9	.....	.....	0	.....	.....	.....	.....	blue sky	Rev. S. J. Perry.
Stratfield Turgiss	30.11	764.8	30.33	770.4	60.6	15.9	37	e.	.....	.....	2	.....	0	.....	.....	.....	.....	blue sky	Rev. O. H. Griffiths, F.M.S.
Truro, Royal Institution	30.24	768.1	30.27	768.8	63	17.2	52	e.	.....	.....	6	.....	0	.....	.....	.....	.....	blue sky	W. Newcombe.
Valencia, Observatory	30.28	769.1	30.30	769.6	57.5	14.2	54	e.	15	6.7	.....	.....	1	.....	.....	.....	.....	misty	The Met'g'l Office.
Canadian.																			
Bathurst, N. B	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.92	760.0	29.97	761.2	28	— 2.2	92	s.	1	0.4	.....	.....	10 n	.....	.....	0.070	1.8	light snow	H. J. Cundall, C. E.
Chatham, N. B*	29.93	760.2	29.99	761.7	29	— 1.7	88	se.	2	0.9	.....	.....	10 ks	.....	se.	0.10	2.5	cloudy	G. A. Blair.
Father Point, Quebec*	30.04	763.0	30.06	763.5	32	0.0	92	nw.	15	6.7	.....	.....	10 k	.....	calm	0.02	0.5	cloudy	J. McWilliams.
Fort Garry, Manitoba*	29.40	746.7	30.25	768.3	36	2.2	79	e.	8	3.6	.....	4 k	4 ks	s.	s.	0	0	cloudy	James Stewart.
Halifax, N. S*	29.86	758.4	30.00	762.0	30	— 1.1	88	n.	4	1.8	.....	.....	10 s	.....	.....	0.340	8.6	cloudy	A. Allison.
Kingston, Ontario*	29.95	760.7	30.30	769.6	36	2.2	79	n.	8	3.6	.....	8 cs	2 k	.....	n.	0	0	fair	A. P. Knight, M. A.
Montreal, Quebec*	30.05	763.3	30.26	768.6	37	2.8	66	n.	2	0.9	.....	0	5 ks	.....	n.	0.02	0.5	fair	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.65	753.1	30.37	771.4	34	1.1	79	ne.	7	3.1	.....	0	0	.....	.....	inap.	inap.	clear	Rev. R. Mosley.
Port Dover, Ontario	29.55	750.6	30.26	768.6	42	5.6	93	ne.	11	4.9	.....	.....	10 ks	.....	.....	0	0	cloudy	H. Morgan.
Port Stanley, Ontario	29.58	751.3	30.24	768.1	42	5.6	82	ne.	6	2.7	.....	.....	10 n	.....	e.	0	0	cloudy	M. Payne.
Quebec, Quebec*	29.86	758.4	30.19	766.8	34	1.1	78	n.	.....	.....	1	0	5 s	.....	n.	0.15	3.8	fair	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.87	758.7	30.34	770.6	35	1.7	79	calm	0	c	.....	8 c	0	nw.	.....	inap.	inap.	fair	W. H. McIntyre.
Saugeen, Ontario*	29.56	750.8	30.30	769.6	35	1.7	85	ne.	9	4.0	.....	2 cs	0	.....	.....	0	0	clear	
St. Andrews, N. B	29.96	761.0	30.02	762.5	33	0.6	94	n.	3	1.3	.....	.....	10 n	.....	.....	0.13	3.3	cloudy	
Sydney, C. B*	29.95	760.7	30.01	762.2	24	— 4.4	80	e.	4	1.8	.....	10 cs	0	.....	.....	0	0	cloudy	T. C. Hill, C. E.
Toronto, Ontario*	29.93	760.2	30.32	770.1	41	5.0	73	n.	8	3.6	.....	.....	10 ks	.....	w.	0	0	cloudy	Magnetic Observatory.
Yarmouth, N. S*	29.91	759.7	29.98	761.5	32	0.0	88	ne.	2	0.9	.....	.....	10 k	.....	ne.	0.13	3.3	cloudy	Lt. F. E. Wilmot, R. N.
Sub-series.																			
St. Johns, Newfoundland	29.87	758.7	30.14	765.5	22	— 5.6	.....	w.	2	0.9	.....	0	0	.....	.....	0	0	fair	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.11	764.8	30.14	765.5	66.0	18.9	83	ne.	10.3	4.6	.....	0	8 ks	.....	.....	0	0	hazy	John Duthie.
Cape Town, C. G. H. Obs'y	29.97	761.2	30.00	762.0	80.1	26.7	37	.....	.....	.....	.....	0	0	.....	.....	0	0	.....	The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Chinese (*Sub-series*).																			
Hankow	29.85	758.2	30.04	763.0	53.7	12.1	94	se.			4		10			0	0		N. Titoushkin.
Zi-Ka-Wei, near Shanghai	30.03	762.8	30.06	763.4	50.0	10.0	95	se.	8.3	3.7			10 n			0.028	0.7	raining	M. Marc Dechevrens, S.J
Danish.																			
Copenhagen	30.39	772.0	30.44	773.2	49.3	9.6	67	se.	9	4			5						Oversergent Fischer.
Fanöe	30.43	772.9	30.45	773.4	54.1	12.3	52	e.			4		0						Overlooerer Lauridsen.
Godthaab, Greenland	30.26	768.6	30.30	769.7	13.8	—10.1	87	nne.			3		6						S. Kleinschmidt.
Stykkisholm, Iceland	30.11	764.8	30.15	765.9	46.0	7.8	81	s.			7		8						A. O. Thorlacius.
Thorshavn	30.52	775.3	30.56	776.2	48.9	9.4	78	w.	9	4			2						Overlooerer Bergh.
Vestervig	30.37	771.3	30.46	773.6	52.2	11.2	49	ne.			2		0						Loearer Oesterbol.
French.																			
Agen, Normal School	29.40	746.8	30.06	763.4	58.3	14.6	60	calm			0		0			0	0	clear	M. Labroue, Director.
Alençon, Normal School	29.64	752.9	30.19	766.9	60.8	16	50	ne.			4			n.	n.	0	0		M. Nicot, Director.
Arras, Engineer School	29.95	760.8	30.21	767.3	59.4	15.2	41	nne.			2					0	0		Capt. Bertrand, Dir.
Avignon, Normal School	29.95	760.6	30.02	762.6	65.5	18.6	50	n.			1		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.57	751.1	30.12	765.0	62.2	16.8	27	se.			1		0			0	0	clear	M. Saillard, Director.
Beauvais, Normal School	29.97	761.2	30.24	768.0	57.2	14	44	e.			1		0			0	0	clear	M. Frère Eugène Marl.
Besançon, Normal School	29.09	738.9	29.96	761.0	52.9	11.6	78	ne.			3	0	1 cn		nw.	0	0	clear	M. Gobin, Director.
Bordeaux, Observatory	29.80	757.0	30.06	763.5	64.8	18.2	57	n.			1		5			0	0	cloudy	M. Rayet, Director.
Bourges, Normal School	29.56	750.9	30.11	764.9	60.8	16	32	ne.			1					0	0		M. Postel, Director.
Brest, Naval Observatory	29.94	760.5	30.18	766.6	63.0	17.2	52	ne.			2		0			0	0		M. de Kermaree, Dir.
Caen, Normal School	30.12	765.1	30.20	767.0	55.0	12.8	86	ne.			1		0			0	0	clear	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.76	756.0	30.08	764.0	64.4	18.0	47	calm			0		0			0	0	clear	M. Jadot, Director.
Charleville, Normal School																			M. Grimard, Director.
Clermont-Ferrand Obs'y	28.69	728.8	30.03	762.7	62.6	17.0	35	nne.			2		0			0.205	5.2	clear	M. Alluard, Director.
Cluny, Normal School	29.20	741.6	30.04	763.1	61.7	16.5	44	n.			3					0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.32	744.8	30.20	767.0	57.7	14.3	30	e.			3	0	0			0	0	clear	Dr. Coulet, Director.
Gap, Normal School	27.45	697.3	29.95	760.8	62.6	17	10	n.			2					0	0		M. Jeangirard, Director.
Gréasque, du. Rhone	28.89	733.7	30.00	762.0	61.3	16.3	32	ne.			2		7		ne.	0	0		M. Kina, Director.
Grenoble, Normal School	29.22	742.1	29.97	761.3	63.7	17.6	26	nw.			1		0			0	0	clear	M. Ablard, Director.
Gnéret, Normal School	28.51	724.1	30.08	763.9	61.7	16.5	47	ne.			2		cn		ne.	0.220	5.6		M. Rivoire, Director.
Lamballe, Normal School	29.96	761.0	30.23	767.8	63.7	17.6	51	nne.			2		1		nne.	0	0	clear	M. Ollitrault, Director.
Lescar, Normal School	29.48	748.9	30.04	763.1	65.1	18.4	55	ese.			3		0			0	0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	30.07	763.7	30.17	766.3	68.9	20.5	47	ne.			1		0			0	0	clear	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.99	736.4	30.04	762.9	61.0	16.1	39	nne.			1	0	0			0	0	clear	M. André, Director.
Mans, Normal School	29.87	758.7	30.18	766.5	63.5	17.5	98	ne.			4		0			0	0	clear	M. Piboen, Director.
Marseille, Observatory	29.73	755.2	30.00	762.0	66.0	18.9	55	w.			2		6		nne.	0	0		M. Stephan, Director.
Montlouis l'Instituteur	24.81	630.1	29.65	753.1	42.8	6.0	36	ne.	3.8	1.7			0						M. Cave, for Dr. Fines.
Montpellier, Normal School	29.87	758.8	30.01	762.2	66.2	19	44	ne.			2		2		e.	0	0	slightly cld'y	M. Galzin, Director.
Nancy, Normal School	29.34	745.2	30.12	765.0	57.6	14.2	52	ne.			2	0	0			0	0	clear	M. Hasse, Director
Nantes, Observatory	30.00	762.1	30.17	766.2	67.3	19.6	43	ne.			1–2	0	0			0	0	clear	M. Larocque, Director.
Perpignan, Observatory	29.94	760.5	30.05	763.3	62.8	17.1	36	se.	3.8	1.7			2		ne.; sw	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.15	537.2			23.9	— 4.5		ne.			2		1		ne.	0	0	clear	Gen'l de Nansouty, Dir.
Privas, Normal School	28.95	735.4	30.00	762.0	62.6	17	61	s.			1		0			0	0	clear	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.18	639 5			40.5	4.7	47	nne.			3		0			0.059	1.5	clear	M. Alluard, Director.
Rochefort, Naval Obs'y	30.09	764.3	30.12	765.1	68.7	20.4	100	nne.			1		0			0	0	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.87	758.7	30.09	764.2	67.6	19.8	51	e.			1		0			0	0	clear	M. Mouillot, Director.
Rodez, Normal School	27.88	708.2	30.00	761.9	60.8	16	50	n.			1		0			0	0	clear	M. Serger, Director.
Rouen, Normal School	30.19	766.7	30.23	767.9	61.5	16.4	47	ene.			3		0			0	0	clear	M. Brotier.
Saint Maur, Observatory	30.02	762.6	30.19	766.8	61.0	16.1	32	ne.			2		0			0	0		M. Renou, Director.
Toulouse, Observatory	29.39	746.6	30.12	765.0	63.1	17.3	62	nnw.			1		1	w.		0	0	clear	M. Baillaud, Director.
Versailles, Observatory	29.78	756.3	30.27	768.8	59.7	15.4	27	e.			3					0	0		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.91	759.6	30.20	767.0	61.0	16.1	31	ne.			2		0			0	0		M. Marié Davy, Director
German.																			
Bamberg	29.40	746.8	30.26	768.6	53.6	12.0	30	ne.			4	0	3 k		ne.	0	0		Prof. Dr. Hoh.
Berlin	30.15	765.8	30.33	770.3	53.2	11.8	30	n.			1		7			0	0		Prof. Dr. Arndt.
Breslau	29.76	755.8	30.29	769.4	47.8	8.8	45	ne.			2		8			0	0		Royal University Obs'y.
Carlsruhe	29.77	756.2	30.21	767.4	56.8	13.8	27	ne.			2		0			0	0		Albert Senz.
Cassel	29.57	751.0	30.28	769.1	56.1	13.4	35	n.			2		1	n.		0	0		Dr. H. Möhl.
Frankfort on the Main	29.88	759.0	30.25	768.3	57.7	14.3	33	ne.			2		0			0	0		Physical Society.
Friedrichshafen	28.67	728.2	30.11	764.7	55.8	13.2	35	ne.			6		0			0	0		Wilhelm, Chief Tel.
Hamburg	30.32	770.0	30.41	772.4	51.8	11.0	52	ne.			3		0			0	0		E. Preller.
Kiel	30.41	772.3	30.42	772.7	47.1	8.4	57	e.			3		0			0.008	0.2		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.89	759.3	30.32	770.2	50.7	10.4	35	ne.			3		2			0	0		H. Leppig, Asst.
Magdeburg	30.14	765.6	30.34	770.6	53.4	11.9	39	ne.			1	0	0			0	0		Dr. Assmann.
Memel	30.42	772.7	30.47	773.9	46.4	8.0	54	e.			3	0	9 ks						Issermann.
Munich	28.35	720.1	30.22	767.7	48.7	9.3	34	ne.			3		1	e.		0	0		Central Station.
Neufahrwasser	30.39	772.0	30.41	772.4	43.5	6.4	72	ne.			3		10	nne.		0	0		A. Lothes.
Neustadt, Palatinate	29.67	753.7	30.21	767.2	57.2	14.0	35	ene.			4		4			0	0		Dicknether.
Stuttgart	29.21	741.9	30.10	764.6	56.3	13.5	34	n.			2		0			0	0		Prof. Dr. Schoder.
Wustrow	30.42	772.7	30.45	773.4	45.0	7.2	70	ene.			2	0	0			0	0		Profs. Brandes & Reimer.
Greek.																			
Athens	29.69	754.0	30.08	764.0	54.7	12.6		ne.			1.0	7				0	0		Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.77	756.1	29.82	757.4	82.8	28.2	63	wsw.	31.0	13.8			0			0	0	misty	
Deesa	29.26	743.3	29.72	754.9	96.1	35.6	17	wsw.	11.6	5.2			1		w.	0	0	d. clouds	
Bombay	29.76	756.0	29.80	757.0	82.6	28.1	78	nw.	20.0	8.9			0			0	0	blue sky	
Poona, Yarrowda	27.90	708.6	29.69	754.0	96.8	36.0	13	w.	24.0	10.7			3	sw.		0	0	d. clouds	
Belgaum	27.27	692.6	29.76	756.0	83.4	28.6	56	w.	12.0	5.4			4	ne.		0.56	14.2	showery	
Lahore	28.88	733.6	29.63	752.7	71.8	22.1	67	n.	4.9	2.2			8			0.08	2.0	gloomy	
Roorkee	28.77	730.7	29.64	752.9	90.2	32.3	29	s.	3.8	1.7			7			0.08	2.0	thund'r st'm	
Agra	29.11	739.5	29.66	753.3	96.1	35.6	23	s.	6.5	2.9			3		sw.	0	0		
Nagpur	28.65	727.8	29.65	753.1	101.7	38.7	14	w.	3.4	1.5			3		w.	0	0	d. clouds	
Jubbulpore	28.38	720.7	29.68	753.9	98.7	37.1	14	w.	2.7	1.2			3			0	0	d. clouds	
Lucknow	29.33	745.0	29.70	754.3	99.4	37.4	26	sw.	2.1	0.9			0			0	0	blue sky	
Allahabad	29.36	745.8	29.67	753.5	95.7	35.4	27	calm	2.4	1.1			0			0	0	blue sky	
Patna	29.52	749.9	29.70	754.4	94.3	34.6	23	nw.	4.2	1.9			0			0	0	blue sky	
Hazaribagh	27.72	704.0	29.67	753.7	89.8	32.1	15	n.	6.2	2.8			0			0	0	overcast	
Cuttack	29.64	753.0	29.73	755.0	87.2	30.7	66	s.	7.1	3.2			10			0	0	blue sky	
Calcutta, Alipore	29.75	755.5	29.77	756.1	82.4	28.0	75	sw.	14.0	6.3			0			0	0		
Dhubri	29.66	753.4	29.78	756.4	71.7	22.1	85	ene.	13.2	5.9			10		nw.			thund'r st'm	
Chittagong	29.75	755.7	29.84	758.0	80.9	27.2	78	sw.	6.5	2.9			6		w.	0.51	13.0	gloomy	
Sibsagar	29.55	750.4	29.89	759.2	67.4	19.7	84	ne.	7.7	3.4			8			0	0	d. clouds	
Jeypore	28.25	717.4	29.64	753.0	93.7	34.3	12	wnw.	7.8	3.5			10	w.	w.	0.50	12.7	overcast	
Zanzibar, Africa	29.84	757.9			84.5	29.2	76	nw.	5.4	2.4			2		w.	0	0	d. clouds	
Bellary	28.28	718.3			99.8	37.7	19	se.	3.3	1.5			7		se.	0	0	d. clouds	
Trichinopoly	29.53	750.0			97.5	36.4	26	ese.	2	0.9		4 c	0			0	0	d. clouds	
Italian.																			
Udine	29.69	754.1	30.10	764.5	60.4	15.8	19	sw.	1.8	0.8			3			0	0		
Milan	29.55	750.6	30.07	763.7	61.2	16.2	41	se.	6.3	2.8			0			0	0		Prof. Giovanni Clodig.
Padua	29.98	761.6	30.10	764.4	59.4	15.2	31	ese.	6.3	2.8			0			0	0		Prof. Schiaparelli.
Moncalieri	29.13	740.0	30.04	762.9	59.4	15.2	35	s.	1.8	0.8			0			0	0		Prof. Dott. Lorenzoni.
Genoa	29.84	758.0	30.03	762.8	60.8	16.0	41	sw.	5.6	2.5			0			0	0		Prof. P. F. Denza.
Mondovi	28.11	713.9	30.03	762.7	57.0	13.9	32	ne.			4		0			0	0		Prof. G. M. Garibaldi.
																			Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
ITALIAN.—Continued.																			
Pesaro	30.03	762.8	30.08	764.0	48.2	9.0	67	n.	9.4	4.2	.....	.....	0	.....	.....	0	0	.....	Prof. Luigi Guidi.
Florence	29.76	755.9	30.01	762.3	64.4	18.0	15	ne.	.....	.....	4	.....	0	.....	.....	0	0	.....	Prof. Costantino Pitter.
Leghorn	29.85	758.2	29.94	760.4	63.1	17.3	21	e.	4.3	1.9	.....	.....	3	.....	.....	0	0	.....	Prof. P. Monte.
Rome	29.82	757.4	29.99	761.8	61.2	16.2	21	nnw.	0	0	.....	.....	7	.....	.....	0	0	.....	Prof. P. S. Ferrari.
Lecce	29.76	755.8	30.01	762.2	59.5	15.3	47	ene.	11.2	5.0	.....	.....	5	.....	.....	0	0	.....	Prof. C. de Giorgi.
Cosenza	29.09	738.9	29.98	761.5	54.0	12.2	70	nnw.	5.6	2.5	.....	.....	9	nw.	.....	0	0	.....	Prof. D. Conti.
Cagliari	29.67	753.7	29.87	758.6	60.1	15.6	76	ese.	.....	.....	2	.....	10	.....	.....	0.551	14.0	.....	Prof. A. Pacinotti.
Palermo	29.71	754.6	29.96	760.9	58.5	14.7	64	ne.	2.5	1.1	.....	.....	10	.....	.....	0.720	18.3	.....	Prof. G. Ciaccíatore.
Syracuse	29.87	758.7	29.91	759.8	54.7	12.6	66	ese.	22.4	10.0	.....	.....	10	ene.	.....	0.413	10.5	.....	Prof. Vincenzo Guiliano.
Sub-series.																			
Naples, S. It	29.45	747.9	29.97	761.2	59.0	15.0	53	se.	2.5	1.1	.....	.....	9	sse.	.....	0	0	.....	Prof. T. Brioschi.
Stelvio	22.13	562.1	.....	.....	32.7	0.4	36	ne.	.....	.....	2	.....	0	.....	.....	0	0	clear	Prof. P. F. Denza.
Valdobbia	22.17	563.2	.....	.....	35.1	1.7	42	e.	.....	.....	2	.....	1	.....	.....	0	0	clear	Prof. P. F. Denza.
JAPANESE.																			
Aomori	30.08	764.0	30.11	764.8	43.0	6.1	81	n.	1.3	0.6	.....	0	3 s	.....	.....	0.056	1.4	fair	K. Ogawa.
Hakodate	30.09	764.3	30.10	764.5	41.0	5.0	77	e.	4.8	2.1	.....	.....	7	.....	.....	0	0	cloudy	
Hiroshima, I. M. Obs'y. †	29.95	760.7	29.97	761.2	51.3	10.7	98	nne	6.6	2.9	.....	.....	10 n	.....	.....	0.645	16.4	raining	K. Sasaki.
Kanazawa	29.92	759.9	30.02	762.5	53.9	12.2	74	se.	3.4	1.5	.....	.....	10 n	.....	.....	0.500	12.7	raining	S. Endo.
Kioto	29.93	760.2	30.10	764.5	55.0	12.8	86	se.	3.6	1.6	.....	.....	10 n	.....	.....	0.140	3.6	light rain	M. Tojima.
Kochi	30.08	764.0	30.10	764.5	52.6	11.4	94	nw.	4.5	2.0	.....	.....	10 n	.....	.....	0.460	11.7	light rain	
Nagasaki, I. M. Obs'y	29.81	757.2	30.01	762.2	60.1	15.6	93	wsw.	7.5	3.3	.....	.....	10 s	.....	.....	0.440	11.2	gloomy	S. Takehayashi.
Niigata	30.01	762.2	30.05	763.3	58.0	14.4	66	se.	10.1	4.5	.....	10 ck	0	.....	.....	0.175	4.4	overcast	
Nobiru	30.13	765.3	30.15	765.8	51.7	10.9	81	s.	26.5	11.8	.....	.....	10 s	.....	.....	0.480	12.2	.....	H. Midzushina.
Supporo	.....	.....	.....	.....	41.9	5.5	74	se.	18.0	8.0	.....	.....	7	.....	.....	0	0	overcast	
Tokei Obs'y, Yeddo	30.11	764.8	30.18	766.6	53.9	12.2	99	s.	2.5	1.1	.....	.....	10 n	.....	.....	0.090	2.3	raining	The Staff.
Wakayama	30.01	762.2	30.06	763.5	59.2	15.1	68	s.	5.8	2.6	.....	.....	10 n	.....	s.	0.045	1.1	raining	Y. Kuwamura.
MAURITIUS.																			
Mauritius Observatory	29.68	753.9	29.86	758.4	79.3	26.3	69	ese.	9.0	4.0	.....	0	2 k;ks	.....	.....	0.25	6.3	clear	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.71	602.3	29.93	760.3	63.5	17.5	53	se.	.....	.....	.....	0	7 p	.....	.....	0	0	fair	Vicente Fernandez.
Leon	24.37	619.0	30.04	763.0	58.3	14.6	67	n.	.....	.....	1	9 c	a	s.	.....	0	0	cloudy	Prof. M. Leal.
Mazatlan	29.71	754.7	29.98	761.4	62.5	16.9	69	n;nw.	1.6	0.8	.....	4 cs	0	sw.	.....	0	0	fair	F. Quijano, U. E.
Mexico, Central Obs'y	23.14	587.7	30.23	767.8	54.0	12.2	73	calm	0	0	.....	10 c	0	.....	.....	inap.	inap.	covered	The Staff.
Morelia	24.14	613.1	30.20	768.5	56.7	13.7	64	se.	.....	.....	3	0	0	.....	.....	0	0	.....	M. Tena, M. D.
Pabellon, Aguascallentes	23.93	607.9	29.96	761.0	56.1	13.4	49	calm	0	0	.....	2 cs	0	ssw.	.....	0	0	clear	M. V. de Leon, M. E.
Puebla, Catholic Institute	23.42	594.8	30.19	766.8	52.7	11.5	68	calm	0	0	.....	0	0	.....	.....	0.091	2.3	clear	Prof. P. Spina.
San Luis Potosi	24.23	615.4	30.06	763.4	60.6	15.8	52	wsw.	.....	.....	1	3	2	w.	w.	0	0	¼ clouded	G. Barroeta, M. D.
Zacatecas	22.55	572.7	30.19	766.8	53.5	12.0	43	.....	.....	.....	.....	0	0	.....	.....	0	0	fine	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.35	770.8	30.35	770.8	55.4	13.0	.....	ene.	.....	.....	4	.....	.....	.....	.....	0	0	.....	
Groningen	30.34	770.7	30.40	772.1	52.5	11.4	.....	n.	.....	.....	2	.....	.....	.....	.....	0	0	.....	
Helder	30.41	772.5	30.41	772.5	48.6	9.2	.....	ne.	.....	.....	2	.....	.....	.....	.....	0	0	.....	
Hellevoetsluis	30.34	770.7	30.34	770.7	56.1	13.4	43	e.	.....	.....	3	.....	.....	.....	.....	0	0	.....	
Utrecht	30.28	769.2	30.37	771.4	58.8	14.9	40	ene.	.....	.....	4	.....	.....	.....	.....	0	0	clear	H. van der Brink.
NORWEGIAN.																			
Bergen	30.43	772.8	30.49	774.4	49.3	9.6	44	nw.	9	4	.....	.....	0	.....	.....	0	0	.....	
Brono	30.49	774.5	30.53	775.5	42.8	6.0	78	sw.	18	8	.....	.....	10	.....	.....	0	0	.....	
Christiania	30.35	770.9	30.50	774.7	53.1	11.7	39	e.	7	3	.....	.....	2	.....	.....	0	0	.....	
Gjesvser	29.89	759.1	29.91	759.7	40.5	4.7	.....	sw.	.....	.....	7	.....	10	.....	.....	.....	.....	raining	
Lodingen	30.24	768.1	30.29	769.3	38.7	3.7	97	sw.	.....	.....	7	.....	10	.....	.....	.....	.....	.....	
PORTUGUESE.																			
Angra, Azores	.....	.....	.....	.....	61.5	16.4	87	se.	18.6	8.3	.....	.....	8	.....	.....	0	0	.....	Dr. J. A. Sampaio.
Campo Major	28.95	735.4	29.94	760.5	64.8	18.2	41	ene.	8.7	3.9	.....	.....	3	.....	.....	0	0	.....	Dr. A. M. R. dos Santos.
Funchal, Maderia	30.00	762.1	30.09	764.3	61.7	16.5	60	ese.	.....	.....	.....	.....	10	.....	.....	0	0	.....	Capt. D. A. de Cunha.
Lisbon, Observatory	29.66	753.3	30.02	762.4	63.1	17.3	48	nne.	9.8	4.4	.....	.....	1	.....	.....	0	0	.....	The Staff.
Ponta Delgada, Azores	29.82	757.5	29.89	759.3	67.6	19.8	72	s.	10.5	4.7	.....	.....	3	.....	.....	0.024	0.6	.....	
Saint Paul de Loando	29.69	754.2	29.89	759.2	82.8	28.2	78	w.	1.3	0.6	.....	.....	3	sse.	.....	0	0	.....	
Serra da Estrella	25.24	641.1	29.97	761.2	47.5	8.6	61	ese.	11.9	5.3	.....	.....	3	.....	.....	0	0	.....	
RUSSIAN.																			
Akmolinski	29.23	742.5	30.41	772.5	12.0	—11.1	72	ne.	11	5	.....	0	0	.....	.....	0	0	.....	Major K. Lasarew.
Archangel	30.27	768.8	30.29	769.3	39.0	3.9	78	w.	9	4	.....	0	6 ks	.....	.....	0	0	.....	Capt. Sseliwerstow.
Astrakhan	30.19	766.9	30.11	764.8	31.5	— 0.3	100	ene.	13	6	.....	.....	10 n	.....	.....	0.571	14.5	heavy cl'ds.	Capt. Wisganow.
Barnaul	29.90	759.5	30.45	773.4	14.2	— 9.9	51	n.	4	2	.....	.....	0	.....	.....	0	0	.....	Meteorological Obs'y.
Dorpat	30.31	769.9	30.56	776.3	44.6	7.0	47	ese.	4	2	.....	.....	10 k	.....	.....	0	0	.....	Observatory.
Ekaterinburg	29.27	743.5	30.28	769.1	34.0	1.1	28	wsw.	18	8	.....	.....	2	.....	.....	0.012	0.3	.....	Meteorological Obs'y.
Kasan	30.26	768.6	30.55	775.9	28.9	— 1.7	56	sw.	2	1	.....	.....	0	.....	.....	0	0	.....	Observatory.
Kertch	30.17	766.3	30.19	766.8	40.5	4.7	59	se.	2	1	.....	0	4 k	.....	.....	0	0	.....	Lagorio & Sastyrex.
Kieff	29.53	750.1	30.20	767.1	32.2	0.1	87	ene.	7	3	.....	.....	10 k;n	.....	.....	0.024	0.6	snowing	Observatory.
Lugan	30.06	763.6	30.28	769.0	37.2	2.9	69	ene.	18	8	.....	.....	10	.....	.....	blank	blank	.....	Major Lasaren.
Moscow	29.98	761.5	30.49	774.4	34.2	1.2	44	sse.	4	2	.....	0	0	.....	.....	0	0	.....	Meteorological Obs'y
Nikolaiev	30.06	763.5	30.13	765.3	40.6	4.8	68	w.	4	2	.....	0	6 kn	.....	.....	0	0	.....	Meteorological Obs'y.
Nikolaievsk, on the Amoor	29.34	745.3	29.43	747.5	46.2	7.9	52	calm	0	0	.....	.....	10	.....	.....	0	0	.....	Capt. Kurdakow.
Pekin, China	29.63	752.5	29.77	756.1	60.4	15.8	55	calm	0	0	.....	3 cs	0	.....	.....	0	0	.....	Lieut. Iwanow.
St. Petersburg	30.55	775.9	30.56	776.3	43.5	6.4	40	wnw.	7	3	.....	.....	10 kn	.....	.....	0	0	.....	Physical Observatory
Seemipalatinsk	29.72	755.0	30.45	773.3	12.9	—10.6	57	n.	13	6	.....	0	0	.....	.....	0	0	.....	Central Physical Obs'y
Tashkend, Laboratory	28.39	721.0	29.96	761.0	54.1	12.3	68	calm	0	0	.....	.....	10	.....	.....	0	0	heavy cl'ds.	Major Lasaren.
Tiflis	28.59	726.2	30.05	763.2	41.7	5.4	37	nw.	45	20	.....	3 cs	0	.....	.....	0	0	.....	Teich, A. M.
Vladivostok	29.84	757.8	29.90	759.5	38.8	3.8	93	se.	9	4	.....	.....	10 k	.....	.....	0	0	.....	Physical Observatory
Warsaw	29.87	758 7	30.31	769.8	43.7	6.5	35	ene.	13	6	.....	.....	10 ks	.....	.....	.....	.....	.....	
Wilna	30.00	761.9	30.43	773.0	41.4	5.2	40	nne.	9	4	.....	.....	8	.....	.....	0	0	heavy cld's.	Astronomical Obs'y
Yeniseisk	30.08	764.0	30.39	771.9	15.8	— 9.0	52	w.	4	2	.....	.....	0	.....	.....	0	0	.....	Berg, Assistant.
SPANISH.																			M. O. Marks.
Barcelona, Met. Obs'y	29.88	758.9	29.98	761.6	59.0	15.	59	ne.	6.0	2.7	.....	1 c;ck	0	.....	.....	0.539	13.7	clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.01	762.2	30.07	763.7	68.2	20.1	52	nw.	2.5	1.1	.....	2	0	se.	.....	0	0	almost clear	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.08	687.8	30.03	762.7	57.2	14.0	53	ne.	8.7	3.9	.....	.....	4	.....	.....	0	0	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27.76	705.1	29.97	761.2	60.3	15.7	32	ne.	14.3	6.4	.....	0	5	.....	.....	0	0	cloudy	The Staff.
Murcia, Met. Obs'y	29.76	755.9	29.91	759.7	55.4	13.0	89	ene.	2.7	1.2	.....	5	5	sw.	.....	0.752	19.1	covered	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.08	738.7	29.96	760.9	68.4	20.2	51	calm	0	0	.....	.....	2	.....	.....	0	0	lightly cl'dy	R. Gil Vallanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I	29.99	761.7	30.05	763.3	72.6	22.6	83	e.	4.9	2.2	.....	0	0	.....	.....	0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.93	760.2	29.99	761.7	82.5	28.1	66	e.	2.9	1.3	.....	0	ks	.....	.....	0	0	clear	F. Faura, S. J.
San Fernando, Naval Obs'y	29.86	758.4	29.95	760.8	66.7	19.3	55	nw.	10.3	4.6	.....	0	5	.....	wnw.	0	0	.....	Cap't. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	29.95	760.6	30.04	763.1	76.3	24.6	94	e.	8.5	3.8	.....	6 s	5 k	e.	e.	0	0	cloudy	Manuel Maeu.
Tuguegarao, Philippine Id's	29.87	758.7	30.00	762.0	81.9	27.7	72	ene.	0.5	0.2	.....	0	0	.....	.....	0.01	0.3	clear	José L. Yrastorza.
SWEDISH																			
Haparanda	30.37	771.5	30.41	772.5	38.8	3.8	73	sw.	.....	.....	2	.....	0	.....	.....	0	0	.....	
Umea	30.42	772.7	30.47	774.0	53.2	11.8	67	w.	.....	.....	2	.....	0	.....	.....	0	0	.....	
Hernosand	30.47	773.8	30.52	775.1	50.2	10.1	49	calm	.....	.....	0	.....	3	.....	.....	0	0	.....	
Stockholm	30.34	770.5	30.51	775.0	47.8	8.8	41	e.	.....	.....	2	.....	0	.....	.....	0	0	.....	
Wisby	30.42	772 7	30.48	774.2	48.2	9.0	44	se.	.....	.....	2	.....	0	.....	.....	0	0	.....	
Sub-series.																			
Upsala	30.40	772.1	30.48	774.3	50.0	10.0	46	nne.	6.5	2.9	.....	.....	7	.....	e.	0	0	.....	S. G. Fineman.
SWISS.																			
Geneva	28.63	727.1	30.05	763.2	55.4	13.0	43	.....	.....	.....	.....	.....	.....	.....	.....	0	0	clear	The Observatory

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Velocity.		Force.	Clouds. Amount and kind.		Direction.		Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
												Upper.	Lower.	Upper.	Lower.				
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
TURKISH.																			
Constantinople	.....	.....	30.11	764.7	50.4	10.2	48	se.	7	3.0	.....	.....	0	.....	.....	0	0	.....	The Observatory.
Valona	.....	.....	30.01	762.2	59.4	15.2	.....	nw.	.....	.....	1	.....	5	.....	.....	0	0	cloudy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	30.06	763.6	60.6	15.9	62	n.	.....	.....	2	8 c	0	w.	.....	0	0	.....	Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	30.14	765.5	30.22	767.6	47.5	8.6	68	n.	4	1.8	.....	.....	10 s	.....	w.	inap.	inap.	cloudy	J. O. Barnes.
Alpena, Michigan	29.68	753.9	30.37	771.4	37	2.8	82	e.	10	4.5	.....	0	0	.....	.....	0	0	clear	Jas. J. Fitzgerald.
Atlanta, Georgia	28.94	735.1	30.13	765.3	65.0	18.3	90	se.	6	2.7	.....	.....	10 s	.....	calm	inap.	inap.	cloudy	H. Hall.
Atlantic City, New Jersey	30.11	764.8	30.12	765.0	49.5	9.7	86	ne.	8	3.6	.....	4 c	0	.....	.....	0	0	fair	Jas. M. Watson.
Augusta, Georgia	29.95	760.7	30.14	765.5	70	21.1	84	calm	0	0	.....	.....	10 s	.....	s.	0	0	cloudy	John Healy.
Baltimore, Maryland	30.13	765.3	30.18	766.6	57	13.9	69	ne.	3	1.3	.....	7 c;hz	0	w.	.....	0	0	fair	Robert Seyboth.
Barnegat, New Jersey	30.11	764.8	30.13	765.3	50.5	10.3	73	n.	18	8.0	.....	4 cs	0	w.	.....	0.03	0.8	fair	Chas. F. Merritt.
Bismarck, Dakota	28.04	712.2	29.91	759.7	38	3.3	82	e.	26	11.6	.....	.....	10 n	.....	e.	0.72	18.3	light rain	Cyrus Cramer.
Boise City, Idaho	27.08	687.8	29.92	760.0	39	3.9	73	se.	10	4.5	.....	0	0	.....	.....	0	0	clear	B. E. Light.
Boston, Massachusetts	29.98	761.5	30.14	765.5	45.0	7.2	68	nw.	10	4.5	.....	0	0	.....	.....	0.04	1.0	clear	O. B. Cole.
Brownsville, Texas	29.76	755.9	29.81	757.2	74.5	23.6	90	se.	8	3.6	.....	hz.	0	.....	.....	0	0	dense haze	J. C. Galloway.
Buffalo, New York	29.50	749.3	30.27	768.8	43	6.1	83	ne.	6	2.7	.....	.....	10 s	.....	ne.	0	0	cloudy	Wm. Finn.
Burlington, Vermont	29.94	760.5	30.24	768.1	37.0	2.8	82	n.	9	4.0	.....	.....	10 s	.....	n.	0.03	0.8	cloudy	G. C. Schaeffer.
Cairo, Illinois	29.63	752.6	30.04	763.0	63.6	17.6	91	e.	6	2.7	.....	.....	10 s	.....	se.	0.90	22.9	cloudy	W. H. Ray.
Campo, California	27.41	696.2	29.99	761.7	28.5	— 1.9	88	s.	2	0.9	.....	0	0	.....	.....	0	0	clear	W. H. Clendenon.
Camp Thomas, Arizona	27.23	691.6	29.96	761.0	33	0.6	85	calm	.....	.....	0	0	0	.....	.....	0	0	clear	J. T. Fitzgerald.
Cape Henry, Virginia	30.05	764.3	30.11	764.8	58	14.4	86	nw.	12	5.4	.....	1 ck	8 s	.....	.....	0	0	cloudy	J. E. Lanouette.
Cape May, New Jersey	30.08	764.0	30.11	764.8	56	13.3	69	ne.	14	6.3	.....	0	8 ks	.....	.....	0	0	cloudy	W. Bolten.
Cedar Keys, Florida	30.10	764.5	30.12	765.0	71	21.7	94	s.	4	1.8	.....	.....	10 n	.....	s.	1.22	31.0	heavy rain	F. W. Mixer.
Champaign, Illinois	29.21	741.9	30.05	763.3	56.2	13.4	83	e.	8	3.6	.....	.....	10 s	.....	se.	0	0	cloudy	L. A. Welsh.
Charleston, S. Carolina	30.08	764.0	30.14	765.5	70	21.1	90	calm	0	0	.....	.....	10 s	.....	calm	0.06	1.5	threatening	J. H. Smith.
Charlotte, N. Carolina	29.26	743.2	30.12	765.0	67.0	19.4	90	sw.	5	2.2	.....	.....	10 s	.....	sw.	0	0	cloudy	D. O. Donoghue.
Chattanooga, Tennessee	29.28	743.7	30.11	764.8	65.0	18.3	93	calm	0	0	.....	4 ck	fg.	sw.	.....	0.09	2.3	fair	B. L. Goulding.
Cheyenne, Wyoming	23.71	602.2	29.71	754.6	26.3	— 3.2	70	nw.	16	7.2	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	E. McGovern.
Chicago, Illinois	29.40	746.7	30.13	765.3	44.6	7.0	94	e.	10	4.5	.....	1 c	0	w.	.....	0	0	clear	J. Mitchell.
Chincoteague, Virginia	30.09	764.3	30.11	764.8	55	12.8	74	ne.	19	8.5	.....	3 c	0	n.	.....	inap.	inap.	clear	V. P. Temple.
Cincinnati, Ohio	29.45	748.0	30.12	765.0	59.8	15.4	78	e.	4	1.8	.....	.....	10 n	.....	se.	0.05	1.3	light rain	R. B. Watkins.
Cleveland, Ohio	29.47	748.5	30.23	767.8	43.8	6.6	85	ne.	6	2.7	.....	.....	10 s	.....	.....	0	0	cloudy	J. B. Newlin.
Coleman City, Texas	28.12	714.2	29.94	760.5	55	12.8	100	w.	2	0.9	.....	3 c	3 s	s.	.....	0.20	5.1	fair	L. Dorman.
Columbus, Ohio	29.28	743.7	30.15	765.8	52	11.1	72	ne.	7	3.1	.....	6 cs	c	.....	.....	0	0	fair	D. Cuthbertson.
Concho, Texas	28.10	713.7	30.04	763.0	50	10.0	86	calm	0	0	.....	0	0	.....	.....	0.15	3.8	clear	W. W. McConihe.
Davenport, Iowa	29.36	745.7	30.03	762.7	50	10.0	77	e.	10	4.5	.....	.....	10 ks	.....	se.	0	0	cloudy	R. R. Martin.
Dayton, Washington T'y	28.08	713.2	29.83	757.7	43	6.1	68	s.	8	3.6	.....	.....	10 s	.....	.....	0	0	cloudy	H. Clifford.
Deadwood, Dakota	25.16	639.1	29.85	758.2	28	— 2.2	100	sw.	2	0.9	.....	.....	10 n	.....	.....	0.09	2.3	light snow	G. W. Scott.
Decatur, Texas	.....	.....	.....	.....	65	18.3	78	sw.	5	2.2	.....	0	5 s	.....	sw.	1.36	34.5	fair	D. J. Carr.
Delaware Breakwater, Del.	30.12	765.0	30.14	765.5	49	9.4	93	ne.	10	4.5	.....	5cs;k	hz.	calm	.....	0	0	fair	A. Schneider.
Denison, Texas	29.06	738.1	29.86	758.4	61.3	16.3	93	sw.	6	2.7	.....	.....	10 s	.....	.....	0.26	6.6	cloudy	J. McGlone.
Denver, Colorado	24.40	619.7	29.67	753.6	33.5	0.8	87	se.	6	2.7	.....	0	4 s	.....	w.	0.17	4.3	fair	F. M. Neal.
Des Moines, Iowa	29.03	737.3	29.96	761.0	54	12.2	93	se.	7	3.1	.....	.....	10 n	.....	se.	0.21	5.3	heavy rain	F. W. Conrad.
Detroit, Michigan	29.52	749.8	30.25	768.3	43.9	6.6	83	ne.	10	4.5	.....	.....	10 s	.....	e.	0	0	cloudy	C. F. R. Wappenhans.
Dodge City, Kansas	27.05	687.1	29.69	754.1	39	3.9	82	sw.	4	1.8	.....	0	0	.....	.....	0.13	3.3	clear	E. A. Thomas.
Dubuque, Iowa	29.35	745.5	30.06	764.0	46.7	8.2	77	e.	7	3.1	.....	.....	10 s	.....	se.	0	0	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.52	749.8	30.24	768.1	37	2.8	82	ne.	18	8.0	.....	0	6 s	.....	ne.	0	0	fair	N. B. Conger.
Eagle Pass, Texas	29.16	740.7	29.97	761.2	64.0	17.8	68	ne.	4	1.8	.....	0	4 s	.....	.....	0	0	fair	F. Belford.
Eagle Rock, Idaho	25.27	641.8	29.99	761.7	33	0.6	81	w.	2	0.9	.....	.....	10 s	.....	w.	0	0	cloudy	J. M. Clifford.
Eastport, Maine	29.98	761.5	30.05	763.3	32.5	0.3	83	n.	12	5.4	.....	.....	10 s	.....	n.	0.18	4.6	cloudy	J. H. Melton.
El Paso, Texas	26.27	667.2	30.01	762.2	41	5.0	29	nw.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.50	749.3	30.25	768.3	42	5.6	92	ne.	12	5.4	.....	.....	10 s	.....	.....	0	0	cloudy	R. H. Paxton.
Escanaba, Michigan	29.63	752.6	30.32	770.1	34	1.1	78	n.	4	1.8	.....	0	0	.....	.....	0	0	clear	C. Dill.
Florence, Arizona	28.51	724.1	30.01	762.2	34.5	1.4	65	w.	1	0.4	.....	0	0	.....	.....	0	0	clear	R. R. Herman.
Fort Apache, Arizona	25.06	636.5	29.98	761.5	24	— 4.4	56	ne.	2	0.9	.....	0	0	.....	.....	0	0	clear	W. C. Barnes.
Fort Assinnaboine, Montana	27.27	692.6	30.17	766.3	30	— 1.1	81	ne.	8	3.6	.....	.....	10 s	.....	w.	0.04	1.0	cloudy	B. O. Lenoir.
Fort Bennett, Dakota	27.98	710.7	29.62	752.3	42	5.6	100	ne.	15	6.7	.....	.....	10 n	.....	.....	1.43	36.3	heavy rain	T. Gibson.
Fort Benton, Montana	27.29	693.2	30.15	765.8	31	— 0.6	88	ne.	1	0.4	.....	.....	10 s	.....	calm	0.02	0.5	cloudy	S. Wheaton.
Fort Buford, Dakota	28.02	711.7	30.09	764.3	33	0.6	81	e.	14	6.3	.....	.....	10 s	.....	calm	0.09	2.3	cloudy	A. H. Bell.
Fort Custer, Montana	26.76	679.7	29.94	760.5	32	0.0	88	n.	5	2.2	.....	.....	10 s	.....	calm	0.03	0.8	cloudy	V. Verge.
Fort Davis, Texas	25.09	637.3	29.88	758.9	39	3.9	45	s.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. Williams.
Fort Elliott, Texas	26.97	685.0	29.75	755.6	46	7.8	43	sw.	24	10.7	.....	0	0	.....	.....	0.02	0.5	clear	W. J. Cundall.
Fort Gibson, Indian T'y	29.27	743.4	29.85	758.2	63.3	17.4	90	s.	4	1.8	.....	10 cs	0	s.	.....	0.69	17.5	cloudy	J. B. Campbell.
Fort Grant, Arizona	25.23	640.8	29.96	761.0	34	1.1	43	se.	2	0.9	.....	0	0	.....	.....	0	0	clear	T. J. Macgowan.
Fort Griffin, Texas	28.62	726.9	29.92	760.0	54	12.2	43	sw.	5	2.2	.....	0	0	.....	.....	0	0	clear	G. H. Hayne.
Fort Keogh, Montana	27.48	698.0	30.02	762.5	32	0.0	88	nw.	12	5.4	.....	.....	10 n	.....	nw.	0.26	6.6	light snow	W. B. Stockman.
Fort Macon, North Carolina	30.12	765.0	30.13	765.3	64	17.8	93	w.	4	1.8	.....	8 k	2 s;hz	w.	w;c	0	0	cloudy	L. Leonardy.
Fort McKavett, Texas	27.70	703.6	29.96	761.0	55	12.8	74	sw.	4	1.8	.....	0	0	.....	.....	0.52	13.2	clear	J. E. Thatcher.
Fort Missoula, Montana	26.72	678.7	30.03	762.7	27	— 2.8	88	n.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. H. Jones.
Fort St. Michaels, Alaska	29.50	749.3	29.53	750.0	24	— 4.4	100	s.	10	4.5	.....	.....	10 s	.....	.....	0	0	cloudy	A. P. Leavitt.
Fort Shaw, Montana	26.42	671.1	30.09	764.3	15	— 9.4	83	w.	3	1.3	.....	0	0	.....	.....	0	0	clear	A. L. Mathews.
Fort Sill, Indian Territory	28.62	726.9	29.86	758.4	52.2	11.2	83	sw.	9	4.0	.....	0	0	.....	.....	0.25	6.3	clear	T. Cleary.
Fort Stevenson, Dakota	27.95	709.9	29.85	758.2	34	1.1	100	e.	13	5.8	.....	.....	10 s	.....	e.	0.64	16.3	cloudy	W. Burrows.
Fort Verde, Arizona	.....	.....	.....	.....	32.2	0.1	52	w.	.....	.....	I	0	0	.....	.....	0	0	clear	D. Brooks.
Fort Washakie, Wyoming	24.40	619.7	.....	.....	29.1	— 1.6	88	se.	13	5.8	.....	.....	10 s	.....	.....	0.10	2.5	threatening	T. M. Ambler.
Fredericksburg, Texas	28.17	715 5	29.89	759.2	61	16.1	84	nw.	4	1.8	.....	0	0	.....	.....	0.28	7.1	clear	H. S. Miles.
Galveston, Texas	29.88	758.9	29.92	760.0	74	23.3	90	se.	15	6.7	.....	0	5 ks	.....	s.	0	0	fair	E. O'C. MacInerney.
Grand Haven, Michigan	29.52	749.8	30.21	767.3	42.0	5.6	78	ne.	12	5.4	.....	3 c	0	w.	.....	0	0	clear	W. A. Reid.
Hatteras, North Carolina	30.08	764.0	30.10	764.5	65	18.3	93	w.	16	7.2	.....	4 k	5 k	.....	w.	0	0	cloudy	R. M. Crawford.
Helena, Montana	25.80	655.3	30.06	763.5	26	— 3.3	56	w.	4	1.8	.....	0	0	.....	.....	inap.	inap.	clear	N. C. Smith.
Henrietta, Texas	28.87	733.3	29.90	759.4	60.0	15.6	65	s.	5	2.2	.....	0	4 s	.....	.....	0.16	4.1	fair	J. W. Byram.
Huron, Dakota	28 18	715.8	29.63	752.6	49.9	9.9	96	ne.	34	15.2	.....	.....	10 n	.....	.....	0.82	20.8	light rain	S. W. Glenn.
Indianapolis, Indiana	29.26	743.2	30.08	764.0	58.5	14.7	71	e.	4	1.8	.....	3 cs	4 s	e.	e.	0	0	fair	O. Schutze
Indianola, Texas	29.86	758.4	29.88	758.9	74.6	23.7	97	s.	11	4.9	.....	0	8 k	.....	s.	0	0	cloudy	I. A. Reed.
Jacksboro, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	inap.	inap.	.....	J. P. Sherry.
Jacksonville, Florida	30.09	764.3	30.13	765.3	71	21.7	90	s.	16	7.2	.....	.....	10 n	.....	s.	0.36	9.1	light rain	J. W. Smith.
Keokuk, Iowa	29.26	743.2	29.93	760.2	52.0	11.1	86	e.	12	5.4	.....	.....	10 s	.....	e.	0	0	cloudy	F. Z. Gosewisch
Key West, Florida	30.07	763.8	30.09	764.3	77.0	25.0	74	se.	9	4.0	.....	3 cs	2 k	.....	se.	0	0	fair	L. M. Melbourne.
Kittyhawk, North Carolina	30.09	764.3	30.11	764.8	64	17.8	90	w	14	6.3	.....	.....	10 s	.....	nw.	0	0	cloudy	E. A. Beals.
Knoxville, Tennessee	29.07	738.4	30.11	764.8	63.6	17.6	96	s.	2	0.9	.....	.....	10 s	.....	sw.	1.25	31.7	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.32	744.7	30.12	765.0	46	7.8	60	e.	6	2.7	.....	0	6 s	.....	.....	0	0	fair	S. C. Emery.
La Mesilla, New Mexico	26.08	662.4	29.96	761.0	33.0	0.6	54	calm	0	0	.....	0	0	.....	.....	0	0	clear	N. D. Lane.
Leavenworth, Kansas	28.89	733.8	29.80	756.9	59	15.0	81	s.	12	5.4	.....	.....	10 ks	.....	sw.	1.08	27.4	cloudy	A. W. Browne.
Lewiston, Idaho	29.09	738.9	29.94	760.5	40.4	4.7	58	e	4	1.8	.....	0	4 s	.....	e.	0	0	fair	W. Blake.
Little Rock, Arkansas	29.62	752.3	29.94	760.5	70	21.1	90	se.	7	3.1	.....	0	6 s	.....	s.	0.30	7.6	fair	W. U. Simmons.
Los Angeles, California	29.70	754.4	30.10	764.5	43.6	6.4	76	n.	11	4.9	.....	0	0	.....	.....	0	0	clear	E. F. Kubel.
Louisville, Kentucky	29.45	748.0	30.02	762.5	64	17.8	90	ne.	4	1.8	.....	.....	10 s	.....	.....	0.37	9.4	cloudy	H. C. Smyth.
Lynchburg, Virginia	29.39	746.5	30.10	764.5	62.0	16.7	90	calm	0	0	.....	.....	10s;fg	.....	.....	0	0	cloudy	W. R. Bushby.
Madison, Wisconsin	29 13	739.9	30.17	766.3	41	5.0	82	e.	6	2.7	.....	3 c	0	w.	.....	0	0	fair	C. A. Shaw.
Marquette, Michigan	29.60	751.8	30.34	770.6	34	1.1	72	nw.	3	1.3	.....	3 c	0	w.	.....	0	0	clear	J. Gilligan.
Mason, Texas	28.26	717.8	29.91	759.7	60	15.6	67	nw.	6	2.7	.....	0	1 s	.....	w.	0.50	12.7	clear	P. M. Wilson.
Memphis, Tennessee	29.71	754.6	30.05	763.3	69	20.6	93	se.	5	2.2	.....	.....	10 s	.....	se.	0.04	1.0	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	29.44	747.8	30.21	767.3	40	4.4	89	ne.	8	3.6	.....	6 c	0	.....	.....	0	0	fair	W. Line.

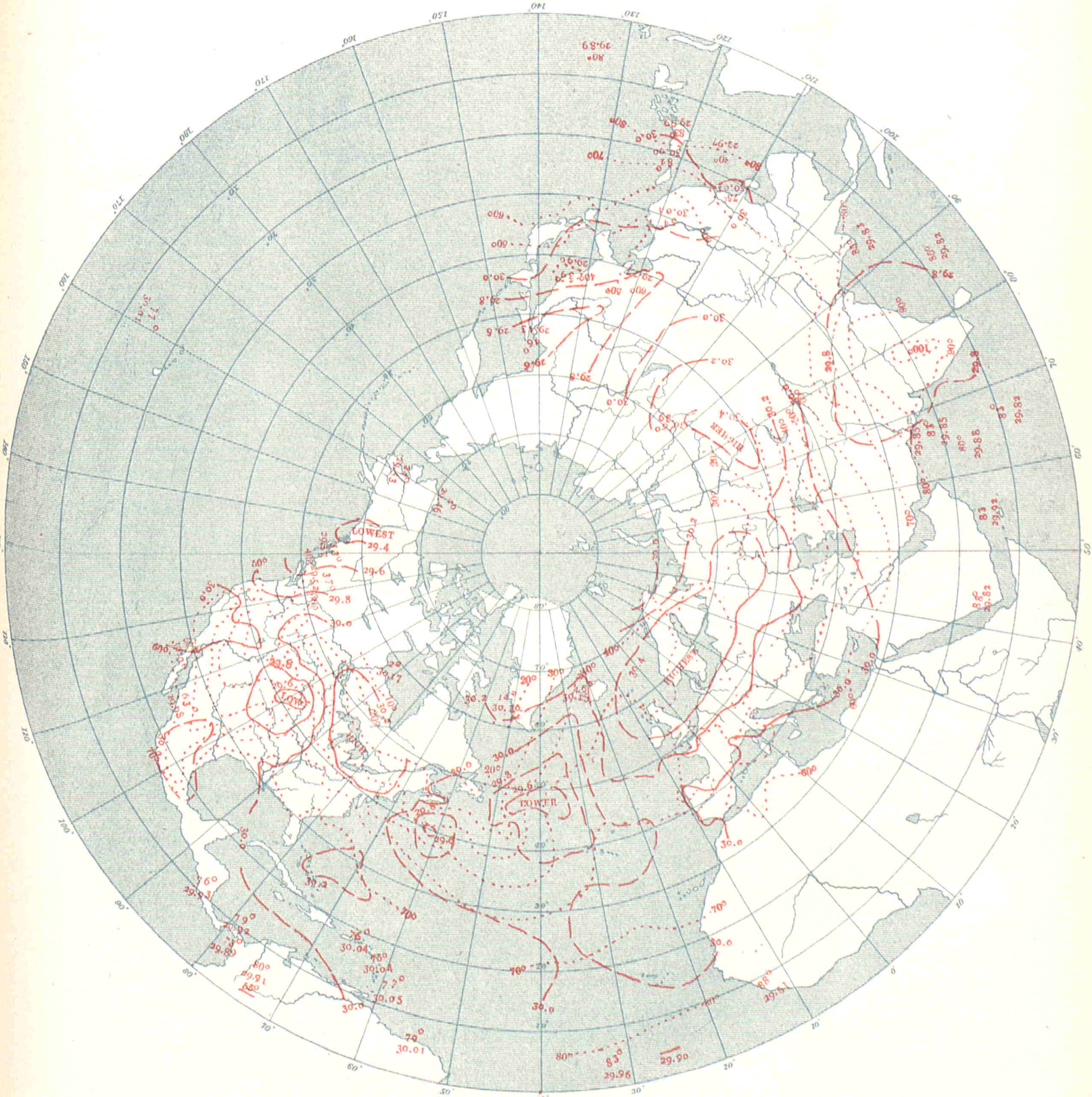
STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–01	0–10	0–10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Mobile, Alabama	30.04	763.0	30.08	764.0	70.5	21.4	93	se.	2	0.9			10 s		s.	0	0	cloudy	J. D. Paxton.
Montgomery, Alabama	29.86	758.4	30.09	764.3	67	19.4	93	calm	0	0		3 ck	0			0	0	clear	J. B. McLaughlin.
Moorhead, Minnesota	28.95	735.3	29.98	761.5	39.2	4.0	89	ne.	8	3.6			10 s			inap.	inap.	cloudy	H. Bessant.
Morgantown, W. Virginia	29.10	739.1	30.14	765.5	57.0	13.9	74	calm	0	0		0	5 s			0	0	fair	G. C. Lewis.
Mt. Washington, N. H.	23.64	600.4	30.75	763.3	19.0	— 7.2	64	nw.	70	31.3		0	6 s		nw.	1.91	48.5	fair	J. G. Linsley.
Nashville, Tennessee	29.49	749.0	30.03	762.7	64.5	18.1	90	s.	4	1.8			10 n		sw.	1.35	34.3	light rain	L. A. Jesunofsky.
New Haven, Connecticut	30.03	762.7	30.15	765.8	49	9.4	63	ne.	9	4.0			10 s		ne.	inap.	inap.	cloudy	J. H. Sherman.
New London, Connecticut	30.07	763.8	30.12	765.0	50	10.0	63	w.	6	2.7		0	0			0	0	clear	J. G. Lynch.
New Orleans, Louisiana	29.98	761.5	30.04	763.0	73.0	22.8	90	se.	8	3.6			10 s			0	0	cloudy	S. Dunne.
Newport, Rhode Island	30.06	763.5	30.11	764.8	45.3	7.4	79	n.	6	2.7		1 c	0	calm		0.03	c.8	clear	W. McGillivray.
New River, N. Carolina					66	18.9	95	w.			1		10 s			0	0	cloudy	C. C. Corbin.
New Shoreham, Rhode I'd.	30.09	764.3	30.12	765.0	44.0	6.7	76	ne.	7	3.1		0	hz.			0.01	0.3	clear	W. Davis.
New York, New York	29.98	761.5	30.16	766.1	52	11.1	72	n.	11	4.9		3 cs	0			0	0	clear	E. B. Garriott.
Norfolk, Virginia	30.07	763.8	30.10	764.5	67	19.4	78	nw.	1	0.4		5 ck	3 ks	nw.	nw.	0	0	cloudy	J. T. Elker.
North Platte, Nebraska	26.59	675.4	29.55	750.6	44.6	7.0	91	sw.	16	7.2		0	8 s		sw.	0.93	23.6	cloudy	E. F. Brady.
Olympia, Washington T'y	29.68	753.9	29.72	754.9	42.5	5.8	89	calm	0	0			10 n		calm	0.09	2.3	light rain	J. Dascomb.
Omaha, Nebraska	28.50	723.9	29.72	754.9	56.3	13.5	93	se.	12	5.4		6 cs	0	s.		2.18	55.4	fair	A. Pollak.
Ooglaamie, Pt. Barrow, Alas.	29.44	747.8	29.46	748.3	—3.7	—19.8	86	se.	7	3.1		0	0			0	0	clear	P. H. Ray.
Oswego, New York	29.92	760.0	30.26	768.6	38.4	3.6	83	ne.	11	4.9			10 s		ne.	0	0	cloudy	S. W. Beall.
Palestine, Texas	29.40	746.7	29.96	761.0	69.0	20.6	93	sw.	8	3.6			10 n		sw.	0.10	2.5	light rain	L. M. Pindell.
Pensacola, Florida	30.05	763.3	30.08	764.0	71.1	21.7	94	se.	8	3.6			10 s		s.	0	0	cloudy	M. McGauran,
Philadelphia, Pa	30.06	763.5	30.16	766.1	53	11.7	72	n.	12	5.4		2 cs	0	nw.		0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	17.26	438.4	29.54	750.3	0	—17.8	100	nw.	40	17.9			fg.			0.05	.1.3	dense fog	L. M. Dey.
Ploche, Nevada	24.05	610.9	30.04	763.0	24	— 4.4	67	calm	0	0		0	0			0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.33	745.0	30.16	766.1	51.4	10.8	80	n.	5	2.2		0	2 s		n.	0	0	clear	J. H. Bryce.
Port Eads, Louisiana	30.03	762.7	30.04	763.0	71.5	21.9	96	se.	10	4.5		0	hz.			inap.	inap.	clear	H. G. Christian.
Port Huron, Michigan	29.55	750.6	30.25	768.3	40.6	4.8	88	ne.	5	2.2		0 c	1 s	w.		0	0	cloudy	W. O. Bailey.
Portland, Maine	30.05	763.3	30.10	764.5	45.0	7.2	68	n.	6	2.7		8 k	0	n.		0.16	4.1	cloudy	D. C. Murphy.
Portland, Oregon	29.68	753.9	29.75	755.6	45.2	7.3	93	s.	5	2.2			10 n		s.	0.14	3.6	light rain	M. L. Hearne.
Portsmouth, N. Carolina					64	17.8	84	w.	11	4.9			10 s		calm	0	0	cloudy	F. P. Chaffee.
Prescott, Arizona	24.64	625.8	29.86	758.4	24	— 4.4	44	s.	3	1.3		0	0			0	0	clear	J. McN. Wright.
Provincetown, Mass	30.07	763.8	30.10	764.5	43	6.1	83	nw.	10	4.5		0	0			0.04	1.0	clear	P. T. Jenkins.
Punta Rassa, Florida	30.08	764.0	30.10	764.5	70	21.1	90	e.	8	3.6		1 c	0	calm		inap.	inap.	clear	W. J. Evans.
Red Bluff, California	29.58	751.3	29.95	760.7	49.3	9.6	66	sw.	9	4.0			10 s		sw.	0	0	cloudy	J. M. Frantz.
Rio Grande City, Texas	29.54	750.3	29.78	756.4	75	23.9	85	se.	8	3.6		0	5 s		se.	0	0	fair	W. H. Taylor.
Rochester, New York	29.62	752.3	30.30	769.6	39	3.9	82	e.	9	4.0			10 s			0	0	cloudy	A. T. Sherwood.
Roseburg, Oregon	29.23	742.4	29.79	756.7	51	10.6	66	s.	8	3.6			10 s			0	0	cloudy	J. J. Nanry.
Sacramento, California	29.95	760.7	30.03	762.7	45.0	7.2	83	se.	6	2.7			8 s		sw.	0	0	cloudy	J. A. Barwick.
St. Louis, Missouri	29.39	746.5	30.00	762.0	62.0	16.7	93	se.	11	4.9			10 s			0.06	1.5	cloudy	J. H. Webber.
St. Paul, Minnesota	29.15	740.4	30.04	763.0	45.0	7 2	76	e.	12	5.4		3 cs	7 ks	w.	e.	0	0	cloudy	P. F. Lyons.
St. Vincent, Minnesota	29.27	743.4	30.18	766.6	35	1.7	79	ne.	10	4.5			10 s			0	0	cloudy	G. Kingsbury.
Salt Lake City, Utah	25.64	651.2	30.01	762.2	37	2.8	82	calm	0	0			10 s			0.18	4.6	threatening	J. Craig.
San Antonio, Texas	29.18	741.2	29.88	758.9	65.6	18.7	84	w.	2	0.9		0	2 s		w.	0	0	clear	E. Lane.
San Diego, California	29.95	760.7	30.02	762.5	45.0	7.2	76	ne.	3	1.3		hz.	0			0	0	clear	A. C. Dobbins.
Sandusky, Ohio	29.52	749.8	30.22	767.6	43.2	6.2	83	ne.	19	8.5			10 s			0	0	cloudy	M. H. Perry.
Sandy Hook, New Jersey	30.13	765.3	30.17	766.3	49.0	9.4	77	nw.	11	4.9		1 c	hz.	calm	calm	inap.	inap.	clear	B. A. Blundon.
San Francisco, California	29.96	761.0	30.03	762.7	48	8.9	81	sw.	3	1.3			10 s		sw.	0	0	cloudy	N. Gorom.
Santa Fé, New Mexico	23.10	586.7	29.86	758.4	29	— 1.7	49	se.	5	2.2		0	0			0	0	clear	H. U. Jones.
Savannah, Georgia	30.04	763.0	30.12	765.0	71	21.7	90	s.	5	2.2			10 s		s.	0.08	2.0	cloudy	H. W. Ford.
Shreveport, Louisiana	29.76	755.9	30.00	762.0	70	21.1	90	s.	3	1.3		4 c	6 ks		s.	0.16	4.1	cloudy	E. N. Meekins.
Silver City, New Mexico	24.22	615.2	29.90	759.4	30	— 1.1	36	nw.	1	0.4		0	0			0	0	clear	J. B. Wallace.
Sitka, Alaska	29.31	744.5	29.37	746.0	33	0.6	88	nw.	4	1.8			10 s		calm	inap.	inap.	threatening	J. J. McLean.
Smithville, North Carolina	30.11	764.8	30.15	765.8	68	20.0	93	w.	6	2.7		2 c	3 s		w.	0	0	fair	O. Parker.
Spokane Falls, Wash. Ter.	27.90	708.6	29.96	761.0	35	1.7	82	ne.	5	2.2		9 cs	0			0	0	cloudy	D. Moore.
Springfield, Illinois	29.32	744.7	30.02	762.5	57.3	14.1	77	e.	8	3.6		4 c	1 ks	sw.	s.	0	0	fair	T. B. Jennings.
Springfield, Massachusetts	30.04	763.0	30.17	766.3	50.2	10.1	58	n.	8	3.6		4 k	0	nw.		0	0	fair	T. S. Outram.
Springfield, Mo	28.44	722.4	29.96	761.0	62	16.7	90	w.	4	1.8			10 n		sw.	0.56	14.2	light rain	J. B. Marbury.
Stockton, Texas	26.96	684.8	29.99	761.7	38.7	3.7	42	s.	4	1.8		0	0			0	0	clear	J. O'Dowd.
Thatcher's Island, Mass	30.08	764.0	30.12	765.0	41.5	5.3	82	nw.	16	7.2		0	0			0.01	0.3	clear	G. Liebmann.
Toledo, Ohio	29.50	749.3	30.22	767.6	43	6.1	83	ne.	17	7.6			10 s		ne.	0	0	cloudy	A. Buell.
Tucson, Arizona	27.59	700.8	29.98	761.5	40	4.4	59	sw.	5	2.2		0	0			0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.48	748.8	29.85	758.2	47.0	8.3	61	se.	4	1.8			10 s			0	0	cloudy	J. Daly.
Uvalde, Texas	28.94	735.1	29.90	759.4	60	15.6	70	ne.	10	4.5		0	8 ks		w.	0.15	3.8	cloudy	E. C. Imlay.
Vicksburg, Mississippi	29.78	756.4	30.04	763.0	70	21 1	90	se.	2	0.9		0	9 s		s.	0.19	4.8	cloudy	T. J. Kenan.
Visalia, California	29.64	752.8	30.02	762.5	43.5	6.4	70	se.	4	1.8		0	0			0	0	clear	J. T. Cochran.
Washington, D. C.	30.06	763.5	30.18	766.6	57	13.9	80	ne.	1	0.4		7 c	hz.	nw.		inap.	inap.	fair	B. M. Purssell.
West Las Animas, Colorado	25.71	653.0	29.67	753.6	37	2.8	56	w.	12	5.4		0	0			0	0	clear	J. Grover.
Wickenburg, Arizona					39	3.9	54	calm			0	0	0			0	0	clear	H. A. Kremp.
Williamsport, Pa	29.60	751.8	30.21	767.3	50	10.0	74	n.	2	0.9			10 s		ne.	0	0	cloudy	B. F. Hough.
Wilmington, N. Carolina	30.08	764.0	30.14	765.5	68	20.0	90	w.	1	0.4			10s;fg			0	0	cloudy	E. W. McGann.
Winnemucca, Nevada	25.56	649.2	29.96	761.0	30	— 1.1	80	se.	5	2.2		5 c	0	s.		0	0	fair	J. R. Williams.
Yankton, Dakota	28.19	716.0	29.53	750.0	58	14.4	90	se.	18	8.0			10 ks		se.	0.84	21.3	cloudy	J. H. Atfield.
Yuma, Arizona	29.85	758.2	30.00	762.0	45.8	7.7	39	n.	3	1.3		0	0			0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.04	559.8			54.5	12.5	71	calm	0	0		2 cs	4ks;n		s.	0	0	fair	Joaquin Gomez.
Bridgetown, Barbados, W.I.	30.04	763.0	30.05	763.3	77	25.0	95	e.				5 k	5 ks	e.	e.	0.54	13.7	cloudy	J. A. Racker.
Buenaventura, U. S. C.																			J. I. Plume.
Guadeloupe, W. I.	29.92	760.0	29.94	760.5	75	23.9	83	e.				3 c	0			0	0	clear	B. Bigar.
Havana, Cuba, W. I.	30.06	763.5	30.11	764.8	75	23.9	82	e.	2.4	1.1		0	0			inap.	inap.	clear	A. Van Caneghem.
Kingston, Jamaica, W. I.	30.02	762.5	30.03	762.7	74.0	23.3	80	n.	1	0.4		1 c	1 s			0.09	2.3		Robert Johnston.
Navassa, W. I.																			F. M. Everett.
Paramaribo, S. A.	30.00	762.0	30.01	762.2	79	26.1	82	e.			2	3 c	4 k	e.		0	0		Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.45	748.0	29.91	759.7	80	26.7	89	calm			0	4 ck	5 k	n.	calm	0.11	2.8	cloudy	Miss Flora A. Nichols.
Rivas, Nicaragua, C. A.							92	ne.			2	0	3 k		ne.	0	0	fair	Earl Flint.
Santiago de Cuba, W. I.	30.00	762.0	30.03	762.7	76	24.4	72	n.	3.6	1.6		3 c	0			0.022	0.6	fair	Robert Mason.
York Factory, B. A.	30.11	764.8	30.17	766.3	— 2.0	—18.9	84	sw.	9	4.0		1 c	0	sw.		0	0	fair	W. Wood.

STATIONS AND VESSELS.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
	Upper.	Lower.	Upper.	Lower.												Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
British Naval.																		
H. M. S. Agincourt, N. 35° 57′, W. 5° 45′	29.95	760.7	57	13.9	87	var.			1		2	wsw.						d. clouds.
H. M. S. Alert, Mahi, Seychelles Islands	29.82	757.4	87.5	30.8	70	nne.			1		7							d. clouds.
H. M. S. Alexandra, Port Augusta, Sicily	29.96	761.0	56	13.3	87	e.			2–6		10	e.						raining.
H. M. S. Bacchante, Jaffa, Palestine	30.02	762.5	65	18.3	73	nnw.			1		9							misty.
H. M. S. Cleopatra, N. 8° 52′, E. 65° 40′	29.82	757.4	82.5	28.1	87	ne.			2		8	calm						d. clouds.
H. M. S. Comus, Pelew Island, Oceania	29.89	759.2	80	26.7	95	e.			1		3	ne.						d. clouds.
H. M. S. Diamond, S. 37° 51′, E. 132° 16′	29.77	756.1	64	17.8	88	nne.			5–6		10					2	ne.	overcast.
H. M. S. Dido, N. 17° 00′, W. 61° 45′	30.05	763.3	75	23.9		e.			1–2		4	ne.						d clouds.
H. M. S. Dryad, N. 24° 23′, E. 65° 01′	29.75	755.6				wnw.			2		2	nw.				1	sw.	d. clouds.
H. M. S. Eclipse, S 14° 58′, E. 40° 58′			85	29.4	96	ssw.			1		2					2	ssw.	d. clouds.
H. M. S. Espiegle, S. 36° 13′, E. 124° 42′	29.65	753.1	61	16.1	88	w.			6		4	w.				3	sw.	d. clouds.
H. M. S. Fawn, N. 15° 22′ E. 42° 18′	29.82	757.4	83	28.3	66	sw.			1		2							misty.
H. M. S. Gannet, S. 33° 01′, W. 71° 37′	30.01	762.2	60	15.6	79	ne.			1		10							misty.
H. M. S. Garnet, Montevideo, Uruguay	30.03	762.7	58	14.4	93	nw.			2		0							foggy.
H. M. S. Inconstant, S. 29° 30′, E. 39° 20′	29.99	761.7	73	22.8	95	se.			4–5		8	se.				5	se.	showery.
H. M. S. Iron Duke, N. 22° 16′ E. 114° 10′	29.90	759.4	70	21.1	90	ne.			1		5	ne.						d. clouds.
H. M. S. Lark, S. 10° 51′, E. 162° 26′	29.93	760.2	79.3	26.3		calm			c		1							blue sky.
H. M. S. Liffey, Coquimbo, Chili	30.02	762.5	60	15.6		e.			1		4							d. clouds.
H. M. S. Magpie, N. 34° 41′, E. 135° 12′	30.06	763.5	56.6	13.7	74	ne.			1		10							raining.
H. M. S. Malabar, N 16° 42′ E. 63° 42′	29.88	758.9	80	26.7	91	nnw.			2		2	nnw.				2	nnw.	d. clouds.
H. M. S. Nelson, Sydney, N. S. W.	30.19	766.8	69	20.6	84	calm			0		0							blue sky.
H. M. S. Northampton, Bermuda, W. I.	30.06	763.5	65.5	18.6	89	wsw.			4		10	wsw.						d. clouds.
H. M. S. Pegasus, N. 16° 12′, E. 114° 03′	29.97	761.2	80	26.7	95	ene.			1–2		0					2	ene.	blue sky.
H. M. S. Rambler, St. Paul de Loando, Benguela	29.85	758.2	81	27.2	95	wsw.			1		2							d. clouds.
H. M. S. Rocket, Esquimalt, Vancouver Id., B. C.	29.64	752.8	45	7.2		ese.			4–6		8							squally.
H. M. S. Serapis, N. 14° 40′ E. 54° 15′	29.92	760.0	83	28.3	70	ene.			3		2	e.						d. clouds.
H. M. S. Superb, N. 37° 09′, E. 17° 15′*	30.01	762.2	56	13.3	93	ene.			4–5		5	ene.				4	ene.	raining.
H. M. S. Tenedos, N. 29° 38′ W. 66° 48′	30.16	766.6	63.5	17.5	?	n.			1		0					2	ne.	blue sky.
H. M. S. Thalia, S. 32° 40′, E. 15° 50′	29.99	761.7	66.5	19.2	81	se.			4		3					2	se.	d. clouds.
H. M. S. Triumph, Valparaiso, Chili	29.98	761.5	60	15.6	76	calm			0		2	calm						d. clouds.
H. M. S. Tyne, N. 7° 42′, E. 86° 22′	29.82	757.4	85	29.4	79	nne.			2		3	w.				2	nne.	d. clouds.
H. M. S. Woodlark, N. 20° 24′, E. 67° 07′	29.85	758.2	82.5	28.1	74	wnw.			3–4		0					3	nw.	misty.
Portuguese Naval.																		
Rio Lima, Porto Praya, Cape Verd Islands	30.01	762.2	77.0	25.0	76	nne.			3		0					1		blue sky.
Tamega, Macao, China	30.05	763.2	74.8	23.8	78	ene.			2		8					1	ene.	overcast.
United States Naval.																		
Navy Yard, Pensacola, Fla	30.02	762.5	72	22.2	95	se.	10	4.5			10		se.	0	0			cloudy.
N. Yard, Portsmouth, N. H	30.09	764.3	43	6.1	67	nw.	7	3.1			2		nw.	0	0			clear.
Naval Hospital, Yokohama, Japan	30.08	764.0	55	12.8	90	calm			0		10		sw.	sli't	sli't			drizzling.
Adams, Panama, Panama	29.69	754.1	76	24.4	95	nw.			3		2			0	0	sm'h		clear.
Alaska, Callao, Peru	29.88	758.9	62	16.7	94	se.			1		10		s.	0	0	sm'h		cloudy.
Alert, N. 34° 32′, E. 134° 46′*	29.92	760.0	55	12.8	68	ese.			3–4		07					sm'h		raining.?
Alliance, N. 16° 28′, W. 81° 15′	29.90	759.4	78	25.6	82	ne.			3		5			light	light	sm'h		fair.
Ashuelot, Nagasaki, Japan	30.00	762.0	61	16.1	94	sw.			2		10		ssw.					cloudy.
Brooklyn, Montevideo, Uruguay	30.01	762.2	58	14.4	?	wsw.	6	2.7			0			0	0	sm'h		clear.
Colorado, New York, N. Y.	30.14	765.5	51	10.6	79	ne.	3	1.3			0			0	0			clear.
Enterprise, Curacoa, W. I*	29.96	761.0	76	24.4	95	ene.			1–2		10		ene.					cloudy.
Essex, N. 0° 47′, W. 8° 48′	29.91	759.7	82	27.8	79	s.			1		10					sm'h	s.	cloudy.
Franklin, Norfolk, Va	30.12	765.0	66	18.9	89	ssw.	1	0.4			8		wsw.	0	0			fair.
Galena, Leghorn, Italy	30.03	762.7	65	18.3	53	e.			1		2					sm'h		fair.
Independence, Mare Island, Cal	29.90	759.4	48	8.9	85	s.			2		8		sw.	0	0			cloudy.
Kearsarge, Samana, Bay, Haiti, W. I	30.08	764.0	72	22.2	76	calm			0		5					sm'h		fair.
Lackawana, Callao, Peru*	29.88	758.9	64	17.8	94	sse.			2		10		sse.					hazy.
Lancaster, Leghorn, Italy*	29.97	761.2	71	21.7	95	e.			1		2		s.	0	0			fair
Marion, S. 33° 54′, E. 18° 24′	29.98	761.5	74	23.3	68	w.			1		0			0	0	sm'h		clear.
Michigan, Erie, Pa	30.13	765.3	43	6.1	100	e.			4		10		e.					hazy.
Minnesota, Newport, R. I	30.14	765.5	46	7.8	84	n.	5	2.2			0							clear.
Monocacy, Kobe, Japan	30.11	764.8	56	13.3	87	nne.			2		10		calm					rainy.
New Hampshire, Newport, R. I	30.11	764.8	50	10.0	79	ne.			2		2			0	0	sm'h		fair.
Nipsic, Barcelona, Spain	30.01	762.2	60	15.6	65	ene.			4		8					sm'h		d. clouds.
Onward, Callao, Peru†	30.06	763.5	62	16.7	100	sse.			2		10		n.			long	w.	cloudy.
Palos, Kobe, Japan	30.10	764.5	58	14.4	82	ne.			1		10		ne.					rainy.
Passaic, Washington, D. C	30.16	766.1	56	13.3	87	ne.			1		2							fair.
Pensacola, Callao, Peru	30.00	762.0	63	17.2	100	sse.	2	0.9			10		s.	0	0	sm'h		cloudy.
Powhatan, Santa Ana Curacoa, W. I	30.01	762.2	75	23.9	100	ene.			3		8		ene.					cloudy.
Portsmouth, N. 37° 53′, W. 74° 37′	30.09	764.3	48	8.9	100	ne.			4		2		ne.			mod.	e.	misty.
Quinnebaug, Leghorn, Italy	30.01	762.2	66	18.9	34	e.			2		2		calm	0	0	sm'h		clear.
Ranger, Acapulco, Mexico*	29.86	758.4	78	25.6	78	calm			0		2		calm	0	0	sm'h		clear.
Richmond, Kobe, Japan*	29.99	761.7	59	15.0	76	e.			1		10		e.	1.4	36.			raining.
Shenandoah, Cartagena, U. S. C*	29.93	760.2	77	25.0	86	e.			1		2		calm			sm'h		fair.
St. Louis, League Island, Pa	30.39	771.9	54	12.2	93	n.	5	2.2			0			0	0			clear.
Swatara, Kobe, Japan*	29.91	759.7	58	14.4	76	ne.			2		10		e.			sm'h		light rain.
Tennessee, Port Royal, S. C	30.17	766.3	72	22.2	95	s.	4	1.8			10			0.20	5.1			overcast.
Vandalia, Port Royal, S. C†	30.28	769.1	71	21.7	95	s.			2		10		s.					cloudy.
Wabash, Boston, Mass	30.12	765.0	47	8.3	77	nw.	7	3.1						0.01	0.3			clear.
Wachusetts, Sitka, Alaska	29.30	744.2	35	1.7	90	w.			1		1?		calm			sm'h		overcast?.
Wyoming, Port Royal, S. C	30.15	765.8	70	21.1	85	s.	2	0.9			10		calm	0.02	0.5			drizzling.
Yantic, N. 29° 47′, W. 79° 53′*	30.12	765.0	73	22.8	85	ene.			0–1		8		ene.			sm'h		cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Circassian, N. 44° 03′, W. 62° 30′	30.14	765.5	28	—2.2	.....	ene.	.....	.....	5	.....	10	.....	ene.	4 h'r	4 h'r	3	se.	snowing.
S. S. Polynesian, N. 53° 52′, W. 20° 08′	30.12	765.0	52	11.1	.....	e.	.....	.....	3	.....	4	.....	e.	2 h'r	2 h'r	mod.	ese.	fair.
S. S. Scandinavian, N. 54° 35′, W. 14° 05′*	30.26	768.6	53	11.7	.....	e.	.....	.....	5	.....	0	.....	.....	0	0	cross	e.	blue sky.
S. S. Waldensian, N. 42° 50′, W. 67° 00′ *	29.92	760.0	36	2.2	.....	ne.	.....	.....	4	.....	10	.....	ne.	0	0	short	sw.	overcast.
AMERICAN STEAMSHIP COMPANY.																		
S. S. British Crown, N. 39° 50′, W. 58° 25′†	29.82	757.4	58	14.4	.....	sw.	.....	.....	6	.....	10	.....	.....	9 h'r	9 h'r	r'gh	n.	raining.
S. S. Illinois, Philadelphia, Pa.	29.53	750.0	49	9.4	93	calm	.....	.....	0	.....	8	.....	calm	.....	.....	.....	.....	cloudy.
S. S. Indiana, N. 49° 01′, W. 23° 54′†	30.26	768.6	56	13.3	74	se.	.....	.....	4	.....	5?	.....	sse.	0	0	slight	sw.	clear.?
S. S. Ohio, N. 38° 52′, W. 65° 27′†	29.84	757.9	53	11.7	100	nw.	.....	.....	6	.....	9	.....	nw.	.....	.....	high	wnw.	clearing.
ANCHOR LINE.																		
S. S. Ethiopia, N. 42° 25′, W. 46° 34′	29.82	757.4	29	—1.7	100	n.	.....	.....	3	.....	7	.....	n.	4 h'r	4 h'r	h'vy	ne.	overcast.
S. S. India, N. 36° 40′, W. 0° 28′ *	29.84	757.9	57	13.9	87	w.	.....	.....	3	.....	2	.....	.....	.....	.....	.....	.....	fair.
ATLAS LINE.																		
S. S. Alvo, Cartagena, U. S. C.	29.90	759.4	.....	.....	.....	nnw.	.....	.....	4	.....	4	.....	nw.	0	0	mod.	e.	fair.
S. S. Arden, N. 10° 40′ W 71° 38′	.....	.....	.....	.....	.....	ne.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	fine.
S. S. Athos, N. 17° 55′ W. 68° 24′	29.68	753.9	.....	.....	.....	ene.	.....	.....	1	.....	2	.....	ene.	½ h'r	½ h'r	.....	e.	clear.
S. S. Claribel, N. 36° 01′, W 73° 16′*†	30.10	764.5	74	23.3	90	wnw.	.....	.....	3	.....	8	.....	w.	0	0	long	sw.	cloudy.
BOSTON AND HALIFAX LINE.																		
S. S. Carroll, N. 42° 26′, W. 63° 33′†	30.31	769.9	33	0.6	89	e.	.....	.....	2	.....	.....	.....	.....	snow	snow	.....	.....	lightsnow.
BRITISH METEOROLOGICAL OFFICE.																		
Bk. Arran, S 2° 03′, W. 22° 57′	29.91	759.7	82.5	28.1	79	sse.	.....	.....	4	.....	5	.....	.....	.....	.....	.....	.....	d. clouds.
S. Baroda, S. 1° 00′, E. 83° 10′	29.84	757.9	87.4	30.8	71	s.	.....	.....	1	.....	2	.....	.....	.....	.....	.....	.....	d. clouds.
British Merchant, S. 2° 08′, E. 86° 45′	29.83	757.7	86	30.0	72	w.	.....	.....	0–1	.....	3	.....	.....	.....	.....	.....	.....	d. clouds.
Bk. Caldew, N. 47° 20′, W. 17° 07′	30.14	765.5	50.7	10.4	.....	se.	.....	.....	4	.....	10	.....	.....	.....	.....	.....	.....	drizzling.
S. S. Cipero, Plymouth Sound, England	30.29	769.4	57	13.9	54	ene.	.....	.....	5	.....	0	.....	.....	.....	.....	.....	.....	misty.
Bk. Commewyne, N. 54° 28′, W. 18° 31′	30.32	770.1	55	12.8	74	e.	.....	.....	5	.....	8	.....	.....	.....	.....	.....	.....	misty.
Bk. Corona, N. 3° 45′, W. 32° 44′	29.96	761.0	82.8	28.2	77	n.	.....	.....	3	.....	8	.....	.....	.....	.....	.....	.....	d. clouds.
Glencairn, N. 15° 40′, E. 95° 40′	29.83	757.7	85	29.4	83	se.	.....	.....	3–4	.....	1	.....	.....	.....	.....	.....	.....	blue sky.
S. S. Gordon Castle, N. 20° 06′ E. 112° 14′	30.01	762.2	75	23.9	90	e.	.....	.....	3	.....	5	.....	.....	.....	.....	.....	.....	d. clouds.
S. S. Rosetta, N. 44° 56′, W. 9° 22′.	30.03	762.7	58	14.4	76	ne.	.....	.....	1	.....	6	.....	.....	.....	.....	.....	.....	misty.
CUNARD LINE																		
S. S. Bothnia, N. 41° 05′, W. 54° 20′	29.93	760.2	.....	.....	.....	e.	.....	.....	2	.....	1	.....	e.	0	0	sm'h	ne.	clear.
S. S. Scythia, N. 42° 37′, W. 48° 56′	.....	.....	32.0	0.0	90	nw.	.....	.....	4	.....	5?	.....	nnw.	16 h'r	16 h'r	mod.	nw.	cloudy ?
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. Canada, N. 41° 10′, W. 56° 30′	29.82	757.8	33.8	1.0	.....	e.	.....	.....	2	.....	10	.....	ne.	.....	.....	sm'h	.....	covered.
S. S. France, N. 49° 54′, W. 7° 30′†	30.19	766.7	51.8	11.0	.....	ene.	.....	.....	6	.....	.....	.....	e.	0	0	ene.	.....	clear.
GUION LINE.																		
S. S. Arizona, N. 43° 26′, W. 46° 36′	29.92	760.0	28	—2.2	.....	n.	.....	.....	6	.....	10	.....	nne.	light	light	mod.	n.	light hail.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Gellert, Havre, France	30.24	768.1	58	14.4	.....	ne.	.....	.....	3	.....	1	.....	ne.	0	0	.....	.....	clear.
S. S. Lessing, New York, N. Y.	30.14	765.6	60	15.6	.....	ene.	.....	.....	2	.....	2	.....	nnw.	0	0	.....	.....	clear.
S. S. Silesia, N. 47° 02′, W. 34° 36*†	29.47	748.5	51.8	11.0	.....	se.	.....	.....	6–9	.....	10	.....	sse.	2 h'r	2 h'r	6–8	sse.	overcast.
S. S. Wieland, N. 49° 31′, W. 15° 46′	30.31	769.9	56	13.3	.....	ene.	.....	.....	4	.....	10	.....	ene.	½ h'r	½ h'r	2	ene.	hazy.
INMAN LINE.																		
S. S. City of New York, N. 51° 19′ W. 13° 36′	30.31	769.9	.....	.....	.....	ese.	.....	.....	4	.....	0	.....	.....	0	0	mod.	ese.	clear.
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, Mersey River, Eng.*†	30.37	771.4	56	13.3	.....	e.	.....	.....	1	.....	1	.....	ese.	0	0	.....	.....	
MALLORY LINE.																		
S. S. Colorado, N. 27° 35′, W. 89° 46′†	29.98	761.5	75	23.9	.....	ese.	.....	.....	1	.....	1	.....	ese.	0	0	small	se.	clear.
MERCHANTS' EXPRESS LINE.																		
S. S. Hermod, N. 47° 10′, W. 47° 00′*†	29.32	744.7	32	0.0	.....	nw.	.....	.....	7	.....	10	.....	nw.	4 h'r	4 h'r	r'gh	nw.	threatening.
NATIONAL LINE.																		
S. S. Canada, N. 41° 04′, W. 57° 23′	29.61	752.1	45	7.2	.....	e.	.....	.....	1	.....	10	.....	n.	4 h'r	4 h'r	.....	e.	heavy rain.
S. S. England, Liverpool, Eng.	30.43	772.9	.....	.....	.....	ese.	.....	.....	2	.....	2	.....	.....	0	0	.....	.....	clear.
S. S. Erin, London, England	30.30	769.6	67	19.4	.....	ene.	.....	.....	4	.....	0	.....	.....	0	0	.....	.....	very fine.
S. S. Holland, N. 44° 49′ W. 37° 57′	29.70	754.4	50	10.0	.....	nw.	.....	.....	4	.....	8	.....	nw.	5 h'r	5 h'r	cross	nw.	fair.
S. S. Italy, N. 50° 20′ W. 20° 28′	30.22	767.6	.....	.....	.....	ese.	.....	.....	5	.....	8	.....	e.	0	0	long	ese.	cloudy.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Niagara Havana, Cuba, W. I †	30.09	764.3	73	22.8	.....	ene.	.....	.....	1	.....	0	.....	.....	1 h'r	1 h'r	.....	.....	clear.
S. S. Santiago, Cienfuegos, Cuba, W. I.†	30.02	762.5	77	25.0	.....	e.	.....	.....	.....	.....	0	.....	.....	1 h'r	1 h'r	.....	.....	fine.
NEW YORK, HAVANA AND MEXICAN MAIL.																		
S. S City of Alexandria, N. 19° 56′, W. 93° 54′*†	29.93	760.2	80	26.7	.....	e.	.....	.....	4	.....	4	.....	e.	0	0	sm'h	.....	clear.
S. S. City of Puebla, N. 32° 28′, W. 75° 30′†	30.09	764.3	74	23.3	.....	wsw.	.....	.....	9	.....	5	.....	wsw.	.....	.....	g'ntle	wsw.	
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Atlas, Les Cayes, Hayti, W. I.*†	30.12	765.0	76	24.4	.....	e.	.....	.....	1	.....	.....	.....	.....	.....	.....	sm'h	.....	raining.
S. S. Lepanto, N. 40° 50′ W. 51° 00′*.	29.93	760.2	32	0.0	.....	nw.	.....	.....	4	.....	.....	.....	.....	.....	.....	.....	nnw.	cloudy.
S. S. P. C. Caland, N. 46° 35′, W. 38° 10′	29.39	746.5	50.9	10.5	.....	nw.	.....	.....	5	.....	.....	.....	.....	.....	.....	5	se.	
NORTH GERMAN LLOYD																		
S. S. Hermann, N. 49° 43′, W. 11° 33′†	30.10	764.5	55.4	13.0	.....	ene.	.....	.....	4	.....	7	.....	e.	0	0	light	wnw.	fair.
S. S. Hohenzollern, N. 10° 26′, W. 27° 27′*	29.93	760.2	68.9	20.5	.....	nne.	.....	.....	4	.....	8	.....	ne.	0	0	sm'h	ne.	fair.
S. S. Kronprinz F. Wilhelm, N. 52° 25′ E 3° 20′	30.40	772.1	50.0	10.0	.....	ne.	.....	.....	3–4	.....	0	.....	.....	0	0	3	e.	clear.
S. S. Leipzig, N. 37° 41′, W. 71° 31′	30.07	763.8	52.0	11.1	?	n.	.....	.....	4	.....	5	.....	nw.	0	0	.....	.....	fair.
S. S. Ohio, N. 35° 50′, W. 72° 27′	30.07	763.8	.....	.....	.....	wnw.	.....	.....	5	.....	9	.....	wnw.	0	0	mod.	wnw.	cloudy.
S. S. Rhein, N. 41° 54′, W. 46° 50′	29.81	757.2	.....	.....	.....	nnw.	.....	.....	4	.....	4	.....	nw.	snow	snow	mod.	nnw.	clear.
S. S. Salier, N 49° 54′, W. 12° 10′	30.26	768.6	53.6	12.0	.....	e.	.....	.....	5–6	.....	0	.....	.....	0	0	mod.	e.	clear.
S. S. Strassburg, N. 43° 49′, W. 45° 40′	29.75	755.6	33.0	0.6	89	n.	.....	.....	5–6	.....	9	.....	n.	7 h'r	7 h'r	r'gh	n.	hailing.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Belgic, San Francisco, Cal.†	29.96	761.0	48	8.9	85	s.	.....	.....	1	.....	10	.....	sw.	0	0	sm'h	.....	cloudy.
S. S. Oceanic, N. 34° 56′ E. 141° 12′*	30.15	765.8	61	16.1	77	sse.	.....	.....	5	.....	7	.....	s.	.....	.....	3	w.	overcast.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, New York, N. Y.†	30.15	765.8	.....	.....	.....	nne.	.....	.....	3	.....	10?	.....	nne.	0	0	.....	.....	clear.?
S. S. Seminole, Boston, Mass†	30.02	762.5	48	8.9	70	nw.	.....	.....	4	.....	1	.....	nw.	.....	.....	.....	.....	clear.
OREGON IMPROVEMENT COMPANY.																		
S. S. Mississippi, Seattle, Wash. Ter.†	29.79	756.7	49	9.4	78	sse.	.....	.....	2	.....	10	.....	s.	.....	.....	.....	.....	raining.
S. S. Willamette, Strait of Fuca, Wash. Ter.*†	29.63	752.6	43	6.1	83	se.	.....	.....	6	.....	6	.....	se.	0.1	3.	long	wsw.	rainy.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. City of Chester, N. 53° 10′, W. 128° 39′*†	29.42	747.3	37	2.8	?	var.	.....	.....	.....	.....	10	.....	e.	.....	.....	sm'h	.....	drizzling.
S. S. Columbia, N. 44° 38′ W. 124° 18′†	29.67	753.6	48	8.9	85	s.	.....	.....	6	.....	8	.....	ssw.	.....	.....	r'gh	s.	squally.
S. S. Oregon, Portland, Oregon†	29.73	755.1	45	7.2	84	calm	.....	.....	0	.....	10	.....	.....	.....	.....	.....	.....	raining.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, N. 32° 55′, W. 117° 39′†	30.16	766.1	53	11.7	80	se.	.....	.....	1	.....	0	.....	.....	.....	.....	sm'h	.....	clear.
S. S. Idaho, Seattle, Wash. Ter.†	29.72	754.9	46	7.8	92	se.	.....	.....	1	.....	10	.....	wnw.	.....	.....	.....	.....	cloudy.
S. S. State of California, San Francisco, Cal.†	30.01	762.2	46	7.8	84	calm	.....	.....	0	.....	8	.....	sw.	.....	.....	.....	.....	fair.
S. S. Victoria, San Francisco, Cal.†	30.02	762.5	48	8.9	85	sw.	.....	.....	1	.....	8	.....	sw.	0	0	.....	.....	cloudy.
PACIFIC MAIL STEAMSHIP CO.																		
S. S. Australia, Sydney, N. S. W.	30.19	766.8	63	17.2	83	w.	.....	.....	1	.....	2	.....	w.	.....	.....	.....	.....	clear.
S. S. City of New York, S. 33° 51′, E. 155° 20′†	30.13	765.3	73	22.8	85	s.	.....	.....	6	.....	10	.....	s.	rain	rain	h'vy	se.	cloudy.
S. S. City of Pekin, Panama, Panama†	29.89	759.2	73	22.8	85	n.	.....	.....	3	.....	0	.....	.....	.....	.....	sm'h	.....	clear.
S. S. City of Rio de Janeiro, N. 27° 32′, W. 115° 25′*†	30.20	767.1	59	15.0	70	nw.	.....	.....	2	.....	8	.....	nw.	.....	.....	sm'h	nw.	hazy.
S. S. City of Sydney, N. 12° 34′, W. 161° 19′†	30.01	762.2	77	25.0	82	ene.	.....	.....	6	.....	8	.....	ne.	0	0	h'vy	ne.	cloudy.
S. S. Colon, Aspinwall, Panama†	29.92	760.0	79	26.1	.....	nnw.	.....	.....	3	.....	10	.....	ene.	0	0	mod.	ne.	fair.
S. S. South Carolina, Punta Arenas, Costa Rica†	29 93	766.2	76	24.4	91	calm	.....	.....	0	.....	2	.....	ne.	0	0	sm'h	.....	fair.
QUEBEC STEAMSHIP COMPANY.																		
S. S. Muriel, Dominico, W. I.	29.99	761.7	78	25.6	.....	ene.	.....	.....	2	.....	0	.....	.....	0	0	sm'h	.....	fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.			Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Amount and kind.		Direction.						
								Force.	Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr. / Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
RED STAR LINE.																	
S. S. Belgenland, Antwerp, Belgium †	30.34	770.6	56	13.3	75	e.		4		3		e.	o	o			clear.
S. S. Nederland, N. 44° 10′, W. 37° 56′*†	30.15	765.8	49	9.4		wnw.		6		8		w.	rain	rain	cross	nw.	cloudy.
S. S. Rhynland, Antwerp, Belgium	30.30	769.6	59	15.0	70	ene.		3		0			o	o			clear.
S. S. Vaderland, N. 44° 47′, W. 37° 38′	29.66	753.4	47	8.3	92	wnw.		5		10		nw.	3 h'r	3 h'r	long	wnw.	cloudy.
S. S. Waesland, N. 40° 33′ W. 73° 20′	30.09	764.3	46	7.8		n.		3		0			2 h'r	2 h'r	sm'h	n.	clear.
ROTTERDAM LINE.																	
S. S. Schiedam, N. 41° 36′, W. 54° 40′*	29.92	760.0	42.3	5.7	74	calm		0		9		w.	o	o	mod.		cloudy.
STATE LINE.																	
S. S. State of Florida, N. 40° 26′ W. 62° 52′	29.56	750.8	52	11.1		wnw.		6		10		wnw.	light	light	rg'h	w.	cloudy.
THINGVALLA LINE.																	
S. S. Thingvalla, Copenhagen, Denmark†	30.48	774.2	52.7	11.5		nne.		2		2		nne.	o	o			clear.
WHITE STAR LINE.																	
S. S. Adriatic, N. 41° 06′, W. 62° 00†	29.64	752.8	49	9.4		e.		7		10			24 h'r	24 h'r	mod.	e.	raining.
S. S. Britannic, N. 50° 23′, W. 21° 06′†	30.19	766.8	51	10.6		ese.		4		5		e.	o	o	sm'h		d. clouds.
S. S. Celtic, Liverpool, England†	30.48	774.2	60	15.6		e.		3		0			o	o	....		fine.
S. S. Germanic, N. 40° 38′, W. 67° 00′†	30.04	763.0	40	4.4		n.		4		2		w.	o	o	sm'h	w.	fine.
WILSON LINE.																	
S. S. Otranto, N. 50° 54′, E. 0° 58′†	30.30	769.6	60	15.6		e.		4		0			o	o	sm'h		clear.
S. S. Romano, N. 47° 29′, W. 25° 03′†*	29.93	760.2	57	13.9		e.		3									
WINSOR LINE.																	
S. S, Catherine Whiting, Providence, R. I.†	30.13	765.3				nne.		1		0			o	o			
MISCELLANEOUS.																	
Schr. Addie Fuller, N. 23° 55′, W. 81° 54′†	30.20	767.1	76.5	24.7	84	ese.		3	0	5 k		e.	o	o	mod.	e.	d. clouds.
Bk. Adelaide, Rio de Janeiro, Brazil*†	30.00	762.0	82	27.8		ne.						ene.					
Schr. Ajax, N. 29° 04′, W. 89° 35′†	30.09	764.3				se.		1		8		se.	o	o	sla'h	se.	clearing.
Bk. Alpha, N. 26° 45′, W. 67° 05′†	30.11	764.8	71	21.7		e.		1		7		e.	o	o	mod.	ne.	fair.
Bk Antioch, S. 29° 45′, W. 28° 45′*†	30.00	762.0	79	26.1		nne.		6		1		se.	o	o	sm'h	se.	clear.
Schr. Asa Eldridge, Charlotte Harbor, Florida†	30.21	767.3				ne.		3		5		ese.	2 h'r	2 h'r			hazy.
Bk. Aureola, N. 23° 57′ W. 35° 34′*†	30.24	768.1	76	24.4		sw.		1		5		s.	o	o	mod.	nnw.	fair.
Schr Annie M. Smull, S. 40° 01′. E. 8° 34′*†	30.00	762.0	58	14.4		nw.						nw.	o	o			
Bk. Bergenseren, N. 36° 24′, W. 3° 30′†	29.84	757.9				wnw.		1				nw.	o	o			clear.
Cerrie Heckle, N. 32° 10′ W. 71° 55′*†	30.31	769.6	70	21.1		wsw.		4		2		w.	o	o	sm'h	ese.	clear.
Bk. Celestina, S. 17° 58′ W. 35° 40′*†	29.96	761.0				e. to se.		2		2		e.	o	o	sm'h	e.	
Bk. Champion, N. 39° 11′, W. 64° 49′†	29.76	755.9				se		9		10		se.	8 h'r	8 h'r	r'gh	e.	
Bk. E. L. Pettingill, N. 10° 40′ W. 122° 13′†	29.90	759.4				nne.		4		8		ne.	o	o	mod.	ne.	d. clouds.
S. Enoch Train, N. 49° 23′ W. 20° 10′*	30.08	764.0				se.		3		2		se.	shr's	sh'rs	light	nw.	fine.
S. Exporter, N. 27° 20′, W. 29° 40′*†	30.20	767.1				w. to s.		3		1		w.	o	o	long	nw.	fine.
S. Festina Lente, N. 50° 26′, W. 37° 30′*	29.56	750.8	52	11.1		se.		6		10		se.	12 h'r	12 h'r	hv'y	sse.	misty.
U. S. F. C. S. Fish Hawk, Washington, D. C.†	30.27	768.8	58	14.4	93	ne.		2		6		calm	o	o			cloudy.
S. Grecian, S. 32° 20′, W. 29° 13′*†	29.90	759.4	72	22.2		nw.		6		10		nw.	8 h'r	8 h'r	mod.	nw.	raining.
Bk. Freya, N. 36° 46′, W. 68° 38′			60	15.6		nnw.		5		8		nw.	o	o	mod.	nw.	cloudy.
Bk. Granville, S. 37° 16′, E. 4° 33′*†	30.40	772.1				ne.		1				nne.	o	o	long	s.	cloudy.
Bk. Hattie G. McFarland, N. 36° 00′, W. 75° 14′*†	30.15	765.8	64	17.8		w.		3		9		sw.	o	o	sm'h	s.	cloudy.
Schr. Henry Denison, Port Antonio, Jamaica, W. I†	29.98	761.5				ene.		4		3		ese.	rain	rain			fair.
S. Hedwig, N. 49° 22′, W. 36° 11′	29.45	748.1	53.2	11.8	99	se.		8		10		se.	1 h'r	1 h'r		se.	overcast.
Schr. John L. Thomas, N. 28° 49′ W. 70° 57′*†	30.11	764.8				w.				2		w.	o	o	light	ene.	fine.
Bg John Wesley, Sagua la Grande, Cuba, W. I†	29.98	761.5	76	24.4		sse.		2		0			o	o			clear.
Bk. Jona, N. 37° 04′, W. 63° 09′*†	29.80	756.9				nw.		7		10		n.	5 h'r	5 h'r	cross	var.	cloudy.
Bkt. Josephine, Aspinwall, Panama*†	30.02	762.5	82	27.8	67	nw.		4		5			o	o			fair.
Lake Erie, N. 39° 00′ W. 72° 00′	30.13	765.3				ene.		4				e.	o	o	sm'h		hazy.
Bk. Liberia, N. 30° 18′, W. 29° 04′*†	30.00	762.0	67	19.4	90	ssw.		4		8		nw.	o	o		nw.	fine.
Light House Tender, Laurel, Key West, Florida†	30.10	764.5	77	25.3		ese.		2		4		se.	o	o	sm'h		fair.
Schr. Maggie Abbott, N. 29° —′. W. 74° —′*†	30.24	768.1				nne							o	o	long	sse.	clear.
S. S. Malabar, Bristol Channel*†	30.27	768.8				ne.		3				ne.	o	o	sm'h		
Bg. Medina, Key Francis, W. I†	30.11	764 8				se.		2		8		e.					fine.
S. S. Nebo, S. 22° 25′, W. 41° 08′*†	29.85	758.2				nne.		1		0			o	o	sm'h		clear.
Bk. Peppina, N. 44° 13′. W. 12° 09′†	30.06	763.5	57	13.9	81	e.		4		8		e.			mod.	e.	cloudy.
Bk. Pilgrim, S. 33° 40′, E. 152° 07′*†	30.10	764.5				s.		3		0			o	o	cross		fine.
S. S. Radnorshire, N. 40° 18′. W. 44° 50′*†	29.70	754.4				ene.		4		10		ene.	snow	snow	con.		heavy snow.
S. Salisbury, N. 24° 05′, W. 38° 06′*	30.00	762.0	69.1	20.6	69	ssw.		3		0			o	o	sm'h	ssw.	clear.
Bkt. Spotless, N. 3° 16′, W. 27° 01′*†	29.90	759.4										se.			mod.	se.	cloudy.
Bk. Stella, S. 58° 00′, W. 70° 50′*	29.69	754.1	35.6	2.0	95	ssw.		6		9		s.	o	o	mod.	s.	overcast.
S. S. Victoria J. Peed, Barranquilla, U. S. C.*†	29.11	739.4				se.		1		1							
S. Wm. Woodbury, N. 48° 42′, W. 31° 08′*†	29.63	752.6	56	13.3		se.		6				s.			cross	se.	clear.

International Chart I. April 8, 1882. Isobars and Isotherms.



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON APRIL 9, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours	.....	.....	30.02	762.6	65.1	18 4	80	sw.	.....	.....	3	.....	0	.....	.....	0.138	3.5	clear	Moiroud.
Algiers	.....	.....	29.92	760.0	59.0	15.0	85	n.	.....	.....	3	.....	9	.....	.....	0.252	6.4	covered	Nicolas.
La Calle	.....	.....	29.87	758.8	57.2	14.0	87	e.	.....	.....	5	.....	5	.....	.....	0.413	10.5	cloudy	Fonfrède.
Tunis	.....	.....	29.86	758.4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.04	762.9	49.6	9.8	79	nw.	.....	.....	1	.....	5	.....	.....	0.390	9.9	cloudy	Dumas.
Tebessa	.....	.....	29.97	761.1	48.9	9.4	37	sw.	.....	.....	3	.....	3	.....	.....	0.827	21.0	pretty fair	Derché.
Geriville	.....	.....	.....	.....	47.5	8.6	68	n.	.....	.....	4	.....	8	.....	.....	0.110	2.8	very cloudy	Lonchamp.
Laghouat	.....	.....	30.04	762.9	57.2	14.0	67	w.	.....	.....	2	.....	2	.....	.....	0	0	fair	Abraham.
Biskra	.....	.....	29.97	761.3	67.3	19.6	50	n.	.....	.....	1	.....	10	.....	.....	inap.	inap.	covered	Malau.
Australian.																			
Melbourne, Victoria	30.01	762.2	30.10	764.5	62.0	16.7	59	ne.	6	2.7	.....	.....	3	.....	.....	0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.41	747.1	29.97	761.2	51.1	10.6	39	ne.	.....	.....	2	.....	8	.....	.....	0	0	.....	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.34	745.1	30.14	765.5	32.7	0.4	85	w.	6.9	3.1	.....	.....	10	.....	.....	0.063	1.6	.....	Dr. Wierzbiski.
Eperies	29.15	740.3	30.05	763.3	40.1	4.5	38	n.	.....	.....	3	0	7 ks	.....	s.	0	0	.....	Julius Mikolik.
Gratz	28.78	731.0	30.08	763.9	37.8	3.2	77	e.	.....	.....	2	.....	10	.....	.....	0	0	.....	Andreas Rospini.
Hermannstadt	28.56	725.5	30.02	762.5	46.6	8.1	59	s.	.....	.....	6	.....	8	.....	.....	0	0	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.65	727.8	30.03	762.8	40.6	4.8	70	ene.	.....	.....	3	.....	10	.....	.....	0.150	3.8	.....	The Staff.
Lemberg	29.09	738.9	30.11	764.9	37.0	2.8	54	e.	.....	.....	2	.....	10	.....	.....	0.256	6.5	.....	Dr. T. Stanecki.
Pola	29.84	758.0	29.96	760.9	48.4	9.1	70	ne.	.....	.....	2	.....	10	.....	.....	0	0	.....	I. R. Hydrographic Office.
Szathmar	29.56	750.8	30.02	762.6	42.1	5.6	61	ne.	.....	.....	2	.....	10	.....	.....	0.094	2.4	.....	Joseph Midlinszky, S. J.
Szegedin	29.74	755.5	30.03	762.8	45.9	7.7	37	n.	.....	.....	1	.....	4	.....	.....	0	0	.....	Karl Stancel.
Trieste	29.90	759.5	30.00	762.1	47.8	8.8	55	ne.	.....	.....	2	.....	10	.....	.....	0	0	.....	Rieder.
Vienna	29.39	746.4	30.14	765.5	32.0	0.0	90	n.	.....	.....	1	.....	10	.....	.....	0.157	4.0	.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	30.27	768.8	30.37	771.4	41.0	5.0	77	sse.	6	2.7	.....	.....	9	.....	.....	0	0	overcast	W. Boswell.
Armagh, Observatory	30.11	764.8	30.36	771.1	51.6	10.9	61	e.	6	2.7	.....	.....	.....	.....	.....	.....	.....	.....	S. Call.
Bidston, Liverpool Obs'y	.....	.....	30.33	770.4	47.7	8.7	65	ese.	13	5.8	.....	.....	0	.....	.....	.....	.....	misty	John Hartnup.
Bolton, Sharples	29.77	756.1	30.32	770.1	48.7	9.3	61	ese.	12	5.4	.....	.....	0	.....	.....	.....	.....	blue sky	Thomas Mackereth. [A.S.
Bradford, Yorkshire	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0	0	.....	J. McLandsborough, F. R
Bridgetown, Barbadoes	29.92	760.0	29.95	760.7	81.0	27.2	74	ne.	.....	.....	2	.....	3	.....	.....	.....	.....	d. clouds	Corpl. J. Surgenor, A. H.C.
Cardington	.....	.....	30.25	768.3	54.0	12.2	53	ne.	.....	.....	1.0	.....	3	.....	.....	.....	.....	blue sky	John McLaren.
Chatham, School M. E.	30.12	765.0	30.26	768.6	53.1	11.7	70	ne.	.....	.....	1	.....	7	.....	.....	.....	.....	d. clouds	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	30.02	762.5	30.25	768.3	50.8	10.4	65	e.	.....	.....	3	.....	0	.....	.....	.....	.....	blue sky	The Staff.
Fort Napier, Natal	27.55	699.8	29.76	755.9	74.2	23.4	59	se.	.....	.....	1	.....	2	.....	.....	.....	.....	blue sky	Pvt. E. K. Annis, A.H.C.
Free Town, Sierra Leone	29.56	750.8	29.79	756.7	89.0	31.7	52	nw.	.....	.....	1	.....	3	.....	.....	.....	.....	blue sky	Sergt. John Robinson.
Gibraltar, Mediterranean	30.00	762.0	30.05	763.3	67.2	19.6	80	sw.	.....	.....	4	.....	2	.....	.....	.....	.....	blue sky	Cpl. O. Baldwin.
Glasgow, Observatory	30.09	764.3	30.30	769.6	46.0	7.8	63	e.	.....	.....	2	.....	5	.....	.....	.....	.....	d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	30.07	763.8	30.24	768.1	56.8	13.8	59	ene.	.....	.....	2	.....	2	.....	.....	.....	.....	blue sky	The Staff.
Guernsey	29.91	759.7	30.21	767.3	49.0	9.4	85	ne.	.....	.....	1	.....	6	.....	.....	.....	.....	d. clouds	A. Collenette, F. M. S.
Kew, Observatory	30.21	767.3	30.25	768.3	52.4	11.3	48	nne.	16	7.2	.....	.....	5	.....	.....	.....	.....	hazy	The Staff.
Leicester, Museum	30.05	763.3	30.31	769.9	53.5	11.9	53	ne.	.....	.....	1	.....	4	.....	.....	.....	.....	d. clouds	J. C. Smith.
Malta, Mediterranean	29.67	753.6	29.74	755.4	56.8	13.8	93	ne.	.....	.....	3	.....	10	.....	.....	blank	blank	overcast	I. H. Whysall.
Nassau, Bahamas	30.04	763.0	30.09	764.3	74.2	23.4	76	se.	.....	.....	1	.....	4	.....	.....	.....	.....	d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.77	756.1	30.31	769.9	50.0	10.0	62	nne.	.....	.....	1	.....	4	.....	.....	.....	.....	d. clouds	John Mac Email.
Oxford, Radcliffe Obs'y	30.04	763.0	30.27	768.8	52.2	11.2	59	nne.	.....	.....	3	.....	1	.....	.....	.....	.....	blue sky	The Staff.
Plymouth	30.15	765.8	30.23	767.8	56.0	13.3	50	ene.	.....	.....	4	.....	0	.....	.....	.....	.....	blue sky	John Merrifield.
Sandwick Manse, Orkneys	.....	.....	30.32	770.1	44.4	6.9	88	se.	17	7.6	.....	.....	0	.....	.....	.....	.....	blue sky	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.84	757.9	29.90	759 4	54.0	12.2	43	nne.	.....	.....	2	.....	10	.....	.....	.....	.....	gloomy	W. H. Lyne.
Sheffield	30.04	763.0	30.34	770.6	50.7	10.4	67	ne.	.....	.....	1	.....	8	.....	.....	0	0	overcast	W. F. Cooper.
Silloth Rectory	30.28	769.1	30.31	769.9	52.5	11.4	51	e.	.....	.....	1	.....	0	.....	.....	0	0	blue sky	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	30.34	770.6	49.3	9.6	56	se.	12	5.4	.....	.....	0	.....	.....	.....	.....	blue sky	Rev. S. J. Perry.
Stratfield Turgiss	30.02	762.5	30.24	768.1	58.3	14.6	65	ne.	.....	.....	2	.....	0	.....	.....	.....	.....	blue sky	Rev. G. H. Griffiths, F.M.S.
Truro, Royal Institution	30.20	767.1	30.23	767.8	62	16.7	61	e.	.....	.....	4	.....	0	.....	.....	.....	.....	blue sky	W. Newcombe.
Valencia, Observatory	30.21	767.3	30.24	768.1	58.6	14.8	61	s.	12	5.4	.....	.....	0	.....	.....	.....	.....	misty	The Met'g'l Office.
Canadian.																			
Bathurst, N. B.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.83	757.7	29.88	758.9	26	— 3.3	84	nw.	12	5.4	.....	.....	10 n	.....	calm	0.030	0.8	light snow	H. J. Cundall, C. E.
Chatham, N. B*	29.88	758.9	29.94	760.5	28	— 2.2	77	nw.	12	5.4	.....	.....	10 s	.....	nw.	0	0	cloudy	G. A. Blair.
Father Point, Quebec*	30.00	762.0	30.03	762.7	26	— 3.3	96	n.	17	7.6	.....	.....	10 s	.....	nw.	0	0	cloudy	J. McWilliams.
Fort Garry, Manitoba*	29.43	747.5	30.30	769.6	27	— 2.8	92	e.	14	6.3	.....	5 k	5 ks	se.	se.	0	0	cloudy	James Stewart.
Halifax, N. S*	29.78	756.4	29.91	759.7	29	— 1.7	84	w.	5	2.2	.....	10 k	0	nw.	.....	0	0	cloudy	A. Allison.
Kingston, Ontario*	29.69	754.1	30.04	763.0	36	2.2	64	n	14	6.3	.....	.....	10 k	.....	w.	0	0	cloudy	A. P. Knight, M. A.
Montreal, Quebec*	29.86	758.4	30.08	764.0	31	— 0.6	68	calm	0	0	.....	0	0	.....	.....	0	0	clear	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.40	746.7	30.12	765.0	31	— 0.6	78	ne.	18	8.0	.....	2 cs	0	nw.	.....	0	0	fair	Rev. R. Mosley.
Port Dover, Ontario	29.26	743.2	29.97	761.2	37	2.8	90	ne.	16	7.2	.....	10 k	0	sw.	.....	0	0	cloudy	H. Morgan.
Port Stanley, Ontario	29.28	743.7	29.93	760 2	41	5.0	67	e.	12	5.4	.....	8 ck	0	w.	.....	0	0	cloudy	M. Payne.
Quebec, Quebec*	29.75	755.6	30.09	764.3	26	— 3.3	76	n.	.....	.....	1	10 s	.....	.....	n.	0	0	cloudy	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.72	754.9	30.21	767.3	23	— 5.0	73	n.	8	3.6	.....	.....	10 ks	.....	n.	inap.	inap.	light snow	W. H. McIntyre.
Sangeen, Ontario*	29.29	744.0	30.03	762.7	36	2.2	56	ne.	14	6.3	.....	.....	10 ks	.....	.....	0	0	cloudy	.....
St. Andrews, N. B	29.90	759.4	29.95	760.7	30	— 1.1	76	nnw.	7	3.1	.....	0	0	.....	.....	0	0	clear	.....
Sydney, C. B*	29.73	755.1	29.79	756.7	23	— 5.0	84	n.	8	3.6	.....	.....	10 n	.....	.....	0.07	1.8	cloudy	T. C. Hill, C. E.
Toronto, Ontario*	29.63	752.6	30.03	762.7	38	3.3	53	ne.	11	4.9	.....	5 ck	5 ks	sw.	sw.	0	0	cloudy	Magnetic Observatory.
Yarmouth, N. S*	29.89	759.2	29.96	761.0	33	0.6	78	ne.	3	1.3	.....	5 ok	0	nw.	.....	0	0	fair	Lt. F. E. Wilmot, R. N.
Sub-series.																			
St. Johns, Newfoundland	29.56	750.8	29.83	757.7	25	— 3.9	.....	sw.	1	0.4	.....	10 k	10 s	.....	.....	0	0	.....	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	29.92	760.0	29.95	760.7	69.0	20.6	73	e.	13.3	5.9	.....	0	0	.....	.....	0	0	clear	John Duthie.
Cape Town, C. G. H. Obs'y	29.94	760.5	29.98	761.5	74.8	23.8	66	sse.	19	8.5	.....	2	2	.....	.....	0	0	.....	The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	OBSERVERS.
CHINESE (*Sub-series*).																			
Hankow	29.69	754.1	29.97	761.2	60.8	16.0	98	e.			2		10			0.03	0.8		N. Titoushkin.
Zi-Ka-Wei, near Shanghai.	29.88	758.9	29.90	759.5	55.0	12.8	96	ese.	9.6	4.3			10 n			0.122	3.1	light rain	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	30.37	771.4	30.42	772.6	44.1	6.7	39	se.	13	6			1						Oversergent Fischer.
Fanöe	30.33	770.3	30.35	770.8	47.1	8.4	61	e.			4		8						Overloerer Lauridsen.
Godthaab, Greenland	30.11	764.7	30.15	765.8	20.1	— 6.6	89	nne.			4		2						S. Kleinschmidt.
Stykkisholm, Iceland	30.26	768.5	30.30	769.6	28.8	— 1.8	96	e.			6		10					snowing	A. O. Thorlacius.
Thorshavn	30.28	769.1	30.32	770.0	47.7	8.7	81	w.	18	8			3						Overloerer Bergh.
Vestervig	30.28	769.2	30.37	771.5	45.0	7.2	61	sse.			2		9						Loerer Oesterboi.
FRENCH.																			
Agen, Normal School	29.42	747.2	30.07	763.8	62.6	17	64	calm			0		0			0	0	clear	M. Labroue, Director.
Alençon, Normal School	29.60	751.9	30.15	765.9	55.4	13	52	ne.			2		k	n.	w.	0	0	slightly cl'dy	M. Nicot, Director.
Arras, Engineer School	29.87	758.7	30.13	765.2	56.8	13.8	39	nne.			1	0	2 k		ne.	0	0	clear	Capt. Bertrand, Dir.
Avignon, Normal School	29.81	757.1	29.89	759 1	64.8	18.2	36	nnw.			2		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.50	749.2	30.09	764.3	55.4	13	13	se.			3		0			0	0	clear	M. Saillard, Director.
Beauvais, Normal School	29.84	757.9	30.11	764.8	48.0	8.9	34	e.			1		2		ne.	0	0	slightly cl'dy	M. Frère Eugène Mari.
Besançon, Normal School	29.12	739.7	30.02	762.6	55.0	12.8	48	ne.			1		1		nw.	0	0	clear	M. Gobin, Director.
Bordeaux, Observatory	29.74	755.4	30.00	762.0	61.7	16.5	39	n.			1		0			0	0	clear	M. Rayet, Director.
Bourges, Normal School	29.56	750.8	30.15	765.9	59.0	15	21	ne.			1					0	0		M. Postel, Director.
Brest, Naval Observatory	29.91	759.6	30.15	765.8	59.7	15.4	56	ne.			2		0			0	0		M. de Kermaree, Dir.
Caen, Normal School	30.08	764.1	30.16	766.0	55.4	13	64	ne.			1		0			0	0	clear	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.76	755.9	30.08	764.0	66.0	18.9	39	calm			0		0			0	0	clear	M. Jadot, Director.
Charleville, Normal School																			M. Grimard, Director.
Clermont-Ferrand Obs'y	28.63	727.3	29.98	761.5	57.6	14.2	32	ne.			2		0			0	0	clear	M. Alluard, Director.
Cluny, Normal School	29.12	739.6	29.99	761.7	55.4	13	93	n.			4					0	0		M. de Villemontée, Dir.
Commercy, Normal School.	29.22	742.1	30.09	764.2	53.6	12	43	e.			3	0	0			0	0	clear	Dr. Coulet, Director.
Gap, Normal School	27.28	692.9	29.76	755.8	59.9	15.5	21	n.			2					0	0		M. Jeangirard, Director.
Grenasque, du. Rhone	28.72	729.5	29.82	757.4	64.6	18.1	26	wnw.			3		1		sw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.10	739.2	29.86	758.4	59.0	15	50	n.			3		n			0	0		M. Ablard, Director.
Guéret, Normal School	28.45	722.6	30.05	763 2	54.5	12.5	59	ne.			1				ne.	0	0		M. Rivoire, Director.
Lamballe, Normal School	29.91	759.8	30.19	766.8	57.2	14	80	ne.			2		1		ne.	0	0	clear	M. Olliffrault, Director.
Lescar, Normal School	29.47	748.6	30.03	762.8	64.0	17.8	71	wsw.			1	0	2 k			0	0	slightly cl'dy	M. Chauvin, Director.
Lorient, Naval Observatory	30.05	763.2	30.15	765.8	67.1	19.5	51	e.			1		0			0	0	clear	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.91	734.2	29.96	761.0	55.6	13.1	26	n.			3	0	0			0	0	clear	M. André, Director.
Mans, Normal School	29.87	758.8	30.19	766.7	57.0	13.9	96	ne.			3		0			0	0	clear	M. Piboen, Director.
Marseille, Observatory	29.59	751.5	29.85	758.3	65.0	18.4	50	w.			2		2		w.	0	0		M. Stephan, Director.
Montlouis l'Instituteur	24.75	628.6	29.59	751.6	46.0	7.8	44	sw.	9.4	4.2			6	n.					M. Cave, for Dr. Fines.
Montpellier, Normal School	29.73	755.1	29.86	758.4	68.0	20	47	se.			2		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.26	743.2	30.02	762.4	53.6	12	41	ne.			2	2 ck	0	n.		0	0	slightly cl'dy	M. Hasse, Director
Nantes, Observatory	29.98	761.4	30.14	765.6	64.8	18.2	32	nne.			1–3	0	0			0	0	clear	M. Larocque, Director.
Perpignan, Observatory	29.79	756.7	29.90	759.4	68.5	20.3	28	nw.	20.6	9.2			0			0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.15	537.3			30.0	— 1.1		ne.			1		10		ne.	0.071	1.8	snowy	Gen'l de Nansouty, Dir.
Privas, Normal School	28.89	733.7	29.94	760.5	61.2	16.2	37	n.			1		0			0	0	clear	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.08	636.9			35.6	2.0	67	nne.			3		0			0	0	clear	M. Alluard, Director.
Rochefort, Naval Obs'y	30.01	762.3	30.04	763.1	64.0	17.8	100	ne.			1		0			0	0	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.86	758.4	30.07	763.8	61.2	16.2	33	ne.			4		0			0	0	clear	M. Mouillot, Director.
Rodez, Normal School	27.81	706.3	29.97	761.2	51.4	10.8	85	nw.			1		0			0	0	clear	M. Serger, Director.
Rouen, Normal School	30.11	764.9	30.16	766.1	54.5	12.5	41	ene.			1		5			0	0	cloudy	M. Brotier.
Saint Maur, Observatory	29.96	760.9	30.12	765.1	56.7	13.7	32	ne.			3		1		e.	0	0		M. Renou, Director.
Toulouse, Observatory	29.28	743.8	30.01	762.2	65.7	18.7	51	nw.			3		1	w.		0	0	clear	M. Baillaud, Director.
Versailles, Observatory	29.64	752.8	30.13	765.2	56.1	13.4	32	e.			4					0	0		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.84	758.0	30.13	765.4	58.3	14.6	32	e.			1		1		ene.	0	0		M. Marié Davy, Director
GERMAN.																			
Bamberg	29.26	743.2	30.12	765.0	41.0	5.0	46	ne.			6	0	6 k		ne.	0.020	0.5		Prof. Dr. Hoh.
Berlin	30.08	764.0	30.26	768.6	45.3	7.4	28	e.			4		6			0	0		Prof. Dr. Arndt.
Breslau	29.70	754.4	30.24	768.0	34.5	1.4	74	ne.			3		10					snowing	Royal University Obs'y.
Carlsruhe	29.65	753.0	30.10	764.4	48.6	9.2	46	ne.			1		10	ne.		0	0		Albert Senz.
Cassel	29.43	747.6	30.15	765 7	46.8	8.2	28	ne.			4		5	ne.		0	0		Dr. H. Möhl.
Frankfort on the Main	29.76	755.8	30.13	765.2	48.4	9.1	41	nne.			2		8			0	0		Physical Society.
Friedrichshafen	28.53	724.7	29.98	761.4	50.4	10.2	57	ne.			6		3	e.		0	0		Wilhelm, Chief Tel.
Hamburg	30.24	768.1	30.34	770.5	44.2	6.8	50	e.			3		7			0	0		E. Preller.
Kiel	30.32	770.2	30.34	770.6	44.4	6.9	49	ene.			2		3			0	0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.80	756.9	30.23	767.9	44.2	6.8	28	e.			6		7	e.		0	0	stormy	H. Leppig, Asst.
Magdeburg	30.08	763.9	30.27	768.8	45.5	7.5	32	e.			3	0	6 ks		ne.	inap.	inap.		Dr. Assmann.
Memel	30.45	773.3	30.49	774.5	45.7	7.6	35	e.			4	6 ck	0						Issermann.
Munich	28.18	715.8	30.04	763.1	37.6	3.1	83	calm			0		10			0.197	5.0	snow & sleet.	Central Station.
Neufahrwasser	30.38	771.7	30.40	772.1	41.4	5.2	50	ne.			3		3			0	0		A. Lothes.
Neustadt, Palatinate	29.54	750.4	30.07	763.8	49.5	9.7	41	nne.			5		9	n.		0	0		Dicknether.
Stuttgart	29.10	739.1	30.01	762.2	46.4	8.0	57	n.			2		10			0	0		Prof. Dr. Schoder.
Wustrow	30.37	771.4	30.39	772.0	45.5	7.5	48	ese.			3	0	3 k			0	0		Profs. Brandes & Reimer.
GREEK.																			
Athens	29.54	750.4	29.95	760.6	48.0	8.9		ne.			2.0	10				0.764	19.4	sprinkling	Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.78	756.4	29.83	757.7	85.3	29.6	54	sw.	29.0	13.0			0			0	0	misty	
Deesa	29.28	743.6	29.73	755.2	94.7	34.8	20	nnw.	9.8	4.4			0			0	0	blue sky	
Bombay	29.77	756.2	29.81	757.2	85.1	29.5	61	nw.	18.0	8.0			0			0	0	blue sky	
Poona, Yarrowda	27.93	709.4	29.72	755.0	95.2	35.1	21	wnw.	24.0	10.7			5	w.		0	0	d. clouds	
Belgaum	27.28	693.0	29.78	756.5	83.6	28.7	59	wsw.	9.0	4.0			8	nw.		0	0	misty	
Lahore	29.06	738.2	29.81	757.1	79.3	26.3	35	n.	3.2	1.4			0			0.13	3.3	blue sky	
Roorkee	28.79	731.4	29.68	754.0	81.2	27.3	26	nw.	3.0	1.3			3			0	0		
Agra	29.13	739.9	29.68	753.8	93.1	33.9	21	w.	5.7	2.6			0			0	0		
Nagpur	28.65	727.8	29.65	753.2	100.3	37.9	21	calm	3.2	1.4			4		sw.	0	0	d. clouds	
Jubbulpore	28.39	721.1	29.70	754.5	93.7	34.3	16	w.	3.5	1.6			3		nw.	0	0	d. clouds	
Lucknow	29.32	744.6	29.68	753.9	95.0	35.0	31	wnw.	2.6	1.2			0			0	0	blue sky	
Allahabad	29.33	745.0	29.63	752.7	96.7	35.9	26	s.	4.6	2.1			0			0.02	0.5	blue sky	
Patna	29.51	749.6	29.69	754.2	92.7	33.7	28	wnw.	4.4	2.0			0			0	0	blue sky	
Hazaribagh	27.74	704.5	29.70	754.4	87.8	31.0	22	nnw.	9.5	4.2			9		n.	0	0	Thunder	
Cuttack	29.69	754.0	29.77	756.1	80.4	26.9	75	n.	6.8	3.0			9			0.10	2.5	d. clouds	
Calcutta, Allpore	29.70	754.4	29.72	755 0	85.1	29.5	74	ssw.	17.0	7.6			9	sw.	sw.	0	0	d. clouds	
Dhubri	29.63	752.6	29.75	755.6	73.0	22.8	86	ne.	13.2	5.9			9	w.	sw.	0.77	19.6	gloomy	
Chittagong	29.76	755.9	29.85	758.2	73.6	23.1	87	n.	4.4	2.0			9			0.22	5.6	d. clouds	
Sibsagar	29.51	749.5	29.85	758.2	68.5	20.3	92	ne.	3.3	1.5			10	w.	w.	0.31	7.9	overcast	
Jeypore	28.30	718 8	29.71	754.7	89.5	31.9	9	nw.	8.1	3.6			0			0	0	blue sky	
Zanzibar, Africa	29.83	757.7			84.1	28.9	76	sw.	3.1	1.4			5			0.01	0.3	d. clouds	
Bellary	28.28	718.3			98.5	36.9	20	se.	3.7	1.7		4 ck	5	sw.		0	0	gloomy	
Trichinopoly	29.55	750.6			97.4	36.3	29	e.	1	0.4			0			0	0	blue sky	
ITALIAN.																			
Udine	29.60	751.9	30.01	762.3	48.0	8.9	50	e.	1.8	0.8			5			0.083	2.1		Prof. Giovanni Clodig.
Milan	29.39	746.4	29.90	759.5	59.4	15.2	38	e.	7.4	3.3			5	n.		0	0		Prof. Schiaparelli.
Padua	29.89	759.1	30.00	761.9	45.5	7.5	69	nne.	19.2	8.6			10			0	0		Prof. Dott. Lorenzoni.
Moncalieri	28.97	735.8	29.87	758.7	57.6	14.2	42	n.	2.5	1.1			4	e.		0	0		Prof. P. F. Denza.
Genoa	29.69	754.1	29.88	758.9	59.9	15.5	40	s.	5.6	2.5			0			0	c		Prof. G. M. Garibaldi.
Mondovi	27.95	709.9	29.87	758.7	51.8	11.0	43	nw.			4		1	nw.		0	0		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
ITALIAN.—Continued.																			
Pesaro	29.85	758.1	29.89	759.2	50.7	10.4	47	e.	15.4	6.9	.....	.....	10	se.	.....	0	0	.....	Prof. Luigi Guidi.
Florence	29.60	751.8	29.85	758.2	61.2	16.2	22	nw.	.....	.....	2	.....	5	w.	.....	0	0	.....	Prof. Costantino Pitter.
Leghorn	29.73	755.2	29.82	757.4	58.6	14.8	31	w.	4.9	2.2	.....	.....	8	nw.	.....	0	0	.....	Prof. P. Monte.
Rome	29.70	754.3	29.87	758.7	61.5	16.4	43	wsw.	15.4	6.9	.....	.....	4	w.	.....	0	0	.....	Prof. P. S. Ferrari.
Lecce	29.61	752.0	29.86	758.4	64.8	18.2	53	wnw.	9.4	4.2	.....	.....	4	.....	.....	0	0	.....	Prof. C. de Giorgi.
Cosenza	28.97	735.7	29.85	758.3	57.9	14.4	72	wsw.	4.9	2.2	.....	.....	5	sw.	.....	0	0	.....	Prof. D. Conti.
Cagliari	29.66	753.4	29.85	758.3	61.3	16.3	52	calm	.....	.....	0	.....	4	e.	.....	0.118	3.0	.....	Prof. A. Pacinotti.
Palermo	29.59	751.6	29.84	757.9	57.2	14.0	61	se.	3.8	1.7	.....	.....	10	.....	.....	0.039	1.0	.....	Prof. G. Ciaccíatore.
Syracuse	29.77	756.1	29.81	757.2	55.6	13.1	64	ene.	16.1	7.2	.....	.....	10	ene.	.....	0.130	3.3	.....	Prof. Vincenzo Guiliano.
Sub-series.																			
Naples, S. R	29.32	744.7	29.84	757.9	60.8	16.0	44	sw.	3.8	1.7	.....	.....	5	sw.	.....	0	0	.....	Prof. T. Brioschi.
Stelvio	21.92	556.7	.....	.....	27.7	— 2.4	38	ne.	.....	.....	2	.....	8	.....	.....	0	0	misty	Prof. P. F. Denza.
Valdobbia	21.98	558.2	.....	.....	34.7	1.5	62	n.	.....	.....	2	.....	9	.....	.....	0	0	covered	Prof. P. F. Denza.
JAPANESE.																			
Aomori	29.92	759.9	29.95	760.7	46.2	7.9	93	e.	1.2	0.5	.....	.....	10 s	.....	.....	0.067	1.7	overcast	K. Ogawa.
Hakodate	29.92	759.9	29.93	760.2	43.0	6.1	84	ne.	3.0	1.3	.....	.....	10	.....	.....	0.205	5.2	overcast	
Hiroshima, I. M. Obs'y	29.94	760.5	29.96	761.0	54.6	12.6	91	nne.	5.9	2.6	.....	.....	0	.....	.....	0	0	clear	K. Sasaki.
Kanazawa	29.92	759.9	30.03	762.7	49.1	9.5	92	nnw.	3.0	1.3	.....	.....	10 s	.....	.....	0.025	0.6	gloomy	S. Endo.
Kioto	29.82	757.4	29.99	761.7	49.1	9.5	85	nnw.	2.4	1.1	.....	0	0	.....	.....	0	0	clear	M. Tojima.
Kochi	29.95	760.7	29.97	761.2	60.0	15.6	78	ssw.	6.0	2.7	.....	0	0	.....	.....	0	0	clear	
Nagasaki, I. M. Obs'y	29.83	757.7	30.03	762.7	55.4	13.0	93	sw.	0.7	0.3	.....	0	1 s	.....	.....	0	0	clear	S. Takehayashi.
Niigata	29.94	760.5	29.97	761.2	50.4	10.2	93	n.	1.3	0.6	.....	10 ck	0	.....	.....	0.040	1.0	covered	
Nobiru	29.93	760.2	29.94	760.5	47.1	8.4	100	nnw.	3.1	1.4	.....	0	2 s	.....	.....	0.005	0.1	fair	H. Midzushina.
Supporo	.....	.....	.....	.....	37.0	2.8	90	calm	0	0	.....	.....	0	.....	.....	0	0	clear	
Tokei Obs'y, Yeddo	29.86	758.4	29.93	760.2	56.7	13.7	99	n.	3.3	1.5	.....	.....	10 s	.....	.....	0.098	2.5	cloudy	The Staff.
Wakayama	29.92	759.9	29.98	761.5	59.1	15.1	71	ene.	6.4	2.9	.....	ck	8 ks	.....	nw.	0	0	clear	Y. Kuwamuea.
MAURITIUS.																			
Mauritius Observatory	29.70	754.4	29.89	759.2	79.7	26.5	68	se.	14.0	6.3	.....	0	3 k;ks	.....	sse.	0	0	fair	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.67	601.3	29.89	759.3	66.2	19.0	48	se.	.....	.....	.....	c	7 n	w.	w.	0	0	fair	Vicente Fernandez.
Leon	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Prof. M. Leal.
Mazatlan	29.68	753.9	29.94	760.5	67.2	19.6	74	wnw.	5.3	2.3	.....	2 cs	0	sw	.....	0	0	misty	F. Quijano, C. E.
Mexico, Central Obs'y	23.12	587.2	30.19	766.7	55.8	13.2	71	calm	0	0	.....	5 ck	5 ks	.....	.....	0	0	covered	The Staff.
Morelia	24.18	614.2	30.32	770.0	57.0	13.9	73	se.	.....	.....	2	4	2	s.	se.	inap.	inap.	½ clouded	M. Tena, M. D.
Pabellon, Aguascalientes	23.97	608.7	30.00	762.0	59.5	15.3	53	wnw.	.....	.....	1	10 c	0	wsw.	.....	0	0	covered	M. V. de Leon, M. E.
Puebla, Catholic Institute	23.37	593.7	30.11	764.7	54.5	12.5	88	calm	0	0	.....	0	0	.....	.....	0	0	clear	Prof. P. Spina.
San Luis Potosi	24.23	615.3	30.00	762.1	65.1	18.4	49	e.	.....	.....	1	6	0	w.	.....	0	0	½ clouded	G. Barroeta, M. D.
Zacatecas	22.54	572.6	30.19	766.8	51.7	11.0	46	ne.	9.0	4.0	.....	5 ck	0	.....	.....	0	0	½ clouded	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.22	767.7	30.22	767.7	51.8	11.0	.....	nne.	.....	.....	4	.....	.....	.....	.....	0	0	.....	
Groningen	30.24	768.0	30.29	769.4	47.1	8.4	.....	e.	.....	.....	2	.....	.....	.....	.....	0	0	.....	
Helder	30.28	769.2	30.28	769.2	45.7	7.6	.....	ne.	.....	.....	4	.....	.....	.....	.....	0	0	.....	
Hellevoetsluis	30.22	767.6	30.22	767.6	50.9	10.5	53	ene.	.....	.....	3	.....	.....	.....	.....	0	0	.....	
Utrecht	30.19	766.9	30.24	768.1	50.4	10.2	45	ene.	.....	.....	3	.....	2	.....	.....	0	0	lightly cl'dy	H. van der Brink.
NORWEGIAN.																			
Bergen	30.28	769.0	30.34	770.6	50.0	10.0	67	s.	11	5	.....	.....	6	.....	.....	0	0	.....	
Brono	30.15	765.7	30.19	766.7	41.0	5.0	84	sw.	18	8	.....	.....	10	.....	.....	0	0	.....	
Christiania	30.17	766.3	30.32	770.1	51.6	10.9	56	s.	9	4	.....	.....	7	.....	.....	0	0	.....	
Gjæsvær	29.64	752.9	29.67	753.5	24.4	— 4.2	.....	wnw	.....	.....	8	.....	10	.....	.....	.....	.....	snowing	
Lodingen	29.80	756.8	29.84	758.0	38.3	3.5	97	sw.	.....	.....	6–7	.....	10	.....	.....	.....	.....	raining	
PORTUGUESE.																			
Angra, Azores	.....	.....	.....	.....	59.0	15.0	61	wnw.	8.1	3.6	.....	.....	3	.....	.....	0	0	.....	Dr. J. A. Sampaio.
Campo Major	29.10	739.0	30.08	764.0	68.5	20.3	43	nnw.	3.8	1.7	.....	.....	3	.....	.....	0	0	.....	Dr. A. M. R. dos Santos.
Funchal, Maderia	30.15	765.9	30.24	768.1	65.8	18.8	61	sw.	.....	.....	.....	.....	5	.....	.....	0	0	.....	Capt. D. A. de Cunha.
Lisbon, Observatory	29.81	757.1	30.17	766.2	66.6	19.2	54	ssw.	3.8	1.7	.....	.....	1	nw.	.....	0	0	.....	The Staff.
Ponta Delgada, Azores	30.06	763.4	30.13	765.2	63.0	17.2	49	wnw.	8.7	3.9	.....	.....	4	.....	.....	0.087	2.2	.....	
Saint Paul de Loando	29.68	753.9	29.88	759.0	82.0	27.8	78	wsw.	1.3	0.6	.....	.....	5	e.	.....	0	0	.....	
Serra da Estrella	25.36	644.1	30.11	764.7	47.8	8.8	53	nnw.	12.5	5.6	.....	.....	4	.....	.....	0	0	.....	
RUSSIAN.																			
Akmolinski	29.13	740.0	30.28	769.2	20.7	— 6.3	63	ssw.	4	2	.....	0	0	.....	.....	0	0	.....	Major K. Lasarew.
Archangel	29.97	761.3	29.99	761.8	41.2	5.1	83	ssw.	18	8	.....	0	7 ks	.....	.....	0	0	.....	Capt. Sselliwerstow.
Astrakhan	30.29	769.3	30.21	767.2	30.6	— 0.8	90	n.	7	3	.....	10 cp	0	.....	.....	0.071	1.8	heavy cl'ds	Capt. Wisganow.
Barnaul	29.86	758.4	30.40	772.1	19.8	— 6.8	36	calm	0	0	.....	.....	0	.....	.....	0	0	.....	Meteorological Obs'y.
Dorpat	30.28	769.0	30.53	775.4	43.9	6.6	43	wsw.	4	2	.....	0	0	.....	.....	0	0	.....	Observatory.
Ekaterinburg	29.13	739.8	30.10	764.6	42.8	6.0	42	w.	13	6	.....	.....	0	.....	.....	0	0	.....	Meteorological Obs'y.
Kasan	30.17	766.3	30.45	773.5	37.8	3.2	49	sw.	2	1	.....	.....	0	.....	.....	0	0	.....	Observatory.
Kertch	30.25	768.3	30.27	768.8	40.8	4.9	78	nne.	11	5	.....	0	6 ks	.....	.....	0	0	.....	Lagorio & Sastyrea.
Kieff	29.68	753.8	30.34	770.6	39.0	3.9	50	e.	11	5	.....	.....	10k;s;n	.....	.....	0	0	.....	Observatory.
Lugan	30.15	765.9	30.37	771.3	38.1	3.4	40	ene.	13	6	.....	.....	5	.....	.....	0.004	0.1	light clouds	Meteorological Obs'y
Moscow	29.97	761.1	30.47	773.8	39.2	4.0	44	e.	4	2	.....	0	0	.....	.....	0	0	.....	Meteorological Obs'y.
Nikolaiev	30.26	768.7	30.34	770.5	42.3	5.7	83	e.	13	6	.....	.....	10 n	.....	.....	0	0	.....	Capt. Kurdakow.
Nikolaievsk, on the Amoor	29.62	752.4	29.71	754.6	19.6	— 6.8	81	n.	18	8	.....	.....	10	.....	.....	0.094	2.4	snowing	Lieut. Iwanow.
Pekin, China	29.66	753.4	29.80	757.0	61.5	16.4	53	se.	7	3	.....	3 cs	0	.....	.....	0	0	.....	Physical Observatory
St. Petersburg	30.48	774.1	30.49	774.5	45.0	7.2	40	wnw.	7	3	.....	0	0	.....	.....	0	0	.....	Central Physical Obs'y
Ssemipalatinsk	29.73	755.1	30.45	773.3	17.8	— 7.9	53	n.	9	4	.....	0	0	.....	.....	0	0	.....	Major Lasaren.
Tashkend, Laboratory	28.47	723.0	30.02	762.5	61.2	16.2	54	calm	0	0	.....	.....	9	.....	.....	blank	blank	light clouds.	Teich, A. M.
Tiflis	28.74	729.9	30.17	766.4	51.6	10.9	29	nw.	13	6	.....	0	0	.....	.....	0	0	.....	Physical Observatory
Vladivostok	29.82	757.4	29.89	759.1	38.5	3.6	98	e.	7	3	.....	.....	10 n	.....	.....	0	0	.....	
Warsaw	29.80	756.8	30.24	768.0	37.9	3.3	66	ene.	20	9	.....	.....	10 ks	.....	.....	.....	.....	.....	Astronomical Obs'y
Wilna	30.02	762.4	30.45	773.5	44.1	6.7	46	e.	4	2	.....	.....	8	.....	.....	0	0	heavy cl'ds	Berg, Assistant.
Yeniseisk	29.94	760.5	30.25	768.3	21.6	— 5.8	50	sw.	4	2	.....	.....	5	.....	.....	0	0	.....	M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	29.80	756.9	29.91	759.6	63.5	17.5	66	sw.	3.4	1.5	.....	.....	0	.....	.....	0	0	.....	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.03	762.7	30.09	764.2	67.6	19.8	52	n.	2.2	1.0	.....	1	2	w.	w.	0	0	almost clear	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.12	688.8	30.05	763.2	59.7	15.4	36	w.	3.8	1.7	.....	.....	3	.....	.....	0	0	lightly cl'dy	Domingo Martin.
Madrid, Royal Obs'y	27.81	706.4	30.00	761.9	65.7	18.7	41	n.	6.3	2.8	.....	0	3	.....	.....	0	0	cloudy	The Staff.
Murcia, Met. Obs'y	29.87	758.7	30.02	762.5	67.8	19.9	53	wsw.	2.9	1.3	.....	3	3	ese.	.....	0	0	cloudy	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.18	741.2	30.06	763.5	67.1	19.5	55	calm	0	0	.....	.....	2	.....	.....	0.193	4.9	lightly cl'dy	R. Gil Vallanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I	29.95	760.6	30.01	762.3	72.8	22.7	79	ese.	3.1	1.4	.....	7 ck	2 s	.....	w.	0	0	fair	Benito Vines, S. J.
Manilla, Philippine Islands	29.88	759.0	29.94	760.5	83.3	28.5	62	e.	0.9	0.4	.....	0	8	.....	.....	0	0	clear	F. Faura, S. J.
San Fernando, Naval Obs'y	30.06	763.6	30.16	766.1	66.9	19.4	68	calm	0	0	.....	0	6	.....	.....	0	0	.....	Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	29.94	760.5	30.03	762.8	70.9	21.6	86	calm	0	0	.....	3 s	5 k	.....	s.	0	0	cloudy	Manuel Maeu.
Tuguegarao, Philippine Id's	29.81	757.2	29.95	760.7	81.9	27.7	72	nw.	3.2	1.4	.....	0	0	.....	.....	0	0	clear	José L. Yrastorza.
SWEDISH.																			
Haparanda	29.97	761.2	30.01	762.2	37.8	3.2	80	sw.	.....	.....	4	.....	8	.....	.....	0	0	.....	
Umea	30.15	765.7	30.20	767.0	46.8	8.2	65	sw.	.....	.....	2	.....	8	.....	.....	0.083	2.1	.....	
Hernosand	30.25	768.4	30.30	769.7	47.3	8.5	54	s.	.....	.....	4	.....	2	.....	.....	0	0	.....	
Stockholm	30.25	768.3	30.43	772.8	47.5	8.6	48	sw.	.....	.....	2	.....	6	.....	.....	0	0	.....	
Wisby	30.43	772.9	30.49	774.4	41.4	5.2	66	wnw.	.....	.....	2	.....	3	.....	.....	0	0	.....	
Sub-series.																			
Upsala	30.28	769.2	30.37	771.4	50.5	10.3	42	ssw.	11.2	5.0	.....	.....	2	.....	wsw.	0	0	.....	S. G. Fineman.
SWISS.																			
Geneva	28.52	724.5	29.96	761.0	50.9	10.5	43	n.	.....	.....	3	.....	.....	.....	.....	0	0	clear	The Observatory

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
TURKISH.																			
Constantinople	.....	.....	29.96	760.9	51.3	10.7	46	n.	14	6.5	.....	.....	10	.....	n.	0	0	.....	The Observatory.
Valona	.....	.....	29.88	758.9	59.7	15.4	.....	nw.	.....	.....	1	.....	2	.....	.....	0	0	slightly cld'y	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	29.73	755.1	73.0	22.8	68	w.	.....	.....	2	10 cs	0	.....	.....	0	0	.....	Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	29.92	760.0	30.00	762.0	47	8.3	56	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. O. Barnes.
Alpena, Michigan	29.45	748.0	30.14	765.5	32	0.0	78	e.	16	7.2	.....	10 cs	0	w.	.....	0	0	cloudy	Jas. J. Fitzgerald.
Atlanta, Georgia	28.79	731.3	29.98	761.5	65.0	18.3	90	sw.	11	4.9	.....	4 k	0	calm	.....	0.28	7.1	fair	H. Hall.
Atlantic City, New Jersey	29.96	761.0	29.97	761.2	44.2	6.8	83	e.	7	3.1	.....	7 ck	0	w.	.....	0	0	fair	Jas. M. Watson.
Augusta, Georgia	29.77	756.1	29.96	761.0	65	18.3	87	calm	0	0	.....	0	0	.....	.....	0	0	clear	John Healy.
Baltimore, Maryland	29.92	760.0	29.97	761.2	51	10.6	86	calm	0	0	.....	.....	10 s	.....	s.	0.01	0.3	cloudy	Robert Seyboth.
Barnegat, New Jersey	29.96	761.0	29.98	761.5	47.0	8.3	74	se.	6	2.7	.....	7 cs	0	w.	.....	0	0	fair	Chas. F. Merritt.
Bismarck, Dakota	28.16	715.3	30.03	762.7	34	1.1	88	e.	18	8.0	.....	.....	10 n	.....	e.	0.66	16.8	light rain	Cyrus Cramer.
Boise City, Idaho	26.87	682.5	29.71	754.6	39.5	4.2	94	nw.	10	4.5	.....	.....	10 n	.....	calm	0.08	2.0	light rain	B. E. Light.
Boston, Massachusetts	29.86	758.4	30.02	762.5	34.0	1.1	100	se.	4	1.8	.....	.....	fg.	.....	.....	0	0	dense fog	O. B. Cole.
Brownsville, Texas	29.89	759.2	29.94	760.5	77	25.0	90	se.	4	1.8	.....	0	8 s	.....	.....	0	0	cloudy	J. C. Galloway.
Buffalo, New York	29.21	741.9	29.98	761.5	36.2	2.3	82	ne.	7	3.1	.....	10ck;cs	0	sw.	.....	0	0	cloudy	Wm. Finn.
Burlington, Vermont	29.72	754.9	30.02	762.5	32.0	0.0	74	n.	13	5.8	.....	2 ck	0	nw.	.....	0	0	clear	G. C. Schaeffer.
Cairo, Illinois	29.49	749.0	29.90	759.4	63.6	17.6	91	calm	0	0	.....	.....	10 s	.....	w.	1.60	40.6	cloudy	W. H. Ray.
Campo, California	27.37	695.2	29.95	760.7	28	— 2.2	88	s.	3	1.3	.....	0	0	.....	.....	0	0	clear	W. H. Clendenon.
Camp Thomas, Arizona	27.19	690.6	29.92	760.0	39	3.9	65	se.	.....	.....	1	0	0	.....	.....	0	0	clear	J. T. Fitzgerald.
Cape Henry, Virginia	29.92	760.0	29.94	760.5	49	9.4	86	ne.	13	5.8	.....	.....	10 s	.....	ne.	0.79	20.1	cloudy	J. E. Lanouette.
Cape May, New Jersey	29.95	760.7	29.98	761.5	47	8.3	77	e.	1	0.4	.....	.....	10 s	.....	.....	0	0	cloudy	W. Bolten.
Cedar Keys, Florida	29.99	761.7	30.01	762.2	72	22.2	84	calm	0	0	.....	1 ck	6 ks	.....	sw.	0.48	12.2	fair	F. W. Mixer.
Champaign, Illinois	28.97	735.8	29.81	757.2	57.8	14.3	93	s.	8	3.6	.....	.....	fg.	.....	.....	1.47	37.3	dense fog	L. A. Welsh.
Charleston, S. Carolina	29.85	758.2	29.91	759.7	68	20.0	90	w.	12	5.4	.....	7 c	3 s	w.	w.	0	0	cloudy	J. H. Smith.
Charlotte, N. Carolina	29.04	737.6	29.90	759.4	62.0	16.7	93	ne.	2	0.9	.....	.....	10s;fg	.....	.....	1.28	32.5	cloudy	D. O. Donoghue.
Chattanooga, Tennessee	29.11	739.4	29.94	760.5	62.0	16.7	93	calm	0	0	.....	.....	fg.	.....	.....	0.22	5.6	dense fog	B. L. Goulding.
Cheyenne, Wyoming	23.92	607.6	29.92	760 0	29.1	— 1.6	61	n.	2	0.9	.....	0	0	.....	.....	0	0	clear	E. McGovern.
Chicago, Illinois	29.14	740.1	29.87	758.7	43.0	6.1	100	e.	15	6.7	.....	.....	10 s	.....	.....	1.48	37.6	cloudy	J. Mitchell.
Chincoteague, Virginia	29.93	760.2	29.95	760.7	45	7.2	93	e.	7	3.1	.....	.....	10 n	.....	e.	0.04	1.0	light rain	V. P. Temple.
Cincinnati, Ohio	29.17	740.9	29.84	757.9	63.3	17.4	90	s.	2	0.9	.....	.....	10 n	.....	sw.	0.20	5.1	light rain	R. B. Watkins.
Cleveland, Ohio	29.14	740.1	29.90	759.4	40.3	4.6	91	ne.	5	2.2	.....	6 ck;k	3 s	w.	.....	0	0	cloudy	J. B. Newlin.
Coleman City, Texas	28.14	714.7	29.96	761.0	52	11.1	69	sw.	1	0.4	.....	0	0	.....	.....	0	0	clear	L. Dorman.
Columbus, Ohio	28.96	735.6	29.82	757.4	48	8.9	93	ne.	3	1.3	.....	.....	10 n	.....	.....	0.11	2.8	light rain	D. Cuthbertson.
Concho, Texas	28.01	711.4	29.95	760.7	49	9.4	71	w.	2	0.9	.....	0	0	.....	.....	0	0	clear	W. W. McConihe.
Davenport, Iowa	29.10	739.1	29.77	756.1	51	10.6	93	e.	6	2.7	.....	.....	fg.	.....	calm	0.67	17.0	dense fog	R. R. Martin.
Dayton, Washington T'y	27.96	710.2	29.76	754.4	44.4	6.9	84	w.	4	1.8	.....	.....	10 s	.....	.....	0	0	threatening	H. Clifford.
Deadwood, Dakota	25.28	642.1	29.96	761.0	30	— 1.1	92	s.	3	1.3	.....	.....	10 s	.....	.....	1.40	35.6	cloudy	G. W. Scott.
Decatur, Texas	.....	.....	.....	.....	61	16.1	56	sw.	7	3.1	.....	0	0	.....	.....	0	0	clear	D. J. Carr.
Delaware Breakwater, Del.	29.96	761.0	29.98	761.5	45	7.2	93	e.	14	6.3	.....	.....	9 s	.....	se.	0	0	cloudy	A. Schneider.
Denison, Texas	29.06	738.1	29.86	758.4	60.0	15.6	54	sw.	9	4.0	.....	0	0	.....	.....	0	0	clear	J. McGlone.
Denver, Colorado	24.64	625.8	29.91	759.7	35.5	1.9	48	n.	8	3.6	.....	0	0	.....	.....	0	0	clear	F. M. Neal.
Des Moines, Iowa	28.81	731.8	29.74	755.4	45	7.2	76	sw.	12	5.4	.....	1 cs	0	nw.	.....	0.35	8.9	clear	F. W. Conrad.
Detroit, Michigan	29.21	741.9	29.94	760.5	42.1	5.6	83	ne.	11	4.9	.....	.....	10 s	.....	calm	0	0	cloudy	C. F. R. Wappenhans.
Dodge City, Kansas	27.31	693.7	29.95	760.7	37	2.8	56	n.	17	7.6	.....	0	0	.....	.....	0	0	clear	E. A. Thomas.
Dubuque, Iowa	29.03	737.3	29.76	755.9	49.8	9.9	86	e.	9	4.0	.....	.....	10 n	.....	calm	0.51	13.0	light rain	J. Harvey Smith.
Duluth, Minnesota	29.45	748.0	30.17	766.3	31	— 0.6	78	ne.	32	14.3	.....	.....	10 s	.....	ne.	0	0	cloudy	N. B. Conger.
Eagle Pass, Texas	29.15	740.4	29.96	761.0	60.0	15.6	75	ne.	3	1.3	.....	0	0	.....	.....	0	0	clear	F. Belford.
Eagle Rock, Idaho	25.08	637.0	29.80	756.9	38	3.3	66	e.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. M. Clifford.
Eastport, Maine	29.91	759.7	29.98	761.5	31.5	— 0.3	63	n.	12	5.4	.....	0	0	.....	.....	0	0	clear	J. H. Melton.
El Paso, Texas	26.23	666.2	29.97	761.2	35	1.7	66	w.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.15	740.4	29.90	759.4	42	5.6	74	ne.	4	1.8	.....	0	0	.....	.....	0	0	clear	R. H. Paxton.
Escanaba, Michigan	29.47	748 5	30.16	766.1	34	1.1	73	n.	11	4.9	.....	5 cs	5 s	nw.	n.	0	0	cloudy	C. Dill.
Florence, Arizona	28.42	721.9	29.92	760.0	42.3	5.7	52	ne.	3	1.3	.....	0	0	.....	.....	0	0	clear	R. R. Herman.
Fort Apache, Arizona	25.02	635.5	29.94	760.5	34	1.1	65	e.	3	1.3	.....	0	0	.....	.....	0	0	clear	W. C. Barnes.
Fort Assinnaboine, Montana	27.13	689.1	30.03	762.7	28	— 2.2	77	ne.	9	4.0	.....	0	8 s	.....	ne.	inap.	inap.	cloudy	B. O. Lenoir.
Fort Bennett, Dakota	28.26	717.8	29.90	759.4	41	5.0	100	ne.	11	4.9	.....	.....	10 s	.....	.....	0.50	12.7	cloudy	T. Gibson.
Fort Benton, Montana	27.13	689.1	29.99	761.7	31	— 0.6	71	ne.	12	5.4	.....	.....	10 ks	.....	ne.	0	0	cloudy	S. Wheaton.
Fort Buford, Dakota	28.17	715.5	30.24	768.1	32	0.0	88	e.	6	2.7	.....	.....	10 s	.....	calm	0.13	3.3	cloudy	A. H. Bell.
Fort Custer, Montana	26.83	681.5	30.01	762.2	28	— 2.2	67	n.	5	2.2	.....	.....	10 s	.....	calm	inap.	inap.	cloudy	V. Verge.
Fort Davis, Texas	25.13	638.3	29.92	760.0	41	5.0	41	s.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. Williams.
Fort Elliott, Texas	27.12	688.8	29.90	759.4	39	3.9	42	ne.	12	5.4	.....	0	0	.....	.....	0	0	clear	W. J. Cundall.
Fort Gibson, Indian T'y	29.27	743.4	29.85	758.2	50.4	10.2	86	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. B. Campbell.
Fort Grant, Arizona	25.20	640.1	29.93	760.2	40	4.4	30	se.	1	0.4	.....	0	0	.....	.....	0	0	clear	T. J. Macgowan.
Fort Griffin, Texas	28.61	726.7	29.91	759.7	59	15.0	42	s.	2	0.9	.....	0	0	.....	.....	0	0	clear	G. H. Hayne.
Fort Keogh, Montana	27.51	698.7	30.05	763.3	29	— 1.7	77	w.	5	2.2	.....	.....	10 s	.....	w.	0.17	4.3	cloudy	W. B. Stockman.
Fort Macon, North Carolina	29.90	759.4	29.91	759.7	58	14.4	100	n.	10	4.5	.....	.....	fg.	.....	calm	0.69	17.5	dense fog	L. Leonardy.
Fort McKavett, Texas	27.73	704.3	29.99	761.7	51	10.6	66	sw.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. E. Thatcher.
Fort Missoula, Montana	26.48	672.6	29.79	756.7	31	— 0.6	88	sw.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. H. Jones.
Fort St. Michaels, Alaska	29.48	748.8	29.52	749.8	21	— 6.1	100	s.	6	2.7	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	A. P. Lenvitt.
Fort Shaw, Montana	26.30	668.0	29.96	761.0	25	— 3.9	76	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	A. L. Mathews.
Fort Sill, Indian Territory	28.64	727.4	29.88	758.9	46.5	8.1	69	n.	6	2.7	.....	0	0	.....	.....	0	0	clear	T. Cleary.
Fort Stevenson, Dakota	28.20	716.3	30.10	764.5	32	0.0	88	ne.	16	7.2	.....	.....	10 s	.....	.....	1.25	31.7	cloudy	W. Burrows.
Fort Verde, Arizona	.....	.....	.....	.....	34	1.1	45	w.	.....	.....	1	0	0	.....	.....	0	0	clear	D. Brooks.
Fort Washakie, Wyoming	24.37	619.0	.....	.....	26.6	— 3.0	79	calm	0	0	.....	.....	7 k	.....	.....	0	0	fair	T. M. Ambler.
Fredericksburg, Texas	28.20	716.3	29.92	760 0	65	18.3	93	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	H. S. Miles.
Galveston, Texas	29.91	759.7	29.95	760.7	75	23.9	90	sw.	8	3.6	.....	.....	10 k	.....	.....	0	0	threatening	E. O'C. MacInernev.
Grand Haven, Michigan	29.28	743.7	29.97	761.2	41.5	5.3	88	ne.	8	3.6	.....	.....	10 n	.....	sw.	0.19	4.8	heavy rain	W. A. Reid.
Hatteras, North Carolina	29.82	757.4	29.84	757.9	56	13.3	100	n.	18	8.0	.....	.....	10 n	.....	sw.	0.55	14.0	light rain	R. M. Crawford.
Helena, Montana	25.65	651.5	29.91	759.7	29	— 1.7	59	w.	2	0.9	.....	5 ck	0	.....	n.	0	0	fair	N. C. Smith.
Henrietta, Texas	28.95	735.3	29.98	761.5	55.0	12.8	74	nw.	7	3.1	.....	0	0	.....	.....	0	0	clear	J. W. Byram.
Huron, Dakota	28.37	720.6	29.82	757.4	40.8	4.9	89	n.	20	8.9	.....	.....	10 n	.....	.....	0.13	3.3	light rain	S. W. Glenn.
Indianapolis, Indiana	28.97	735.8	29.79	756.7	60.5	15.8	86	sw.	3	1.3	.....	.....	10 s	.....	calm	0.44	11.2	cloudy	O. Schutze
Indianola, Texas	29.91	759.7	29.94	760.5	75.0	23.9	97	s.	b	3.6	.....	0	8 k	.....	s.	0	0	cloudy	I. A. Reed.
Jacksboro, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. P. Sherry.
Jacksonville, Florida	29.95	760.7	29.99	761.7	71	21.7	90	s.	2	0.9	.....	.....	10 s	.....	.....	0.29	7.4	cloudy	J. W. Smith.
Keokuk, Iowa	29.10	739.1	29.77	756.1	56.2	13.4	62	sw.	2	0.9	.....	0	0	.....	.....	0.97	24.6	clear	F. Z. Gosewisch
Key West, Florida	30.01	762.2	30.03	762.7	76.0	24.4	69	se.	5	2.2	.....	0	4 k	.....	se.	0	0	fair	L. M. Melbourne.
Kittyhawk, North Carolina	29 87	758.7	29.89	759.2	48	8.9	100	ne.	22	9.8	.....	.....	10n;fog	.....	.....	0.39	9.9	light rain	E. A. Beals.
Knoxville, Tennessee	28.89	733.8	29.93	760.2	58.5	14.7	98	sw.	1	0.4	.....	.....	fg.	.....	.....	0.10	2.5	dense fog	J. A. Cody.
La Crosse, Wisconsin	29.14	740.1	29.94	760.5	43	6.1	74	e.	12	5.4	.....	.....	10 s	.....	.....	0.30	7.6	cloudy	S. C. Emery.
La Mesilla, New Mexico	26.09	662.7	29.97	761.2	36.2	2.3	49	calm	0	0	.....	0	0	.....	.....	0	0	clear	N. D. Lane.
Leavenworth, Kansas	28.94	735.1	29.85	758.2	48	8.9	63	s.	4	1.8	.....	0	0	.....	.....	0	0	clear	A. W. Browne.
Lewiston, Idaho	28.83	732.3	29.68	753.9	47	8.3	61	e.	1	0.4	.....	.....	10 s	.....	.....	0	0	cloudy	W. Blake.
Little Rock, Arkansas	29.56	750.8	29.88	758.9	63	17.2	100	sw.	3	1.3	.....	.....	fg.	.....	calm	0.12	3.0	dense fog	W. U. Simmons.
Los Angeles, California	29.68	753.9	30.08	764.0	45.2	7.3	83	ne.	1	0.4	.....	0	0	.....	.....	0	0	clear	E. F. Kubel.
Louisville, Kentucky	29.26	743.2	29.83	757.7	64.5	18.1	90	s.	4	1.8	.....	.....	10 n	.....	.....	0.24	6.1	light rain	H. C. Smyth.
Lynchburg, Virginia	29.23	742.4	29.94	760.5	54.2	12.3	86	calm	0	0	.....	.....	10 s	.....	.....	0.25	6.3	cloudy	W. R. Bushby.
Madison, Wisconsin	28.86	733.0	29.90	759.4	41	5.0	92	e.	15	6.7	.....	.....	10 n	.....	calm	1.31	33.3	light rain	C. A. Shaw.
Marquette, Michigan	29.52	749.8	30.27	768.8	30	— 1.1	78	ne.	14	6.3	.....	.....	10 s	.....	ne.	0	0	cloudy	J. Gilligan.
Mason, Texas	28.30	718.8	29.95	760.7	59.3	15.2	77	s.	2	0.9	.....	.....	10 s	.....	s.	0	0	cloudy	P. M. Wilson.
Memphis, Tennessee	29.56	750.8	29.90	759.4	69	20.6	78	s.	8	3.6	.....	0	0	.....	.....	0.08	2.0	clear	D. T. Flannery.
Milwaukee, Wisconsin	29.16	740.7	29.93	760.2	38	3.3	89	ne.	13	5.8	.....	.....	10 s	.....	.....	0.45	11.4	threatening	W. Line.

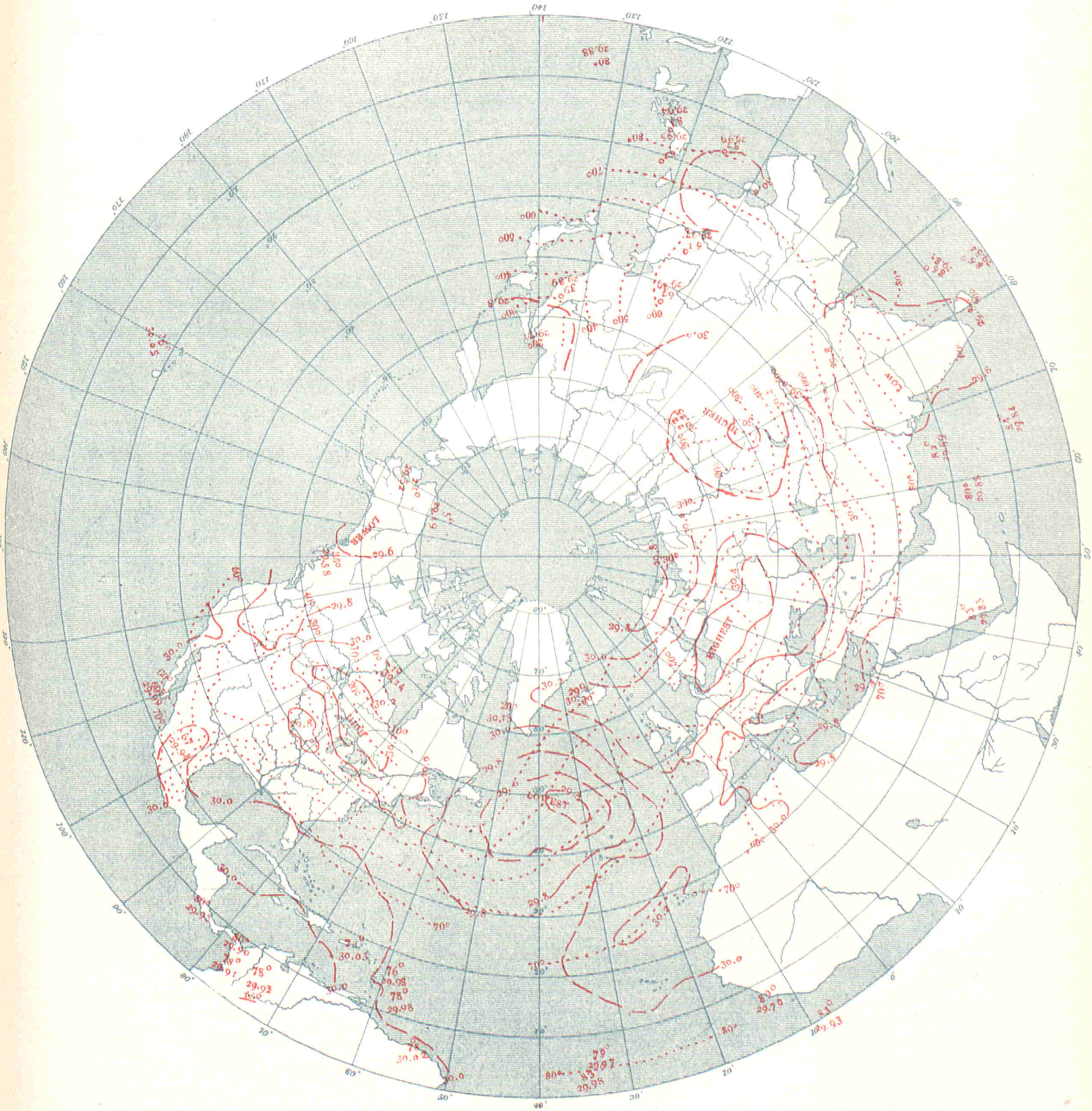
STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–01	0–10	0–10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Mobile, Alabama	29.95	760.7	29.99	761.7	71	21.7	94	calm	0	0			10 s		nw.	0.02	0.5	cloudy	J. D. Paxton.
Montgomery, Alabama	29.76	755.9	29.99	761.7	68.5	20.3	92	sw.	5	2.2			10s; fg			0	0	cloudy	J. B. McLaughlin.
Moorhead, Minnesota	28.90	734.0	29.93	760.2	35	1.7	100	ne.	16	7.2			10 s			0.13	3.3	cloudy	H. Bessant.
Morgantown, W. Virginia	28.84	732.5	29.88	758.9	57.0	13.9	74	calm	0	0			10 s		ne.	0	0	cloudy	G. C. Lewis.
Mt. Washington, N. H.	23.53	597.7	29.94	760.5	15.0	— 9.4	89	nw.	38	17.0			fg.		nw.	0	0	light fog	J. G. Linsley.
Nashville, Tennessee	29.35	745.5	29.89	759.2	64.0	17.8	84	e.	3	1.3			10 n		w.	0.13	3.3	thnd'r str'm	L. A. Jesunofsky.
New Haven, Connecticut	29.88	758.9	30.00	762.0	40	4.4	82	se.	5	2.2			10 s			0	0	cloudy	J. H. Sherman.
New London, Connecticut	29.96	761.0	30.01	762.2	46	7.8	76	w.	4	1.8		8 k	0	w.		0	0	cloudy	J. G. Lynch.
New Orleans, Louisiana	29.92	760.0	29.98	761.5	70.2	21.2	87	sw.	1	0.4		2 cs	hz.			0.02	0.5	clear	S. Dunne.
Newport, Rhode Island	29.94	760.5	29.99	761.7	40.8	4.9	77	calm	0	0			10 ks		w.	0	0	cloudy	W. McGillivray.
New River, N. Carolina					63	17.2	100	n.			1		fg.			0.24	6.1	dense fog	C. C. Corbin.
New Shoreham, Rhode I'd.	29.98	761.5	30.01	762.2	40.5	4.7	67	calm	0	0		7 ck	0	w.		0	0	fair	W. Davis.
New York, New York	29.81	757.2	29.99	761.7	44	6.7	83	calm	0	0			10 s			0	0	cloudy	E. B. Garriott.
Norfolk, Virginia	29.90	759.4	29.93	760.2	49	9.4	86	ne.	7	3.1			10 ks		ne.	0.35	8.9	cloudy	J. T. Elker.
North Platte, Nebraska	26.94	684.3	29.90	759.4	34.6	1.4	79	w.	12	5.4		0	1 s			inap.	inap.	clear	E. F. Brady.
Olympia, Washington T'y	29.70	754.4	29.74	755.4	42.5	5.8	96	calm	0	0			10 n		calm	0.22	5.6	light rain	J. Dascomb.
Omaha, Nebraska	28.50	723.9	29.71	754.6	43.8	6.6	76	sw.	16	7.2		0	5 s		w.	inap.	inap.	fair	A. Pollak.
Ooglaamie, Pt. Barrow, Alas.	29.47	748.5	29.49	749.0	5.2	—14.9	93	wnw	2	0.9			10 n			inap.	inap.	light snow	P. H. Ray.
Oswego, New York	29.67	753.6	30.01	762.2	38.0	3.3	74	ne.	8	3.6		5 c	0	w.		0	0	clear	S. W. Beall.
Palestine, Texas	29.39	746.5	29.95	760.7	70.5	21.4	90	w.	6	2.7		0	5 ks		sw.	0.09	2.3	fair	L. M. Pindell.
Pensacola, Florida	29.97	761.2	30.00	762.0	72.0	22.2	97	s.	3	1.3		0	7 s		w.	0	0	fair	M. McGauran.
Philadelphia, Pa	29.89	759.2	29.99	761.7	47	8.3	77	se.	2	0.9			10 ks		n.	0	0	cloudy	T. F. Townsend.
Pike's Peak, Colorado	17.64	448.0	29.92	760.0	15	— 9.4	56	nw.	28	12.5		0	0			0	0	clear	L. M. Dey.
Ploche, Nevada	23.90	607.0	29.89	759.2	36	2.2	39	s.	5	2.2		2 k	0	s.		0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.06	738.1	29.88	758.9	48.4	9.1	98	nw.	4	1.8		0	0			0	0	clear	J. H. Bryce.
Port Eads, Louisiana	30.01	762.2	30.02	762.5	72.1	22.3	100	s.	1	0.4		0	3 ks		s.	0.02	0.5	clear	H. G. Christian.
Port Huron, Michigan	29.23	742.4	29.93	760.2	37.4	3.0	85	ne.	12	5.4			10 s			0	0	cloudy	W. O. Bailey.
Portland, Maine	29.94	760.5	30.00	762.0	42.0	5.6	65	se.	9	4.0		9 ck	0	w.		0	0	cloudy	D. C. Murphy.
Portland, Oregon	29.68	753.9	29.75	755.6	44.0	6.7	93	calm	0	0			10 s		s.	0.26	6.6	cloudy	M. L. Henrne.
Portsmouth, N. Carolina					56	13.3	86	ne.	13	5.8			10 ks		ne.	0.09	2.3	cloudy	F. P. Chaffee.
Prescott, Arizona	24.68	626.9	29.90	759.4	32	0.0	47	s.	2	0.9		0	0			0	0	clear	J. Mc N. Wright.
Provincetown, Mass	29.98	761.5	30.00	762.0	39.5	4.2	82	se.	3	1.3		3 k	5 s	se.		0	0	cloudy	P. T. Jenkins.
Punta Rassa, Florida	30.00	762.0	30.01	762.2	71	21.7	90	se.	6	2.7		0	7 ks		sw.	1.13	28.7	fair	W. J. Evans.
Red Bluff, California	29.46	748.3	29.83	757.7	44.6	7.0	98	nw.	2	0.9			10 n			1.21	30.7	light rain	J. M. Frantz.
Rio Grande City, Texas	29.66	753.4	29.90	759.4	77	25.0	76	se.	3	1.3			10 s		calm	0	0	cloudy	W. H. Taylor.
Rochester, New York	29.31	744.5	30.00	762.0	37	2.8	89	ne.	2	0.9		3 cs	3s; sk	w.	ne.	0	0	fair	A. T. Sherwood.
Roseburg, Oregon	25.24	742.7	29.80	756.9	42	5.6	87	ne.	1	0.4			10 n			0.15	3.8	light rain	J. J. Naury.
Sacramento, California	29.83	757.7	29.91	759.7	47.0	8.3	93	se.	7	3.1			10 s		sw.	0.52	13.2	cloudy	J. A. Barwick.
St. Louis, Missouri	29.24	742.7	29.85	758.2	56.9	13.8	93	s.	6	2.7		0	0			1.09	27.7	clear	J. H. Webber.
St. Paul, Minnesota	28.94	735.1	29.83	757.7	41.0	5.0	89	ne.	7	3.1			10 s		ne.	0.19	4.8	cloudy	P. F. Lyons.
St. Vincent, Minnesota	29.27	743.4	30.18	766.6	30	— 1.1	78	ne.	15	6.7			10 k; s		ne; c	0.50	12.7	cloudy	G. Kingsbury.
Salt Lake City, Utah	25.46	646.7	29.82	757.4	41	5.0	52	ne.	3	1.3		9 k	0	sw.		0	0	cloudy	J. Craig.
San Antonio, Texas	29.23	742.4	29.93	760.2	73.1	22.8	90	calm	0	0			10 s		calm	0	0	cloudy	E. Lane.
San Diego, California	29.92	760.0	29.99	761.7	45.2	7.3	89	n.	5	2.2		0	0			0	0	clear	A. C. Dobbins.
Sandusky, Ohio	29.20	741.7	29.90	759.4	40.9	4.9	73	ne.	22	9.8			10 s			0	0	cloudy	M. H. Perry.
Sandy Hook, New Jersey	29.96	761.0	30.00	762.0	45.0	7.2	76	se.	9	4.0			10 s		se.	0	0	cloudy	B. A. Blundon.
San Francisco, California	29.86	758.4	29.93	760.2	48	8.9	86	sw.	6	2.7			9 s		sw.	0.29	7.4	cloudy	N. Gorom.
Santa Fé, New Mexico	23.18	588.8	29.94	760.5	35.2	1.8	79	ne.	5	2.2		0	0			0	0	clear	H. U. Jones.
Savannah, Georgia	29.86	758.4	29.95	760.7	69	20.6	84	w.	5	2.2		3 ck	2 ks		s.	0.39	9.9	fair	H. W. Ford.
Shreveport, Louisiana	29.70	754.4	29.94	760.5	67	19.4	93	s.	3	1.3		0	7 k		s.	1.02	25.9	clearing	E. N. Meekins.
Silver City, New Mexico	24.22	615.2	29.90	759.4	31	— 0.6	38	w.	2	0.9		0	0			0	0	clear	J. B. Wallace.
Sitka, Alaska	29.51	749.5	29.58	751.3	35	1.7	64	nw.	20	8.9			10 s		calm	0.02	0.5	cloudy	J. J. McLean.
Smithville, North Carolina	29.82	757.4	29.86	758.4	67	19.4	93	w.	7	3.1			10 s			0	0	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	27.67	702.8	29.73	755.1	44	6.7	68	ne.	4	1.8			10 s			0	0	cloudy	D. Moore.
Springfield, Illinois	29.12	739.6	29.82	757.4	58	14.4	87	sw.	4	1.8		0	fg.			1.19	30.2	clear	T. B. Jennings.
Springfield, Massachusetts	29.88	758.9	30.01	762.2	40.7	4.8	65	n.	4	1.8		1 c	0	w.		0	0	clear	T. S. Outram.
Springfield, Mo	28.42	721.9	29.94	760.5	52	11.1	83	ne.	3	1.3		0	0			0.01	0.3	clear	J. B. Marbury.
Stockton, Texas	26.94	684.3	29.97	761.2	43.0	6.1	47	calm	0	0		0	0			0	0	clear	J. O'Dowd.
Thatcher's Island, Mass	29.91	759.7	29.96	761.0	42.0	5.6	82	s.	6	2.7		5 k	5 s	sw.		0	0	cloudy	G. Liebmann.
Toledo, Ohio	29.21	741.9	29.92	760.0	42	5.6	83	ne.	20	8.9		10 cs	0	w.		0	0	threatening	A. Buell.
Tucson, Arizona	27.51	698.7	29.90	759.4	47	8.3	52	se.	4	1.8		0	0			0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.40	746.7	29.77	756.1	46.8	8.2	89	w.	6	2.7			10 n			0.21	5.3	light rain	J. Daly.
Uvalde, Texas	28.96	735.6	29.93	760.2	70	21.1	93	calm	0	0			10 s		calm	0	0	cloudy	E. C. Imlay.
Vicksburg, Mississippi	29.68	753.9	29.94	760.5	73	22.8	84	s.	6	2.7		3 k	4 ks	s.	calm	0	0	fair	T. J. Kenan.
Visalia, California	29.55	750.6	29.92	760.0	50	10.0	94	nw.	4	1.8			10 n			0.06	1.5	light rain	J. T. Cochran.
Washington, D. C.	29.85	758.2	29.97	761.2	50	10.0	93	calm	0	0			10 n			0.16	4.1	light rain	B. M. Purssell.
West Las Animas, Colorado	25.99	660.1	29.95	760.7	28	— 2.2	59	e.	4	1.8		0	0			0	0	clear	J. Grover.
Wickenburg, Arizona					35.5	1.9	67	calm			0	0	0			0	0	clear	H. A. Kremp.
Williamsport, Pa	29.34	745.2	29.95	760.7	44	6.7	83	calm	0	0			10 ks			0	0	cloudy	B. F. Hough.
Wilmington, N. Carolina	29.80	756.9	29.86	758.4	68	20.0	90	calm	0	0			10 s			0.12	3.0	cloudy	E. W. McGann.
Winnemucca, Nevada	25.30	642.6	29.70	754.4	41	5.0	86	sw.	11	4.9			10 ks		sw.	0	0	cloudy	J. R. Williams.
Yankton, Dakota	28.32	719.3	29.66	753.4	47	8.3	93	se.	5	2.2			10 ks			0.31	7.9	cloudy	J. H. Atfield.
Yuma, Arizona	29.74	755.4	29.89	759.2	48.0	8.9	56	nw.	1	0.4		0	0			0	0	clear	O. D. Stewart.
Sub-stories.																			
Bogota, U. S. Columbia	22.00	558.8			54.5	12.5	74	n.	8.4	3.8		2 c	5 ks	w.	n.	0	0	fair	Joaquin Gomez.
Bridgetown, Barbados, W. I.	29.97	761.2	29.98	761.5	78	25.6	90	e.				5 k	5 ks	e.	e.	0	0	fair	J. I. Plume.
Buenaventura, U. S. C.																			B. Bigar.
Guadeloupe, W. I.	29.86	758.4	29.88	758.9	76	24.4	87	ne.				0	3 ks			0	0	clear	A. Van Caneghem.
Havana, Cuba, W. I.	30.02	762.5	30.07	763.8	75	23.9	90	se.	1.2	0.5		0	8 ks		calm	0	0	cloudy	Robert Johnston.
Kingston, Jamaica, W. I.	29.97	761.2	29.98	761.5	74.7	23.7	83	calm	0	0		1 cs	6 s		e.	0	0		F. M. Everett.
Navassa, W. I.																			Dr. C. J. Hering.
Paramaribo, S. A.	30.02	762.5	30.02	762.5	78	25.6	86	e.			3	4 c	5 k	e.		0	0	fair	Miss Flora A. Nichols.
Puerto Berrio, U. S. Col'mbia	29.46	748.3	29.92	760.0	78	25.6	95	calm			0		10 s		calm	0.11	2.8	cloudy	Earl Flint.
Rivas, Nicaragua, C. A.							92	ne.			2	0	0			0	0	clear	Robert Mason.
Santiago de Cuba, W. I.	29.95	760.7	29.98	761.5	76	24.4	70	calm	0	0		2 c	4 ks			0.01	0.3	cloudy	W. Wood.
York Factory, B. A.	30.08	764.0	30.14	765.5	— 1.0	—18.3	84	sw.	13	5.8		0	0			0	0	clear	

STATIONS AND VESSELS.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
BRITISH NAVAL.																		
H. M. S. Agincourt, N. 36° 40′, W. 8° 21′	30.11	764.8	62	16.7	88	nw.			1		3	nnw.				3	wnw.	d. clouds.
H. M. S. Alert, Mahi, Seychelles Islands	29.85	758.2	83	28.3	79	nw.			1		9							misty.
H. M. S. Alexandra, Port Augusta, Sicily	29.85	758.2	59	15.0	68	e.			2		9	e.						d. clouds.
H. M. S. Bacchante, Jaffa, Egypt	29.72	754.9	83	28.3	33	s.			1–3		3							misty.
H. M. S. Cleopatra, N. 8° 40′ E. 66° 56′	29.84	757.9	83.5	28.6	83	ne.			1–2		7	calm						d. clouds.
H. M. S. Comus, Pelew Island, Oceania	29.88	758.9	80	26.7	95	e.			1		3	ne.						d. clouds.
H. M. S. Diamond, S 36° 30′, E. 134° 40′	29.96	761.0	63	17.2	88	nw.			3–4		0					2	nw.	blue sky.
H. M. S. Dido, N. 17° 00′, W. 61° 45′	30.00	762.0	77	25.0		ene.			1–2		3	ne.						d. clouds.
H. M. S. Dryad, N. 24° 47′, E. 67° 00′	29.72	754.9				w.			1		0					1	wnw.	blue sky.
H. M. S. Eclipse, S. 15° 02′, E. 40° 48′			83	28.3	100	ese.			1–2		3							d. clouds.
H. M. S. Espiegle, S. 36° 48′, E. 128° 58′	29.87	758.7	60	15.6	76	w.			5		0					5	v	
H. M. S. Gannet, S. 33° 01′, W. 71° 37′	30.03	762.7	57	13.9	93	ne.			2		10							drizzling.
H. M. S. Garnet, Montevideo, Uruguay	30.26	768.6	58	14.4	93	ne.			2		7							d. clouds.
H. M. S. Inconstant, S. 30° 15′ E. 35° 30′	29.97	761.2	72	22.2	95	ene.			3–4		7	ene.				4	ene.	d. clouds.
H. M. S. Iron Duke, N. 22° 16′, E. 114° 10′	29.90	759.4	73	22.8	90	calm			0		4	e.						d. clouds.
H. M. S. Lark. S. 10° 51′, E. 162° 26′	29.93	760.2	82.3	27.9		nne.			1		4					1	nne.	d. clouds.
H. M. S. Liffey, Coquimbo, Chili	30.02	762.5	60	15.6		e.			1		2							d. clouds.
H. M. S. Magpie, N. 34° 41′, E. 135° 12′	29.98	761.5	57.6	14.2	80	calm			0		0						s.	blue sky.
H. M. S. Malabar, N. 15° 48′ E. 59° 15′	29.88	758.9	80	26.7	86	nw.			1		2					2	nw.	d. clouds.
H. M. S. Nelson, Sydney, N. S. Wales	30.18	766.6	67	19.4	79	se.			1		1							blue sky.
H. M. S. Northampton, Bermuda, W. I.	29.87	758.7	66.5	19.2	84	calm			0		10							d. clouds.
H. M. S. Pegasus, N. 14° 35′, E. 114° 04′	29.99	761.7	82	27.8	83	nne.			1–2		0					1	nne.	blue sky.
H. M. S. Rambler, St. Paul de Loando, Benguela	29.86	758.4	81	27.2	95	sw.			2		4	wsw.						d. clouds.
H. M. S. Rocket, Esquimalt, Vancouver Island, B. C.	29.72	754.9	47	8.3		calm			0		6							d. clouds.
H. M. S. Serapis, N. 15° 35′ E. 58° 43′	29.91	759.7	81	27.2	78	ne.			1		1							blue sky.
H. M. S. Superb, N. 38° 14′, E. 17° 47′*	29.90	759.4	56	13.3	74	nne.			2–3		1	nne.				1	nne.	blue sky.
H. M. S. Thalia, S. 33° 07′, E. 16° 54′	30.00	762.0	66	18.9	78	sse.			5		0					3	sse.	blue sky.
H. M. S. Triumph, Valparaiso, Chili	30.01	762.2	56	13.3	100	n.			2		10	calm						foggy.
H. M. S. Tyne, N. 8° 17′, E. 82° 59′	29.81	757.2	86	30.0	100	w.			1		3	nnw.				1	se.	d. clouds.
H. M. S. Woodlark, N. 21° 00′, E. 64° 54′	29.89	759.2	81.5	27.5	59	wnw.			3–4		0					3	nw.	misty.
PORTUGUESE NAVAL.																		
Rio Lima, Porto Praya, Cape Verd Islands	30.00	763.1	76.3	24.6	71	nne.			3		1					2		blue sky.
Tamega, Macao, China	30.09	764.3	72.3	22.4	72	calm			0		8			⅛ h'r	¼ h'r	1		
UNITED STATES NAVAL.																		
Navy Yard, Pensacola, Fla	29.97	761.2	74	23.3	90	sw.	6	2.7			2		sw.	0	0			fair.
Naval Hospital, Portsmouth, N. H.	30.09	764.3	39	3.9	82	e.	3	1.3			2		nw.	0	0			fair.
Naval Hospital, Yokohama, Japan	29.74	755.4	57	13.9	97	n.			1		10		n.	0.25	6.3			gloomy.
Adams, Panama, Panama	29.68	753.9	75	23.9	95	nw.			1		0			sli't	sli't	sm'h		clear.
Alaska, Callao, Peru	29.79	756.7	60	15.6	100	s.			1		10		s.	0	0	sm'h		cloudy.
Alert, Kobe, Japan	29.84	757.9	59	15.0	54	e.			2		2		calm	0	0	long		fair.
Alliance, N. 18° 02′ W. 82° 30′	29.91	759.7	78	25.6	82	e.			1		5			0	0	sm'h		fair.
Ashuelot, Nagasaki, Japan	29.99	761.7	58	14.4	88	calm			0		0							clear.
Brooklyn, Montevideo, Uruguay	30.26	768.6	59	15.0	82	ne.	12	5.4			10		w.	0	0	sm'h		cloudy.
Colorado, New York, N. Y.	29.98	761.5	44	6.7	84	s.	2	0.9			10		sse.	0	0			cloudy.
Enterprise, N. 13° 20′, W. 70° 48′*	29.93	760.2	76	24.4	95	ne.			4		10		ne.			long	e.	cloudy.
Essex, N. 0° 49′, W. 9° 37′	29.93	760.2	83	28.3	79	s.			1		5					long	s.	fair.
Franklin, Norfolk, Va.	29.96	761.0	49	9.4	93	ene.	6	2.7			10		calm	0.45	11.4			cloudy.
Galena, Leghorn, Italy*	29.88	758.9	61	16.1	61	w.			1		8		nne.			sm'h		cloudy.
Independence, Mare Island, Cal.	29.79	756.7	49	9.4	85	wsw.			2		10		sw.	0.51	13.0			threatening
Kearsage, Samana Bay, Hayti, W. I.	30.05	763.3	72	22.2	80	n.			1		5		ne.					fair.
Lackawanna, Callao, Peru*	29.82	757.4	64	17.8	94	calm			0		10							foggy.
Lancaster, Leghorn, Italy*	29.86	758.4	63	17.2	47	wsw.			1		8		calm	0	0			fair.
Marion, S. 33° 44′, E. 18° 04′	29.95	760.7	64	17.8	89	s.			3		2		s.			long	sse.	fair.
Michigan, Erie, Pa	29.78	756.4	43	6.1	100	ene.			2		0							clear.
Minnesota, Newport, R. I.	30.02	762.5	43	6.1	75	calm	0	0			8							cloudy.
Monocacy, Kobe Japan	29.97	761.2	56	13.3	87	e.			1		2		calm					fair.
New Hampshire, Newport, R. I.	29.98	761.5	40	4.4	100	calm			0		10			0	0	sm'h		cloudy.
Nipsic, Barcelona Spain	29.94	760.5	61	16.1	71	sw.			3		0					sm'h		blue sky.
Onward. Callao, Peru†	30.04	763.0	61	16.1	100	calm			0		10		n.			long	w.	misty.
Palos, Kobe, Japan	30.09	764.3	56	13.3	75	se.			1		2		calm					clear.
Passaic, Washington, D. C.	30.01	762.2	50	10.0	100	calm			0		10		calm					cloudy.
Pensacola, Callao, Peru	29.92	760.0	63	17.2	94	sse.	3	1.3			10		se.	0	0	sm'h		foggy.
Powhatan, Santa Ana, Curacoa, W. I.	29.95	760.7	78	25.6	95	ene.			3		5		e.					fair.
Portsmouth, N. 39° 05′, W. 73° 44′	29.96	761.0	43	6.1	100	ene.			4		0					sm'h	e.	clear.
Quinnebaug, Leghorn, Italy	29.86	758.4	61	16.1	44	wsw.			1		8		nw.	0	0	sm'h		fair.
Ranger, Acapulco, Mexico*	29.86	758.4	78	25.6	78	calm			0		2		calm	0	0	sm'h		clear.
Richmond, Kobe, Japan*	29.93	760.2	59	15.0	76	e.			1		0			0.5	13.			clear.
Shenandoah, Off Carthagena, U. S. C*	29.91	759.7	75	23.9	90	ene.			1		5		calm			sm'h		cloudy.
St. Louis, League Island, Pa	30.25	768.3	45	7 2	84	calm	0	0			8			0	0			cloudy.
Swatara, Kobe, Japan*	29.80	756.9	60	15.6	71	se.			1		2		calm			sm'h		fair.
Tennessee, Port Royal, S. C.	29.98	761.5	69	20.6	100	w.	7	3.1			8			0.22	5.6			clearing.
Vandalia, Port Royal, S. C†	30.16	766.1	67	19.4	100	w.			2		10		w.					cloudy.
Wabash, Boston, Mass.	30.02	762.5	39	3.9	82	se.	2	0.9						0.01	0.3			dense fog.
Wachusetts, Sitka, Alaska	29.47	748.5	35	1.7	100	wnw.			2		10		calm					clear.
Wyoming, Port Royal, S. C.	29.95	760.7	66	18.9	94	ssw.	14	6.3			10		sw.	0.11	2.8			overcast.
Yantic, Off Port Royal, S. C.*	29.89	759.2	69	20.6	95	sw.			2		8							cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.			Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Amount and kind.		Direction.				Character.	Direction from.	
								Force.	Upper.	Lower.	Upper.	Lower.					
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																	
S. S. Polynesian, N. 54° 59′, W. 12° 29′*	30.03	762.7	54	12.2		e.			3		0		0	0	sm'h		fair.
S. S. Scandinavian, N. 55° 24′, W. 7° 42′*	30.19	766.8	52	11.1		e.			3		0		0	0	sm'h		misty.
S. S. Waldensian, Boston, Mass*													4 h'r	4 h'r			
AMERICAN STEAMSHIP COMPANY.																	
S. S. British Crown, N. 39° 19′, W. 64° 32′†	30.10	764.5	49	9.4		nw.			3		3		nw.	2 h'r	2 h'r	mod.	clear.
S. S. Illinois, Philadelphia, Pa	29.52	749.8	47	8.3	92	ne.			3		10		ne.				rainy.
S. S. Indiana, N. 47° 06′, W. 31° 05′†	29.30	744.2	54	12.2	73	w.			6		5?		sw.	h'vy	h'vy	w.	overcast.†
S. S. Ohio, N. 39° 18′, W. 58° 30′†	29.71	754.6	47	8.3	92	n.			5		7		n.		mod.	ne.	
ANCHOR LINE.																	
S. S. Ethiopia, N. 45° 06′, W. 41° 21′	29.56	750.8	45	7.2	73	w.			2		2		s.	0	h'vy	ne.	clear.
S. S. India, N. 37° 16′ E. 4° 23′*	29.88	758.9	62	16.7	88	ene.			4		2						fair.
ATLAS LINE.																	
S. S. Alvo, Santa Marta, U. S. C	29.89	759.2				n.			3		3		n.	0	r'gh	e.	fair.
S. S. Arden, N. 10° 40′, W. 71° 38′						ne.											fine.
S. S. Athos, N. 17° 42′, W. 72° 39′	29.52†	749.8†				s.			1		2		ese.	0		s.	clear.
S. S. Claribel, N. 33° 09′, W. 73° 36′*†	30.00	762.0	71	21.7	90	ssw.			3		8		ssw.	0	long	sw.	threatening.
BOSTON AND HALIFAX LINE.																	
S. S. Carroll, N. 43° 13′ W. 66° 02′†	30.34	770.6	35	1.7	80	nne.			3					0	long	se.	fine.
BRITISH METEOROLOGICAL OFFICE.																	
S. S. Arran, S. 3° 16′, W. 23° 05′	29.95	760.7	85.5	29.7	58	wnw.			2		10						heavy rain.
Baroda, S. 0° 05′, E. 83° 11′	29.84	757.9	85.7	29.8	84	w.			2		3						d. clouds.
British Merchant, S 2° 36′ E 87° 04′	29.81	757.2	84.5	29.2	74	calm			0		3						misty.
Bk Caldew, N. 48° 35′, W. 14° 34′	30.16	766.1	54 1	12.3		se.			5		10						misty.
S. S. Cipéro, N. 51° 27′, W. 5° 45′	30.26	768.6	48	8.9	78	ene.			3		0						misty.
Bk. Commewyne, N. 55° 12′, W. 17° 35′	30.19	766.8	55	12.8	75	se.			3		1						misty.
Corona, N. 4° 45′, W. 34° 30′	29.98	761.5	83.4	28.6	79	nne.			3		2						d. clouds.
S. S. Hermine, N 6° 21′, W. 33° 00′	29.97	761.2	79.3	26.3	89	ne.			4		8						d. clouds.
S. S. Rosetta N. 47° 16′, W 6° 32′	30.16	766.1	55	12.8	80	ene.			3		0						misty.
CUNARD LINE.																	
S. S. Bothnia, N. 42° 41′ W. 47° 44′	29.50	749.3				e.			5				2 h'r	2 h'r	mod.	ne.	sleeting.
S. S. Scythia, N. 41° 37′, W. 55° 56′			37	2.8	90	nnw.			6		8		nnw.	2 h'r	2 h'r	r'gh	nnw.	snowy.
GENERAL TRANS-ATLANTIC COMPANY.																	
S. S. Canada, N. 41° 39′, W. 49° 37′	29.22†	742.2†	32	0.0		nne.			3		9		ne.	5 h'r	5 h'r	sm'h	
GUION LINE.																	
S. S. Arizona, N. 46° 30′, W. 39° 56′	29.58	751.3	45	7.2		var.			4		5		nw.	sh'rs	shr's	mod.	con.	
HAMBURG AMERICAN PACKET COMPANY.																	
S. S. Gellert, N. 49° 37′, W. 7° 53′	30.22	767.6	60	15.6		e.			2		10		ene.	0	0	sm'h		covered.
S. S. Lessing, New York, N. Y	29.97	761.3	45	7.2		calm			0		10		rain	rain			cloudy.
S. S. Silesia, N. 45° 01′, W. 40° 20′*†	29.68	753.9	48.6	9.2		wsw.			5		2		w.	0	0	5	w.	fair.
S. S. Wieland, N. 49° 34′, W. 8° 12′	30.22	767.6	57	13.9		e.			4		5		e.	0	0	3	e.	fair.
INMAN LINE.																	
S. S. City of New York, N. 51° 02′, W. 21° 27′	29.90	759.4				se.			4		9		ssw.	0	0	mod.	sse.	hazy.
LAMPERT AND HOLT'S LINE.																	
S. S. Hevelius, N. 50° —′, W. 8° —′*†	30.35	770.9	57	13.9		e.			1		2		sse.	0	0	sm'h		clear.
S. S. Humboldt, N. 30° 28′, W. 18° 24′*	30.24	768.1	69.5	20.8	65	nnw.			1		0			0	0	2	ne.	blue sky.
MALLORY LINE.																	
S. S. Colorado, N. 29° 21′, W. 91° 10′†	29.90	759.4	73	22.8		sw.			3		4		sw.	0	0	small	s.	fair.
MERCHANTS' EXPRESS LINE.																	
S. S. Hermod, N. 45° 30′, W. 49° 00′.†*	29.20	741.7	32	0.0		ne.			1		10		n.	6 h'r	6 h'r	sm'h		misty.
NATIONAL LINE.																	
S. S. Canada, N. 41° 04′, W. 51° 39′†	29.65	753.1	36	2.2		nne.			2		1		nw.	0	0	sm'h	ne.	clear.
S. S. England, Liverpool, Eng	30.41	772.4				e.			2		2			0	0			clear.
S. S. Erin, London, England	30.32	770.1	70	21.1		ne.			4		2		ne.	0	0			very fine.
S. S. Holland, N. 46° 04′, W. 31° 54′	29.40	746.7	46	7.8		wnw.			7		8		wnw.	6 h'r	6 h'r		nw.	clearing.
S. S. Italy, N. 49° 28′, W. 27° 04′	29.50	749.3				ese.			6		8		s.	4 h'r	4 h'r	r'gh	se.	showery.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																	
S. S. Niagara, Havana, Cuba, W I.†	30.05	763.3	75	23.9		ese.			1		0			0	0			clear.
S. S. Santiago, Cienfuegos, Cuba, W. I†	30.02	762.5	77	25.0		ne.			1		1		n.	0	0			fine.
NEW YORK HAVANA AND MEXICAN MAIL.																	
S. S. City of Alexandria, N. 20° 55′, W. 90° 47′*†	30.31?	769.9?	77	25.0		ese.			2		6		se.	0	0	sm'h		hazy.
S. S. City of Puebla, N. 28° 00′, W. 78° 54′†	29.12?	739.6?	70	24.4		s.			2		2		ne.			sm'h	s.	
NEW YORK HERALD WEATHER SERVICE.																	
S. S. Atlas, Les Cayes, Hayti, W. I*†	30.08	764.0	76	24.4		calm			0							sm'h		showery.
S. S. City of Washington, N. 24° 20′, W. 80° 52′*†	30.12	765.0	77	25.0		e.			1							sm'h		fine.
S. S. Lepanto, N. 40° 44′, W. 55° 20′*	29.67	753.6	32	0.0		nw.			6								n.	squally.
S. S. New York, N. 38° 25′, W. 74° 23′*†	30.10	764.5	45	7.2		ene.			3								e.	overcast.
S. S. P. Caland, N. 45° 23′ W. 42° 16′	29.58	751.3	50.0	10.0		sw.			2									
NORTH GERMAN LLOYD.																	
S. S. Hermann, N. 49° 28′, W. 18° 42′†	29.95	760.7	56.3	13.5		s.			6		5		ssw.	0	0	cross	s.	hazy.
S. S. Hohenzollern, N. 14° 19′, W. 26° 12′*	30.01	762.2	66.2	19.0		ne.			4		5		ne.	0	0	sm'h	ne.	fair.
S. S. Leipzig, N. 38° 40′, W. 66° 10′	29.99	761.7	47.0	8.3	70	ne.			4		2		ne.	0	0	mod.	ne.	clear.
S. S. Neckar, N. 40° 15′ W. 70° 35′	30.03	762.7	41.5	5.3		calm			0		3		ese.	0	0			clear.
S. S. Oder, Bremerhaven, Germany	30.20	769.4	48.2	9.0		ne.			2		2		ne.	0	0			fair.
S. S. Ohio, N. 37° 04′, W. 76° 10′	29.96	761.0				ene.			4		8		ese.	8 h'r	8 h'r	sm'h	ene.	cloudy.
S. S. Rhein, N. 41° 34′, W. 54° 05′	29.63	752.6				nnw.			5		5		nnw.	2 h'r	2 h'r	r'gh	nnw.	fair.
S. S. Salier, N. 49° 50′, W 20° 00′	29.91	759.7	50.0	10.0		se.			6		10		se.	2 h'r	2 h'r	r'gh	sse.	light rain.
S. S. Strassburg, N. 42° 18′, W 51° 13′	29.65	753.1	37.0	2.8	100	n;nw.			3–4		8		n.	1 h'r	1 h'r	sm'h	n.	cloudy.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																	
S. S. Belgic, San Francisco, Cal†	29.86	758.4	48	8.9	85	sw.			2		8		sw.	0	0	sm'h		cloudy.
S. S. Oceanic, Yokohama, Japan*	30.12	765.0	59	15.0	94	var.			3		5		nw.					fine.
OCEAN STEAMSHIP COMPANY.																	
S. S. City of Augusta, N. 37° 01′, W. 75° 00′†.	29.93	760.2				ene.			4		10			0	0			smoky.
S. S. Seminole, Boston, Mass.†	30.02	762.5	38	3.3	81	e.			5		2		se.					clear.
OREGON IMPROVEMENT COMPANY.																	
S. S. Mississippi, Seattle, Wash. Ter.†	29.77	756.1	48	8.9	85	calm			0		10		sw.					raining.
S. S. Willamette, Seattle, Wash. Ter.*†	29.76	755.9	45	7.2	92	calm			0		7		sse.	0.1	3.			rainy.
OREGON RAILWAY AND NAVIGATION COMPANY.																	
S. S. City of Chester, N. 56° 08′, W. 133° 34′*†	29.52	749.8	30	—1.1	?	nw.			1		10		n.			sm'h		drizzling.
S. S. Columbia, N. 39° 55′, W. 124° 18′†	29.81	757.2	49	9.4	71	ssw.			3		10		ssw.			mod.	ssw.	cloudy.
S. S. Oregon, Portland, Oregon†	29.72	754.9	45	7.2	92	calm			0									hazy.
PACIFIC COAST STEAMSHIP COMPANY.																	
S. S. Ancon, San Pedro Bay, Cal.†	29.96	761.0	51	10.6	86	calm			0		2		nw.			sm'h		clear.
S. S. Idaho, Seattle, Wash. Ter.†	30.00	762 0	44	6.7	76	se.			7		8		s.					cloudy.
S. S. State of California, N. 40° 38′, W. 124° 30′†	29.76	755.9	48	8.9	78	ssw.			4		10		s.			h'vy	w.	cloudy.
S. S. Victoria, San Francisco, Cal†	29.92	759.9	48	8.9	85	sw.			2		10		sw.	0	0			cloudy.
PACIFIC MAIL STEAMSHIP COMPANY.																	
S. S. Australia, Sydney, N. S. W	30.22	767.6	63	17.2	89	e.			1		0							clear.
S. S. City of New York, S. 33° 51′, E. 151° 14′†	30.17	766.3	68	20.0	84	n.			2		0			0	0			clear.
S. S. City of Pekin, Panama†	29.91	759.7	78	25.6	86	n.			1		0					sm'h		clear
S. S. City of Rio de Janeiro, N. 24° 09′, W. 112° 09′*†	30.19	766.8	60	15.6	49	n.			3		7		n.			sm'h	nw.	cloudy.
S. S. City of Sydney, N. 16° 38′, W. 159° 38′†	30.05	763.3	76	24.4	82	ene.			5		5		ne.	0	0	mod.	ne.	fair.
S. S. City of Tokio, N. 37° 28′, W. 125° 11′†	29.96	761.0	50	10.0	93	wsw.			0		10		sw.	2 h'r	2 h'r	r'gh	sw.	cloudy.
S. S. Colon, Aspinwall, Panama†	29.90	759.4	80	26.7		ne.			2		7		ne.	0.5	13.	sm'h		cloudy.
S. S. South Carolina, Punta Arenos, Costa Rico†	29.95	760.7	80	26.7	87	calm			0		0			0	0	sm'h		fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch	Mill.			
QUEBEC S. S. COMPANY.																		
S. S. Muriel, Martinique, W. I	29.93	760.2	78	25.6	.....	ene.	.....	.....	4	.....	8	.....	.....	0	0	sm'h	.....	squally.
RED STAR LINE.																		
S. S. Belgenland, Antwerp, Belgium†	30.24	768.1	45	7.2	100	ne.	.....	.....	4	.....	3	.....	e.	0	0	.....	.....	clear.
S. S. Nederland, N. 42° 24′, W. 42° 33′*†	30.16	766.1	44	6.7	.....	se.	.....	.....	4	.....	10	.....	.....	hail	hail	sm'h	wnw.	covered.
S. S. Rhynland, Antwerp, Belgium	30.23	767.8	61	16.1	71	ene.	.....	.....	3	.....	0	.....	.....	0	0	.....	.....	clear.
S. S. Switzerland, N. 40° 23′, W. 69° 04′†	30.00	762.0	.....	.....	.....	nnw.	.....	.....	1	.....	0	.....	.....	0	0	mod	ene.	clear.
S. S. Vaderland, N. 46° 18′, W. 31° 58′	29.59	751.6	48	8.9	78	wnw.	.....	.....	6	.....	10	.....	w.	9 h'r	9 h'r	long	wnw.	cloudy.
S. S. Waesland, Jersey City, N. J	29.98	761.5	44	6.7	.....	se.	.....	.....	2	.....	10	.....	.....	0	0	.....	.....	overcast.
ROTTERDAM LINE.																		
S. S. Schiedam, N. 41° 32′, W. 60° 00′*	29.78	756.4	39.6	4.2	90	nw.	.....	.....	5	.....	5	.....	wnw.	0	0	mod.	nw.	fair.
STATE LINE.																		
S. S. State of Florida, N. 41° 03′, W. 55° 18′	29.72	754.9	39	3.9	.....	nnw.	.....	.....	6	.....	9	.....	nnw.	snow	snow	mod.	wnw.	cloudy.
THINGVALLA LINE.																		
S. S. Thingvalla, Copenhagen, Denmark†	30.42	772.7	51.8	11.0	.....	se.	.....	.....	2	.....	1	.....	se.	0	0	.....	.....	clear.
WHITE STAR LINE.																		
S. S. Adriatic, N. 41° 42′, W. 54° 22′†	29.56	750.8	37	2.8	.....	nne.	.....	.....	5	.....	10	.....	.....	rain	rain	mod.	ne.	snowing.
S. S. Baltic, N. 40° 55′ W. 68 45′†..	30.09	764.3	43	6.1	92	wsw.	.....	.....	3	.....	2	.....	w.	4 h'r	4 h'r	sli't	wnw.	d. clouds.
S. S. Britannic, N. 51° 20′, W. 11° 48′†	30.20	767.1	52	11.1	.....	ese.	.....	.....	4	.....	2	.....	ese.	0	0	sm'h	.....	d. clouds.
S. S. Celtic, Liverpool, England†	30.17	766.3	53	11.7	.....	e.	.....	.....	3	.....	0	.....	.....	0	0	.....	.....	fine
WILSON LINE.																		
S. S. Romano, N. 46° 50′ W. 29° 56′*†	29.34	745.2	49	9.4	.....	se. to w	.....	.....	7	.....	8	.....	w.	2 h'r	2 h'r	r'gh	con.	cloudy.
WINSOR LINE.																		
S. S. Catherine Whiting, Providence, R. I.†	30.10	764.5	.....	.....	.....	calm	.....	.....	0	.....	.....	.....	.....	.....	.....	.....	.....	
S. S. Norman, N. 39° 47′, W. 73° 54′	30.05	763.3	.....	.....	.....	e.	.....	.....	1	.....	8	.....	nne.	0	0	sm'h	e.	cloudy.
MISCELLANEOUS.																		
Sch. Addie Fuller, N. 23° 43′ W. 81° 15′†	30.14	765.5	76	24.4	82	se.	.....	.....	3	0	2 k	.....	se.	0	0	short	ese.	clear.
Bk. Adelaide, Rio de Janeiro, Brazil*†	30.05	763.3	81	27.2	.....	w.	.....	.....	.....	.....	.....	.....	sw.	.....	.....	.....	.....	
Schr. Ajax, N. 28° 55′, W. 89° 10′†	30.06	763.5	.....	.....	.....	calm	.....	.....	0	.....	3	.....	w.	0	0	sm'h	.....	fair.
Bk. Alpha, N. 26° 06′, W. 67° 09′†	30.02	762.5	75	23.9	.....	calm	.....	.....	0	.....	3	.....	se.	0	0	sm'h	.....	fair.
Bk. Antioch, S. 30° 50′, W. 24° 00′*†	30.00	762.0	78	25.6	.....	nnw.	.....	.....	6	.....	2	.....	se.	0	0	mod.	se.	clear.
Schr Asa Eldridge, Charlotte Harbor,†	30.11	764.8	.....	.....	.....	sse.	.....	.....	3	.....	5	.....	s.	0	0	.....	.....	
Bk. Aureola, N. 23° 53′, W. 35° 21′*†	30.30	769.6	90?	32.2?	.....	calm	.....	.....	0	.....	0	.....	.....	0	0	mod.	nnw.	clear.
Schr. Annie M. Smull, S. 40° 38′, E. 12° 00′*†	29.90	759.4	59	15.0	.....	w.	.....	.....	.....	.....	.....	.....	w.	0	0	.....	.....	
Bk. Bergenseren, N. 36° 33′ W. 2° 50′†	30.04	763.0	.....	.....	.....	wsw.	.....	.....	1	.....	.....	.....	.....	0	0	l	e.	clear.
Carrie Heckle, N. 29° 40′, W. 70° 56′*†	30.18	766.6	70	21.1	.....	wsw.	.....	.....	4	.....	2	.....	wsw.	0	0	sm'h	se.	clear.
Bk. Celestina, S. 19° 51′, W. 36° 45′*†	30.02	762.5	.....	.....	.....	e.	.....	.....	2	.....	2	.....	e.	0	0	sm'h	e.	fine.
Bk. Champion, N. 40° 10′, W. 60° 01′†	29.51	749.5	.....	.....	.....	nw.	.....	.....	9	.....	10	.....	n.	snow	snow	r'gh	ese.	
Dora, Mississippi River†	30.09	764.3	77.5	25.3	.....	ssw.	.....	.....	2	.....	9	.....	se.	0	0	.....	.....	cloudy.
Bk. E. L. Pettingill, N. 13° 14′, W. 124° 26′†	29.90	759.4	.....	.....	.....	nne.	.....	.....	5	.....	10	.....	ne.	0	0	r'gh	nne.	overcast.
S. Enoch Train, N. 49° 04′ W. 23° 30′*	29.54	750.3	.....	.....	.....	sw.	.....	.....	6	.....	5	.....	wsw.	rain	rain	light	sw.	fine.
S. Exporter, N. 26° 46′, W. 29° 00′*†	30.30	769.6	.....	.....	.....	s.	.....	.....	2	.....	1	.....	w.	0	0	long	nw.	fine.
S. Festina Lente, N. 49° 37′, W. 38° 29′*	29.40	746.7	50.5	10.3	.....	ese.	.....	.....	5	.....	10	.....	ese.	24 h'r	24 h'r	r'gh	var.	raining.
U.S.F.C.S.S.Fish Hawk, Washington, D. C.†	30.09	764.3	52	11.1	100	ene.	.....	.....	1	.....	10	.....	calm.	0.15	3.8	.....	.....	drizzling
S. Grecian, S. 33° 30′ W. 26° 34′*†	29.90	759.4	69	20.6	.....	w.	.....	.....	4	.....	0	.....	.....	0	0	mod.	sw.	clear.
Bk. Freya, N. 36° 35′ W. 66° 30′	.....	.....	62	16.7	.....	nne.	.....	.....	3	.....	8	.....	nne.	0	0	mod.	nw.	fair.
Bk. Granville, S. 37° 29′, E. 7° 36′*†	30.25	768 3	.....	.....	.....	wnw.	.....	.....	1	.....	.....	.....	nw.	0	0	sm'h	.....	clear.
Schr. Hattie G. McFarland, Chesapeake Bay*†	29.92	760,0	58	14.4	.....	ene.	.....	.....	3	.....	10	.....	e.	6 h'r	6 h'r	mod.	.....	hazy.
Schr. Henry Denison, Port Antonio, Jamaica†	29.98	761.5	.....	.....	.....	ene.	.....	.....	4	.....	3	.....	e.	rain	rain	.....	.....	fair.
S. Hedwig, N. 48° 04′, W. 37° 31′	29.48	748.9	44.2	6.8	91	wsw.	.....	.....	6	.....	10	.....	wsw.	11 h'r	11 h'r	3	w.	clearing.
Schr. John L. Thomas, N. 26° 53, W. 69° 56′*†	30.02	762.5	.....	.....	.....	sw.	.....	.....	.....	.....	2	.....	sw.	0	0	.....	.....	fine.
Bg. John Wesley, Sagua La Grande, Cuba, W. I.†	29.99	761.7	77	25 0	.....	ese.	.....	.....	2	.....	1	.....	.....	0	0	.....	.....	clear.
Bk. Jona, N. 36° 41′, W. 60° 31′*†	30.00	762,0	.....	.....	.....	nnw.	.....	.....	4	.....	5	.....	nw.	3 h'r	3 h'r	hv'y	var.	fair.
Bkt. Josephine, As Inwall, Panama*†	29.99	761.7	83	28.3	70	ene.	.....	.....	2	.....	8	.....	.....	1 h'r	1 h'r	.....	.....	fair.
S. Lake Erie, N. 38° 00′, W. 70° 00′*†	29.90	759.4	.....	.....	.....	ene.	.....	.....	6	.....	8?	.....	ese.	rain	rain	cross	.....	clear.?
Bk. Liberia, N. 28° 07′, W. 27° 29′*†	30.20	767.1	68	20.0	90	ssw.	.....	.....	3	.....	9	.....	.....	0	0	long	nw.	fine.
Light House Tender, Laurel, Key West, Fla.†	30.04	763.0	77	25.0	.....	se.	.....	.....	2	.....	3	.....	se.	0	0	.....	.....	fair.
Schr. Maggie Abbot, N. 35° —′, W. 73° —′*†	29.92	760.0	.....	.....	.....	ene.	.....	.....	.....	.....	.....	.....	sw.	rain	rain	.....	.....	
S. S. Malabar, Off Hartland Point, Eng.*†	30.17	766.3	.....	.....	.....	ne	.....	.....	3	.....	.....	.....	ne.	0	0	.....	.....	
Bg. Medina, Key Francis, W. I.†	30.07	763.8	.....	.....	.....	se.	.....	.....	1	.....	10	.....	ese.	.....	.....	.....	.....	fine.
S. S. Nebo, Rio de Janeiro, Brazil*†	29.98	761.5	.....	.....	.....	se.	.....	.....	1	.....	10	.....	se.	0	0	.....	.....	cloudy.
S. S New York, Off Cape Spartivento, Sardinia*†	30.50	774.7	.....	.....	.....	ne.	.....	.....	4	.....	.....	.....	e.	light	light	h'vy	ese.	cloudy.
Bk. Peppina, N. 44° 57′, W. 12° 08′†	30.09	764.3	61	16.1	88	se.	.....	.....	1	.....	0	.....	.....	.....	.....	sm'h	.....	clear.
S. S. Radnorshire, N. 41° 36′, W. 39° 54′*†	29.53	750.0	.....	.....	.....	se.	.....	.....	5	.....	10	.....	se.	4 h'r	4 h'r	mod.	n.	cloudy.
S. Salisbury, N. 23° 08′ W. 37° 06′*	30.09	764.3	70.9	21.6	71	sse.	.....	.....	1	.....	1	.....	ssw.	0	0	long	n.	clear.
Bkt. Spotless, N. 1° 44′, W. 27° 17′	.....	.....	.....	.....	.....	ne.	.....	.....	.....	.....	.....	.....	ne.	.....	.....	hv'y	se.	squally.
Bk. Stella, S. 57° 34′, W. 73° 40′*	30.27	768.8	41.0	5.0	95	n.	.....	.....	6	.....	10	.....	n.	rain	rain	mod.	sw.	raining.
S. S. Victoria J Peed, Barranquila, U. S.C*†	29.11	739.4	.....	.....	.....	se.	.....	.....	1	.....	2	.....	.....	.....	.....	.....	.....	
S. Wm. Woodbury, N. 47° 17′, W. 32° 30′*†	29.18	741.2	44	6.7	.....	s.	.....	.....	9	.....	10	.....	s.	.....	.....	h'vy	s.	raining.

International Chart I. April 9, 1882. Isobars and Isotherms.



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON APRIL 10, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours	.....	.....	30.04	763.1	71.6	22.0	79	w.	.....	.....	3	.....	0	.....	.....	0	0	clear	Moiroud.
Algiers	.....	.....	29.97	761.1	65.1	18.4	65	wsw.	.....	.....	7	.....	2	.....	.....	0	0	fair	Nicolas.
La Calle	.....	.....	29.91	759.7	63.7	17.6	82	nw.	.....	.....	3	.....	4	.....	.....	0.287	7.3	cloudy	Fonfréde.
Tunis	.....	.....	29.88	758.9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.08	763.9	56.7	13.7	78	nw.	.....	.....	1	.....	4	.....	.....	inap.	inap.	cloudy	Dumas.
Tebessa	.....	.....	30.01	762.2	51.4	10.8	58	n.	.....	.....	2	.....	2	.....	.....	0.276	7.0	fair	Derché.
Geriville	.....	.....	.....	.....	49.3	9.6	47	nw.	.....	.....	7	.....	9	.....	.....	0.024	0.6	covered	Lonchamp.
Laghouat	.....	.....	30.09	764.3	57.2	14.0	69	w.	.....	.....	2	.....	2?	.....	.....	0	0	cloudy?	Abraham.
Biskra	.....	.....	30.02	762.5	73.4	23.0	18	w.	.....	.....	2	.....	4	.....	.....	0	0	cloudy	Malau.
Australian.																			
Melbourne, Victoria	29.81	757.2	29.90	759.4	69.4	20.8	44	ne.	7	3.1	.....	.....	2	.....	.....	0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.25	743.0	29.82	757.3	41.4	5.2	85	ne.	.....	.....	2	.....	10	.....	.....	0.157	4.0	raining	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.21	741.8	29.99	761.8	40.3	4.6	62	e.	9.8	4.4	.....	.....	10	.....	.....	0.110	2.8	.....	Dr. Wierzbiski.
Eperies	29.05	737.9	29.97	761.1	35.2	1.8	89	calm	.....	.....	0	.....	10 n	.....	.....	0.205	5.2	.....	Julius Mikolik.
Gratz	28.64	727.5	29.94	760.4	36.5	2.5	86	e.	.....	.....	3	.....	10	.....	.....	0	0	.....	Andreas Rospini.
Hermannstadt	28.48	723.4	29.92	759.9	49.5	9.7	45	sse.	.....	.....	4	.....	0	.....	.....	0	0	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.60	726.3	30.00	761.9	32.7	0.4	85	wnw.	.....	.....	2	.....	10	.....	.....	0.122	3.1	snowing	The Staff.
Lemberg	28.93	734.9	29.93	760.3	47.3	8.5	89	s.	.....	.....	1	.....	10	.....	.....	0	0	.....	Dr. T. Stanecki.
Pola	29.65	753.0	29.76	755.8	54.7	12.6	80	se.	.....	.....	2	.....	10	.....	.....	0.031	0.8	.....	I. R.Hydrographic Office.
Szathmar	29.40	746.7	29.86	758.5	57.2	14.0	32	e.	.....	.....	3	.....	5	.....	.....	0	0	.....	Joseph Midlinszky, S. J.
Szegedin	29.58	751.4	29.87	758.6	46.0	7.8	61	se.	.....	.....	3	.....	10	.....	.....	0.071	1.8	.....	Karl Stancel.
Trieste	29.73	755.2	29.84	757.8	42.8	6.0	74	ne.	.....	.....	1	.....	10	.....	.....	0.220	5.6	.....	Rieder.
Vienna	29.21	742.0	29.94	760.5	42.4	5.8	52	ese.	.....	.....	1	.....	9	.....	.....	0.181	4.6	.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	30.03	762.7	30.13	765.3	41.0	5.0	69	w.	7	3.1	.....	.....	10	.....	.....	0	0	overcast	W. Boswell.
Armagh, Observatory	29.89	759 2	30.14	765.5	54.6	12.6	48	wsw.	1	0.4	.....	.....	1	.....	.....	.....	.....	d. clouds	S. Call.
Bidston, Liverpool Obs'y	.....	.....	30.10	764.5	52.2	11.2	72	w.	12	5.4	.....	.....	3	.....	.....	.....	.....	d. clouds	John Hartnup.
Bolton, Sharples	29.54	750.3	30.08	764.0	53.7	12.1	53	w.	12	5.4	.....	.....	5	.....	.....	.....	.....	d. clouds	Thomas Mackereth. [A.S.
Bradford, Yorkshire	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0	0	.....	J.McLandsborough, F. R
Bridgetown, Barbadoes	29.94	760.5	29.98	761.5	80.0	26.7	70	ne.	.....	.....	3	.....	6	.....	.....	.....	.....	gloomy	Corpl.J.Surgenor, A.H.C.
Cardington	.....	.....	30.09	764.3	52.0	11.1	61	e.	.....	.....	0.4	.....	5	.....	.....	.....	.....	d. clouds	John McLaren.
Chatham, School M. E	30.00	762.0	30.13	765.3	52.5	11.4	79	e.	.....	.....	1	.....	7	.....	.....	.....	.....	d. clouds	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	29.92	760.0	30.15	765.8	52.0	11.1	78	ese.	.....	.....	1	.....	3	.....	.....	.....	.....	misty	The Staff.
Fort Napier, Natal	27.50	698.5	29.72	754.9	78.0	25.6	73	se.	.....	.....	1	.....	2	.....	.....	.....	.....	blue sky	Pvt. E. K.Annis, A.H.C.
Free Town, Sierra Leone	29.56	750.8	29.80	756.9	89.0	31.7	56	w.	.....	.....	1	.....	3	.....	.....	.....	.....	blue sky	Sergt. John Robinson.
Gibraltar, Mediterranean	30.02	762.5	30.07	763.8	68.2	20.1	76	sw.	.....	.....	4	.....	0	.....	.....	.....	.....	blue sky	Cpl. O. Baldwin.
Glasgow, Observatory	29.87	758.7	30.08	764.0	41.7	5.4	87	ene.	.....	.....	3	.....	10	.....	.....	.....	.....	misty	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.95	760.7	30.12	765.0	52.9	11.6	59	se.	.....	.....	1	.....	8	.....	.....	.....	.....	d. clouds	The Staff.
Guernsey	29.84	757.9	30.14	765 5	52.0	11.1	72	ne.	.....	.....	1	.....	0	.....	.....	.....	.....	blue sky	A. Collenette, F. M. S.
Kew, Observatory	30.09	764.3	30.12	765.0	48.7	9.3	60	se.	3	1.3	.....	.....	10	.....	.....	.....	.....	misty	The Staff.
Leicester, Museum	29.82	757.4	30.07	763.8	52.0	11.1	79	sw.	.....	.....	1	.....	4	.....	.....	.....	.....	d. clouds	J. C. Smith.
Malta, Mediterranean	29.69	754.1	29.77	756.1	58.0	14.4	96	ne.	.....	.....	3	.....	8	.....	.....	blank	blank	overcast	I. H. Whysall.
Nassau, Bahamas	29.94	760.5	29.99	761.7	76.8	24.9	73	s.	.....	.....	1	.....	7	.....	.....	.....	.....	d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.57	751.1	30.10	764.5	54.1	12.3	48	sse.	.....	.....	1	.....	6	.....	.....	.....	.....	d. clouds	John Mac Email.
Oxford, Radcliffe Obs'y	29.89	759.2	30.12	765.0	51.7	10.9	51	ssw.	.....	.....	1	.....	1	.....	.....	.....	.....	misty	The Staff.
Plymouth	30.06	763.5	30.14	765 5	53.5	11.9	70	s.	.....	.....	3	.....	0	.....	.....	.....	.....	blue sky	John Merrifield.
Sandwick Manse, Orkneys	.....	.....	30.14	765.5	44	6.7	77	calm	.....	.....	0	.....	10	.....	.....	.....	.....	misty	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.85	758.2	29.91	759.7	52.4	11.3	58	ne.	.....	.....	2	.....	9	.....	.....	blank	blank	d. clouds	W. H. Lyne.
Sheffield	29.79	756.7	30.07	763.8	56.0	13.3	55	calm	.....	.....	0	.....	7	.....	.....	0	0	d. clouds	W. F. Cooper.
Silloth Rectory	30.05	763.3	30.08	764.0	52.0	11.1	62	wsw.	.....	.....	1	.....	0	.....	.....	0	0	blue sky	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	30.08	764.0	53.0	11.7	53	w.	12	5.4	.....	.....	0	.....	.....	.....	.....	blue sky	Rev. S. J. Perry.
Stratfield Turgiss	29.91	759.7	30.13	765.3	50.0	10.0	61	sw.	.....	.....	1	.....	6	.....	.....	.....	.....	d. clouds	Rev.C.H.Griffiths, F.M.S.
Truro, Royal Institution	30.08	764.0	30.11	764.8	63	17.2	61	se.	.....	.....	4	.....	4	.....	.....	.....	.....	d. clouds	W. Newcombe.
Valencia, Observatory	30.12	765 0	30.15	765.8	54.1	12.3	68	s.	9	4.0	.....	.....	7	.....	.....	.....	.....	misty	The Met'g'l Office.
Canadian.																			
Bathurst, N. B	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.67	753.6	29.72	754.9	25	— 3.9	71	sw.	5	2.2	.....	0	0	.....	.....	0.010	0.3	clear	H. J. Cundall, C. E.
Chatham, N. B*	29.63	752.6	29.69	754.1	23	— 5.0	84	sw.	4	1.8	.....	0	0	.....	.....	0	0	clear	G. A. Blair.
Father Point, Quebec*	29.65	753.1	29.67	753.6	25	— 3.9	92	n.	18	8.0	.....	.....	1C n	.....	nw.	inap.	inap.	light snow	J. McWilliams.
Fort Garry, Manitoba*	29.66	753.4	30.59	777.0	6	—14.4	96	e.	3	1.3	.....	0	0	.....	.....	0	0	clear	James Stewart.
Halifax, N. S*	29.64	752.8	29.77	756.1	28	— 2.2	67	w.	3	1.3	.....	0	0	.....	.....	0	0	clear	A. Allison.
Kingston, Ontario*	29.58	751.3	29.94	760.5	21	— 6.1	70	n.	12	5.4	.....	.....	10 k	.....	.....	0	0	clear	A. P. Knight, M. A.
Montreal, Quebec*	29.70	754.4	29.92	760.0	21	— 6.1	58	n.	10	4.5	.....	2 c	8 ks	.....	W.	0	0	cloudy	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.34	745.2	30.09	764.3	14	—10.0	83	n.	16	7.2	.....	5k	5 ks	ne.	ne.	0	0	cloudy	Rev. R. Mosley.
Port Dover, Ontario	29.21	741.9	29.94	760.5	24	— 4.4	87	ne.	20	8.9	.....	10 k	0	n.	.....	0	0	fair	H. Morgan.
Port Stanley, Ontario	29.27	743.4	29.95	760.7	26	— 3.3	88	n.	12	5.4	.....	.....	10 k	.....	ne.	0	0	cloudy	M. Payne.
Quebec, Quebec*	29.47	748.5	29.81	757.2	16	— 8.9	83	nw.	.....	.....	5	0	2 s	.....	nw.	0	0	clear	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.57	751.1	30.06	763.5	15	— 9.4	67	n.	8	3.6	.....	.....	10 s	.....	.....	inap.	inap.	light snow	W. H. McIntyre.
Saugeen, Ontario*	29.30	744.2	30.07	763.8	19	— 7.2	73	n.	12	5.4	.....	.....	10 s	.....	.....	inap.	inap.	light snow	
St. Andrews, N .B	29.70	754.4	29.75	755.6	25	— 3.9	80	nw.	4	1.8	.....	0	0	.....	.....	0	0	clear	
Sydney, C. B*	29.71	754.6	29.77	756.1	27	— 2.8	70	calm	0	0	.....	10 k	0	sw.	.....	0	0	fair	T. C. Hill, C. E.
Toronto, Ontario*	29.58	751.3	29.99	761.7	23	— 5.0	61	n.	13	5.8	.....	.....	10 ks	.....	nw.	0	0	cloudy	Magnetic Observatory.
Yarmouth, N. S*	29.70	754.4	29.77	756.1	29	— 1.7	84	ne.	2	0.9	.....	.....	10 k	.....	ne.	inap.	inap.	cloudy	Lt. F. E. Wilmot, R. N.
Sub-series.																			
St. Johns, Newfoundland	29.60	751.8	29.86	758.4	28	— 2.2	.....	w.	1	0.4	.....	10 k	10 s	.....	.....	0	0	.....	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	29.93	760.2	29.96	761.0	66.5	19.2	81	wsw.	10.0	4.5	.....	0	1 s	.....	.....	0	0	light haze	John Duthie.
Cape Town, C. G. H. Obs'y	30.00	762.0	30.04	763.0	73.8	23.2	62	ssw.	5	2.2	.....	6	8	.....	.....	0	0	.....	The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	OBSERVERS.
CHINESE (*Sub-series*).																			
Hankow	29.68	753.9	29.95	760.7	61.8	16.6	94	n.	.....	.....	2	.....	10	.....	.....	0.48	12.2	.....	N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.73	755.2	29.76	755.8	62.6	17.0	91	e.	1.8	0.8	.....	10 ck	fg	.....	.....	0	0	covered	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	30.06	763.5	30.11	764.7	41.9	5.5	49	se.	10.1	4.5	.....	.....	6	.....	.....	.....	.....	.....	Oversergent Fischer.
Fanöe	30.09	764.2	30 11	764.7	44.2	6.8	61	w.	.....	.....	4	.....	1	.....	.....	.....	.....	.....	Overloerer Lauridsen.
Godthaab, Greenland	30.50	774.6	30.54	775.7	29.1	— 1.6	84	ne.	.....	.....	3	.....	9	.....	.....	.....	.....	.....	S. Kleinschmidt.
Stykkisholm, Iceland	30.57	776.5	30.61	777.6	21.2	— 6.0	90	ne.	.....	.....	8	.....	3	.....	.....	.....	.....	.....	A. O. Thorlacius.
Thorshavn	30.26	768.6	30.30	769.5	36.1	2.3	89	ne.	18	8	.....	.....	10	.....	.....	.....	.....	snowing	Overloerer Bergh.
Vestervig	29.98	761.6	30.08	763.9	43.9	6.6	71	sw.	.....	.....	4	.....	10	.....	.....	.....	.....	.....	Loerer Oesterboi.
FRENCH.																			
Agen, Normal School	29.40	746.7	30.06	763.6	51.4	10.8	57	calm	.....	.....	0	.....	0	.....	.....	0	0	clear	M. Labroue, Director.
Alençon, Normal School	29.56	750.9	30.11	764.9	50.0	10	86	ne.	.....	.....	1	.....	k	n.	nw.	0	0	.....	M. Nicot, Director.
Arras, Engineer School	29.86	758.5	30.12	765.1	50.0	10.0	47	ne.	.....	.....	.....	0	2 k	.....	n.	0	0	clear	Capt. Bertrand, Dir.
Avignon, Normal School	29.80	756.8	29.87	758.8	59.0	15	33	n.	.....	.....	4	.....	0	.....	.....	0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.48	748.8	30.04	763.1	50.0	10.0	39	se.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Saillard, Director.
Beauvais, Normal School	29.84	757.9	30.11	764.8	48.0	8.9	31	e.	.....	.....	1	.....	2	.....	ne.	0	0	slightly cl'dy	M. Frère Eugène Mari.
Besançon, Normal School	29.02	737.1	30.03	762.7	52.5	11.4	95	ne.	.....	.....	3	.....	1	.....	nw.	0	0	clear	M. Gobin, Director.
Bordeaux, Observatory	29.74	755.5	30.00	762.1	58.5	14.7	52	nw.	.....	.....	1	.....	5	.....	.....	0	0	cloudy	M. Rayet, Director.
Bourges, Normal School	29.50	749.2	30.10	764.4	51.8	11	41	n.	.....	.....	1	.....	.....	.....	.....	0	0	.....	M. Postel, Director.
Brest, Naval Observatory	29.88	758.9	30.12	765.1	55.0	12.8	70	calm	.....	.....	0	.....	6	.....	.....	0	0	.....	M. de Kermaree, Dir.
Caen, Normal School	30.01	762.3	30.09	764.2	53.6	12	50	ne.	.....	.....	2	.....	2	.....	ne.	0	0	slightly cl'dy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.75	755.7	30.08	763.9	53.6	12.0	65	ese.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Jadot, Director.
Charleville, Normal School	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.61	726.6	29.96	761.0	54.0	12.2	43	n.	.....	.....	1	.....	5	.....	nw.	0	0	½ covered	M. Alluard, Director.
Cluny, Normal School	29.15	740.3	29.99	761.8	46.8	8.2	51	n.	.....	.....	2	.....	.....	n.	.....	0	0	.....	M. de Villemontée, Dir.
Commercy, Normal School	29.21	741.8	30.08	764.1	46.4	8.0	38	ne.	.....	.....	1	.....	2 k	ne.	ne.	0	0	slightly cl'dy	Dr. Coulet, Director.
Gap, Normal School	27.18	690.3	29.63	752.5	64.4	18	1	n.	.....	.....	2	.....	.....	.....	.....	0	0	.....	M. Jeangirard, Director.
Gréasque, dn. Rhone	28.63	727.2	29.76	755.8	54.1	12.3	22	nw.	.....	.....	4	.....	1	.....	nw.	0	0	.....	M. Kina, Director.
Grenoble, Normal School	29.09	738.9	29.87	758.6	50.4	10.2	41	nw.	.....	.....	4	ck	0	.....	.....	0	0	.....	M. Ablard, Director.
Guéret, Normal School	28.41	721.7	30.00	762.0	49.1	9.5	73	ne.	.....	.....	1	c	kn	.....	sw.	0	0	.....	M. Rivoire, Director.
Lamballe, Normal School	29.90	759.4	30.17	766.4	54.7	12.6	60	ne.	.....	.....	2	.....	1	.....	ne.	0	0	clear	M. Olliffault, Director.
Lescar, Normal School	29.49	749.0	30.05	763.3	57.2	14.0	89	wsw.	.....	.....	1	0	5 kn	.....	.....	0	0	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	30.03	762.7	30.13	765.3	57.2	14.0	89	ne.	.....	.....	1	.....	5	.....	n.	0	0	½ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.91	734.4	29.98	761.6	47.8	8.8	31	n.	.....	.....	2	0	2 n	.....	n.	0	0	clear	M. André, Director.
Mans, Normal School	29.81	757.1	30.12	765.0	50.0	10	49	ne.	.....	.....	3	.....	0	.....	.....	0	0	.....	M. Piboen, Director.
Marseille, Observatory	29.52	749.7	29.78	756.5	58.6	14.8	39	nw.	.....	.....	6	.....	2	.....	nw.	0	0	.....	M. Stephan, Director.
Montlouis l'Instituteur	24.74	628.4	29.58	751.4	42.1	5.6	40	w.	5.6	2.5	.....	.....	3	w.	.....	.....	.....	.....	M. Cave, for Dr. Fines.
Montpellier, Normal School	29.70	754.4	29.83	757.7	64.4	18	28	nw.	.....	.....	4	.....	2	.....	n.	0	0	slightly cl'dy.	M. Galzin, Director.
Nancy, Normal School	29.23	742.5	30.02	762.5	50.0	10	40	n.	.....	.....	1	2 k	0	ne.	.....	0	0	slightly cl'dy	M. Hasse, Director
Nantes, Observatory	29.94	760.5	30.10	764.6	57.0	13.9	45	nne.	.....	.....	1–2	ck	5 k; kn	.....	n.	0	0	.....	M. Larocque, Director.
Perpignan, Observatory	29.80	757.0	29.91	759.8	61.5	16.4	25	n.	31.8	14.2	.....	.....	.....	n.	.....	0	0	.....	Dr. Fines, Director.
Pic-du-Midi, Summit	21.10	535.9	.....	.....	17.6	— 8.0	.....	w.	.....	.....	1	.....	1c	.....	w.	0.169	4.3	snowy	Gen'l de Nansouty, Dir.
Privas, Normal School	28.84	732.6	29.93	760.3	45.0	7.2	77	n.	.....	.....	4	.....	0	.....	.....	0	0	clear	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.02	635.5	.....	.....	30.6	— 0.8	71	nnw.	.....	.....	3	.....	5	.....	.....	0	0	½ covered	M. Alluard, Director.
Rochefort, Naval Obs'y	30.01	762.3	30.04	763.1	65.5	18.6	81	nnw.	.....	.....	1	.....	5	.....	wnw.	0	0	½ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.84	757.8	30.05	763.3	56.8	13.8	58	ne.	.....	.....	1	.....	2	.....	ne.	0	0	slightly cl'dy	M. Mouillot, Director.
Rodez, Normal School	27.80	706.1	29.94	760.5	52.2	11.2	43	nw.	.....	.....	3	.....	0	.....	.....	0	0	clear	M. Serger, Director.
Rouen, Normal School	30.04	763.1	30.09	764.3	54.7	12.6	38	e.	.....	.....	1	.....	8	ne.	.....	0	0	very cloudy.	M. Brotier.
Saint Maur, Observatory	29.92	760.0	30.09	764.2	48.6	9.2	33	ne.	.....	.....	2	.....	.....	n.	.....	0	0	.....	M. Renou, Director.
Toulouse, Observatory	29.31	744.4	30.03	762.8	59.5	15.3	45	nw.	.....	.....	2	.....	5	nw.	.....	0	0	cloudy	M. Bailland, Director.
Versailles, Observatory	29.58	751.3	30.07	763.8	48.9	9.4	33	e.	.....	.....	2	.....	.....	.....	.....	0	0	.....	Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.80	756.8	30.09	764.2	49.6	9.8	27	e.	.....	.....	1	.....	4	.....	n.	0	0	.....	M. Marié Davy, Director
GERMAN.																			
Bamberg	29.15	740.3	30.00	762.0	41.0	5.0	44	n.	.....	.....	4	0	6 k	.....	n.	0.008	0.2	.....	Prof. Dr. Hoh.
Berlin	29.83	757.7	30.01	762.3	40.8	4.9	42	n.	.....	.....	1	.....	7	.....	.....	0.020	0.5	.....	Prof. Dr. Arndt.
Breslau	29.50	749.4	30.04	762.9	40.3	4.6	47	nnw.	.....	.....	1	.....	10	.....	.....	0.008	0.2	.....	Royal University Obs'y.
Carlsruhe	29.61	752.2	30.06	763.6	44.4	6.9	36	e.	.....	.....	1	.....	1	ne.	.....	0	0	.....	Albert Senz.
Cassel	29.28	743.7	29.99	761.8	42.1	5.6	36	nnw.	.....	.....	6	.....	5	nw.	.....	0.118	3.0	.....	Physical Society.
Frankfort on the Main	29.69	754.2	30.06	763.6	47.5	8.6	29	n.	.....	.....	1	.....	7	.....	.....	0	0	.....	Wilhelm, Chief Tel.
Friedrichshafen	28.58	725.8	30.06	763.5	37.9	3.3	92	ne.	.....	.....	4	.....	4	ne.	.....	0.193	4.9	.....	E. Preller.
Hamburg	30.00	761.9	30.09	764.3	35.6	2.0	94	n.	.....	.....	3	.....	8	.....	.....	0.039	1.0	snow squalls	Prof. Dr. G. Karsten.
Kiel	30.09	764.2	30.10	764.6	41.2	5.1	62	nne.	.....	.....	2	.....	6	.....	.....	0	0	.....	H. Leppig, Asst.
Leipsic, Astrom'l Obs'y	29.60	751.7	30.03	762.7	38.5	3.6	60	nnw.	.....	.....	2	.....	8	nnw.	.....	0	0	.....	Dr. Assmann.
Magdeburg	29.85	758.2	30.05	763.3	36.0	2.2	87	nw.	.....	.....	2	.....	10 ks	.....	nnw.	inap.	inap.	snowing	Issermann.
Memel	30.12	765.1	30.17	766.3	46.4	8.0	51	nw.	.....	.....	2	0	8 ks	.....	.....	.....	.....	.....	Central Station.
Munich	28.15	715.1	30.02	762.4	33.6	0.9	79	nw.	.....	.....	1	.....	6	w.	.....	0.209	5.3	.....	A. Lothes.
Neufahrwasser	30.08	763.9	30.09	764.3	40.3	4.6	79	ene.	.....	.....	1	.....	10	.....	.....	0.024	0.6	light rain	Dicknether.
Neustadt, Palatinate	29.53	750.1	30.06	763.5	43.9	6.6	42	n.	.....	.....	3	.....	8	n.	.....	0	0	.....	Prof. Dr. Schoder.
Stuttgart	29.07	738.4	29.98	761.5	42.8	6.0	39	n.	.....	.....	2	.....	4	n.	.....	0	0	.....	Profs. Brandes & Reimer.
Wustrow	30.08	764.1	30.11	764.8	42.1	5.6	49	ene.	.....	.....	2	0	5 k	.....	.....	0	0	.....	
GREEK.																			
Athens	29.50	749.4	29.90	759.5	51.3	10.7	.....	ne.	.....	.....	3.0	10	.....	.....	.....	0.031	0.8	covered	Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.78	756.3	29.83	757.6	83.6	28.7	54	wsw.	32.0	14.3	.....	.....	1	.....	.....	0	0	misty	
Deesa	29.28	743.6	29.73	755.2	97.4	36.3	7	sw.	7.1	3.2	.....	.....	0	.....	.....	0	0	blue sky	
Bombay	29.81	757.1	29.84	758.0	83.5	28.6	65	wnw.	11.0	4.9	.....	.....	0	.....	.....	0	0	blue sky	
Poona, Yarrowda	27.95	709.8	29.76	755.8	90.7	32.6	20	w.	20.0	8.9	.....	.....	0	.....	.....	0	0	blue sky	
Belgaum	27.27	692.6	29.76	755.9	83.8	28.8	56	ssw.	10.0	4.5	.....	.....	0	.....	.....	0	0	misty	
Lahore	29.06	738.1	29.60	756.8	83.0	28.3	36	w.	3.0	1.3	.....	.....	0	.....	.....	0	0	blue sky	
Roorkee	28.83	732.3	29.71	754.7	87.6	30.9	20	nw.	2.1	0.9	.....	.....	0	.....	.....	0	0	blue sky	
Agra	29.20	741.8	29.76	755.8	92.2	33.4	23	w.	5.7	2.6	.....	.....	0	.....	.....	0	0	.....	
Nagpur	28.64	727.4	29.64	752.8	101.2	38.4	19	w.	4.2	1.9	.....	.....	7	.....	w.	0	0	d. clouds	
Jubbulpore	28.38	720.7	29.69	754.0	95.2	35.1	15	n.	2.4	1.1	.....	.....	0	.....	.....	0	0	blue sky	
Lucknow	29.39	746.6	29.76	755.9	92.8	33.8	35	wnw.	6.0	2.7	.....	.....	0	.....	.....	0	0	blue sky	
Allahabad	29.40	746.8	29.71	754.6	93.5	34.2	12	nw.	2.9	1.3	.....	.....	0	.....	.....	0	0	blue sky	
Patna	29.54	750.3	29.72	754.9	93.7	34.3	20	wnw.	5.0	2.2	.....	.....	0	.....	.....	0	0	blue sky	
Hazaribagh	27.72	704.1	29.69	754.2	85.8	29.9	22	nw.	9.4	4.2	.....	.....	7	nw.	se.	0.06	1.5	thud'rstorm	
Cuttack	29.67	753.6	29.75	755.6	87.1	30.6	64	ssw.	3.8	1.7	.....	.....	8	.....	.....	0	0	.....	
Calcutta, Alipore	29.68	753.7	29.70	754.3	85.1	29.5	49	s.	11.0	4.9	.....	.....	3	.....	.....	0	0	d. clouds	
Dhubri	29.56	750.7	29.68	753.7	81.0	27.2	74	s.	4.6	2.1	.....	.....	0	.....	.....	0	0	blue sky	
Chittagong	29.74	755.3	29.83	757.6	81.2	27.3	85	sw.	7.1	3.2	.....	.....	2	.....	.....	0	0	blue sky	
Sibsagar	29.45	748.0	29.79	756.7	69.0	20.6	95	ne.	3.4	1.5	.....	.....	10	w.	w.	0.54	13.7	d. clouds	
Jeypore	28.35	720.1	29.77	756.1	88.9	31.6	14	n.	5.8	2.6	.....	.....	0	.....	.....	0	0	blue sky	
Zanzibar, Africa	29.83	757.7	.....	.....	85.6	29.8	63	sw.	3.3	1.5	.....	.....	5	.....	.....	0	0	d. clouds	
Bellary	28.28	718.3	.....	.....	97.0	36.1	28	w.	4.3	1.9	.....	4 ck	5	sw.	.....	0	0	gloomy	
Trichinopoly	29.54	750.3	.....	.....	94.4	34.7	42	ese.	2	0.9	.....	.....	10	.....	.....	0	0	overcast	
ITALIAN.																			
Udine	29.43	747.6	29.84	758.0	44.4	6.9	52	ne.	1.3	0.6	.....	.....	10	.....	.....	0	0	.....	Prof. Giovanni Clodig.
Milan	29.25	743.0	29.77	756.1	55.8	13.2	43	se.	3.1	1.4	.....	.....	6	ene.	.....	0	0	.....	Prof. Schiaparelli.
Padua	29.72	754.9	29.83	757.7	41.0	5.0	87	ne.	8.7	3.9	.....	.....	10	w.	.....	0.484	12.3	.....	Prof. Dott. Lorenzoni.
Moncalieri	28.82	731.9	29.72	754.8	53.4	11.9	55	e.	1.3	0.6	.....	.....	8	ne.	.....	0.016	0.4	.....	Prof. P. F. Denza.
Genoa	29.54	750.3	29.73	755.1	57.7	14.3	37	n.	4.3	1.9	.....	.....	0	.....	.....	0.098	2.5	.....	Prof. G. M. Garibaldi.
Mondovi	27.82	706.7	29.74	755.5	49.3	9.6	49	nw.	.....	.....	2	.....	6	s.	.....	0.008	0.2	.....	Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
ITALIAN.—Continued.																			
Pesaro	29.69	754.2	29.74	755.4	51.4	10.8	82	se.	8.1	3.6			10	nw.		0	0		Prof. Luigi Guidi.
Florence	29.45	748.1	29.71	754.5	59.0	15.0	45	ne			2		3	w.		0	0		Prof. Costantino Pitter.
Leghorn	29.57	751.0	29.65	753.2	60.4	15.8	52	ene.	4.3	1.9			7			0	0		Prof. P. Monte.
Rome	29.56	750.7	29.73	755.1	57.9	14.4	61	s.	15.4	6.9			10	ssw.		0.209	5.3		Prof. P. S. Ferrari.
Lecce	29.58	751.3	29.83	757.7	60.4	15.8	50	w.	13.6	6.1			7	sw.		0	0		Prof. C. de Giorgi.
Cosenza	28.93	734.9	29.82	757.5	60.1	15.6	73	wnw.	4.3	1.9			4	nw.		0	0		Prof. D. Conti.
Cagliari	29.59	751.5	29.78	756.4	61.5	16.4	46	nw.			4		8	nw.		0.118	3.0		Prof. A. Pacinotti.
Palermo	29.59	751.5	29.84	757.8	59.0	15.0	55	ne.	6.3	2.8			2			0.189	4.8		Prof. G. Ciaccialatore.
Syracuse	29.72	754.9	29.76	756.0	56.8	13.8	69	ne.	11.2	5.0			7	ne.		0	0		Prof. Vincenzo Gulliano.
Sub-series.																			
Naples, S. R	29.26	743.2	29.78	756.3	62.2	16.8	48	sw.	4.3	1.9			3			0	0		Prof. T. Brioschi.
Stelvio	21.78	553 2			13.3	—10.4	60	ne.			6		6			0	0	misty	Prof. P. F. Denza.
Valdobbia	22.83	554.5			29.3	— 1.5	62	n.			6		8			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Aomori	30.06	763.5	30.09	764.3	47.0	8.3	67	wsw.	2.5	1.1		0	0			0	0	clear	K. Ogawa.
Hakodate	30.06	763.5	30.07	763.8	42.0	5.6	85	n.	10.8	4.8			0			0	0	clear	K. Sasaki.
Hiroshima, I. M. Obs'y	30.08	764.0	30.09	764.3	54.4	12.4	90	nne.	3.1	1.4		0	0			0	0	clear	S. Endo.
Kanazawa	29.94	760.5	30.05	763 3	51.5	10.8	88	e.	10.2	4.6		0	0			0	0		M. Tojima.
Kioto	29.86	758.4	30.04	763 0	51.9	11.1	82	nw.	2.4	1.1		0	0			0	0	cloudy	
Kochi	30.04	763.0	30.06	763.5	62.0	16.7	89	e.	6.2	2.8			10 ks	s		0	0	overcast	S. Takehayashi.
Nagasaki, I. M. Obs'y	29.78	756.4	29.98	761.5	61.2	16.2	92	n.	0.5	0.2		0	0			0.150	3.8	clear	
Niigata	30.04	763.0	30.08	764.0	48.3	9.1	97	n.	1.2	0.5		0	0			0.005	0.1	clear	H. Midzushima.
Nobiru	30.06	763.5	30.07	763.8	48.0	8.9	97	e.	4.2	1.9		0	0			0	0	covered	
Sapporo					40.4	4.7	94	calm	0	0			10			0	0	clear	The Staff.
Tokei Obs'y, Yeddo	30.04	763.0	30.11	764.8	50.3	10.2	89	ene.	3.0	1.3		0	0			0	0	clear	Y. Kuwamuea.
Wakayama	29.99	761.7	30.04	763.0	57.2	14.0	69	nne.	0.3	0.1		0	0						
MAURITIUS.																			
Mauritius Observatory	29.72	754.9	29.91	759 7	80.0	26.7	71	e.	15	6.7		2 c;ck	2 k	n.	ese.	0	0	fair	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.71	602.2	29.93	760.2	66.2	19.0	48	w.				0	2 p			inap.	inap.	foggy	Vicente Fernandez.
Leon	24.40	619.7	30.12	765.0	55.8	13.2	77	ne.			1	6 c	3 k	nne.		inap.	inap.	very cloudy	Prof. M. Leal.
Mazatlan	29.66	753.3	29.92	760.0	63.5	17.5	92	e.	5.3	2.3		7 cs	0	sw.		0	0	foggy	F. Quijano, C. E.
Mexico, Central Obs'y	24.40	619 8	30.12	765.1	55.8	13.2	77	ne.			1	6	3	nne.		inap.	inap.		The Staff.
Morelia	24.23	615.3	30.37	771 3	57.7	14.3	72	se.			4	2	2	s.	s.	0	0	cloudy	M. Tena, M. D.
Pabellon, Aguascallentes	23.94	608.1	29.97	761.3	59.5	15.3	66	nw.			1	6 c	0	sw.		0	0	½ clouded	M. V. de Leon, M. E.
Puebla, Catholic Institute	23.42	594.8	30.19	766.8	52.7	11.5	88	ne.	1.7	0 8		0	0			0	0	clear	Prof. P. Spina.
San Luis Potosi	24.18	614.1	30.27	768.9	66.0	18.9	57	sse.			1	4	1	w.	w.	0	0	½ clouded	G. Barroeta, M. D.
Zacatecas	22.52	572.1	30.12	765.0	58.0	14.5	47					5 c	0			0	0	½ clouded	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.15	765 8	30.15	765.8	48.2	9.0		e.			2					0	0		
Grontingen	30.05	763.3	30.11	764.7	46.4	8.0		nnw.			1					0	0		
Helder	30.13	765.4	30.13	765.4	45.3	7.4		se.			1					0	0		
Hellevoetsluis	30.13	765.3	30.13	765.3	48.2	9.0	46	sse.			1		2			0	0	lightly cl'dy	H. van der Brink.
Utrecht	30.08	764.0	30.13	765.2	50.0	10.0	32	se.			1					0	0		
NORWEGIAN.																			
Bergen	29.95	760.7	30.01	762.3	44.6	7.0	79	sw.	7	3			10			0.031	0.8	raining	
Brono	30.10	764.6	30.14	765.6	25.2	— 3.8	56	ne.	18	8			10			0.579	14.7		
Christiania	29.76	755.8	29.90	759.5	52.7	11.5	50	s.	4	2			7			0	0		
Gjesvær	29.84	758.0	29.87	758.6	19.9	— 6.7		nnw.			6		10						
Lodingen	30.06	763.4	30.10	764.6	23.9	— 4.5	49	nw.			1		1						
PORTUGUESE.																			
Angra, Azores					60.8	16.0	45	s.	9.8	4.4			8			0.256	6.5		Dr. J. A. Sampaio.
Campo Major	29.05	737.8	30.03	762.8	67.6	19.8	47	wnw.	3.8	1.7			4			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.15	765.9	30.24	768.1	66.6	19.2	65	calm					7			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.80	756.8	30.16	766.0	60.6	15.9	57	n.	11.9	5.3			8	wnw.		0	0		The Staff.
Ponta Delgada, Azores	30.02	762.4	30.09	764.2	61.5	16.4	94	s.	23.7	10.6			10			0.193	4.9	raining	
Saint Paul de Loando	29.66	753.3	29.86	758.4	82.2	27.9	72	sw.	1.8	0.8			2	sse.		0.315	8.0		
Serra da Estrella	25.35	643.9	30.09	764.2	49.1	9.5	36	n.	6.3	2.8			4			0	0		
RUSSIAN.																			
Akmolinski	29.07	738.3	30.21	767.3	24.3	— 4.3	70	s.	4	2		0	0			0	0		Major K. Lasarew.
Archangel	29.63	752.5	29.65	753.0	38.7	3.7	85	wnw.	13	6			10			0	0	light clouds	Capt. Seeliwerstow.
Astrakhan	30.26	768.6	30.18	766.5	41.4	5.2	63	ese.	4	2		0	8 k			0	0		Capt. Wisganow.
Barnaul	29.78	756.3	30.30	769.7	29.3	— 1.5	53	e.	4	2			1			0	0		Meteorological Obs'y.
Dorpat	29.85	758.1	30.10	764.4	47.5	8.6	43	sw.	7	3		0	6 k			0	0		Observatory.
Ekaterinburg	29.00	736.7	29.97	761.3	47.1	8.4	39	wsw.	16	7			7			0	0	light clouds	Meteorological Obs'y.
Kasan	29.94	760.5	30.22	767.6	39.4	4.1	42	sw.	2	1			5			0	0		Observatory.
Kertch	30.04	763.0	30.06	763.5	41.2	5.1	63	n.	13	6		0	0			0	0		Lagorio & Sastyrez.
Kieff	29.48	748.9	30.14	765.6	39.2	4.0	48	ne.	4	2		c	7 ks			0	0		Observatory.
Lugan	29.93	760.3	30.14	765.6	39.0	3.9	45	ese.	9	4			10			0	0		Meteorological Obs'y.
Moscow	29.68	753 9	30.17	766.3	43.2	6.2	38	s.	4	2		0	3 ks			0	0		Meteorological Obs'y.
Nikolaiev	30.13	765.3	30.20	767.1	40.6	8.1	54	ne.	13	6		0	0			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor																			Lieut. Iwanow.
Pekin, China	29.97	761.2	30.11	764.8	54.7	12.6	45	se.	9	4		0	5 k			0	0		Physical Observatory
St. Petersburg	30.00	762.1	30.02	762.5	41.7	5.4	55	nw.	13	6		0	1 ks			0	0		Central Physical Obs'y
Ssemipalatinsk	29.74	755.3	30.43	772.9	32.0	0.0	43	calm	0	0		0	0			0	0		Major Lasaren.
Tashkend, Laboratory	28.57	725.6	30.15	765.9	53.4	11.9	61	calm	0	0			10			0.205	5.2	light clouds	Telch, A. M.
Tiflis	28.75	730.3	30.22	767.5	42.4	5.8	63	se.	2	1			10			0	0		Physical Observatory
Vladivostok	30.15	765.9	30.22	767.6	40.6	4.8	46	n.	11	5		0	8 n			c	0		
Warsaw	29.62	752.4	30.06	763.4	41.0	5.0	58	ese.	2	1		0	6 ks						Astronomical Obs'y
Wilna	29.72	754.9	30.15	765.8	44.1	6.7	49	se.	2	1			10			0	0	heavy clouds	Berg, Assistant.
Yeniseisk	29.55	750.5	29.85	758.1	25.7	— 3.5	75	ssw.	49	22			10			0.016	0.4		M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	29.74	755.5	29.85	758.2	63.1	17.3	62	s.	4.5	2.0			1 k			0	0	clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.08	764.0	30.14	765.5	66.4	19.1	41	nw.	2.9	1.3		2	0	n.		0	0	almost clear	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.14	689.3	30.12	765.1	53.2	11.8	40	n.	5.8	2.6			2			0	0	light clouds	Domingo Martin.
Madrid, Royal Obs'y	27.79	705.8	29.98	761.4	64.9	18.3	34	se.	6.9	3.1		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y	29.83	756.9	29.95	760.7	71.6	22.0	44	nne.	6.3	2.8		0	2			0	0	almost clear	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.20	741.6	30.10	764.4	58.5	14.7	66	calm	0	0			6			0.157	4.0	cloudy	R. Gil Vallanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I	29.87	758.7	29.94	760.4	72.8	22.7	78	ese.	3.1	1.4		3 c;cs	0	wsw.		0	0	fair	Benito Vines, S. J.
Manilla, Philippine Islands	29.88	758.9	29.94	760.4	79.1	26.2	87	e.	0	0			10 n		e.	0.780	19.8	threatening	F. Faura, S. J.
San Fernando, Naval Obs'y	30.03	762.7	30.13	765.2	62.8	17.1	71	W.	5.2	2.3		0	3		W.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	29.70	754 4	29.99	761.7	73.0	22.8	82	calm	0	0		1 s	2 k	se.	se.	0	0	clear	Manuel Maeu.
Tuguegarao, Philippine Id's	29.79	756.7	29.93	760.2	82.5	28.1	67	s.	6.0	2.7		0	1 s		sw.	0	0	clear	José L. Yrastorza.
SWEDISH																			
Haparanda	29.87	758.8	29.91	759.8	25.9	— 3.4	60	n.			4		10			0.126	3.2		
Umea	29.86	758.4	29.91	759.7	28.8	— 1.8	96	ne.			6		10			0.047	1.2		
Hernosand	29.82	757.3	29.87	758.6	38.3	3.5	82	n.			4		10			0	0		
Stockholm	29.82	757.3	29.99	761.8	49.6	9.8	33	sw.			6		8			0	0		
Wisby	30.06	763.5	30.12	765.0	40.3	4.6	62	w.			2		0			0	0		
Sub-series.																			
Upsala	29.85	758.2	29.94	760.4	49.1	9.5	47	sw.	16.8	7.5			8		w.	0.189	4.8		S. G. Fineman.
SWISS.																			
Geneva	28.55	725.2	30.01	762.2	44.4	6.9	41	nne.			6					0	0	cloudy	The Observatory

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
TURKISH.																			
Constantinople	.....	.....	29.97	761.3	49.1	9.5	59	n.	14	6.5	.....	.....	10	.....	n.	0	0	.....	The Observatory.
Valona	.....	.....	29.87	758.8	60.1	15.6	.....	w.	.....	.....	1	.....	2	.....	.....	0	0	slightly cl'dy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	29.87	758.8	67.8	19.9	81	nw.	.....	.....	1	10 cs	0	nw.	.....	0	0	foggy	Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	29.75	755.6	29.83	757.7	34	1.1	60	w.	12	5.4	.....	9 cs	0	.....	.....	0	0	cloudy	J. O. Barnes.
Alpena, Michigan	29.47	748.5	30.16	766.1	17	— 8.3	83	ne.	13	5.8	.....	.....	10 n	.....	.....	inap.	inap.	light snow	Jas. J. Fitzgerald.
Atlanta, Georgia	28.57	725.7	29.77	756.1	66.5	19.2	87	sw.	10	4.5	.....	1 c	0	calm	.....	0	0	clear	H. Hall.
Atlantic City, New Jersey	29.67	753.6	29.68	753.9	39	3.9	89	ne.	20	8.9	.....	.....	10 n	.....	n.	0.11	2.8	light rain	Jas. M. Watson.
Augusta, Georgia	29.54	750.3	29.73	755.1	67	19.4	90	calm	0	0	.....	2 c	hz.	.....	.....	c.03	0.8	clear	John Healy.
Baltimore, Maryland	29.68	753.9	29.72	754.9	42	5.6	83	ne.	12	5.4	.....	.....	10 s	.....	ne.	0.45	11.4	cloudy	Robert Seyboth.
Barnegat, New Jersey	29.69	754.1	29.71	754.6	36.2	2.3	96	ne.	22	9.8	.....	.....	10 n	.....	ne.	0.09	2.3	light rain	Chas. F. Merritt.
Bismarck, Dakota	28.42	721.9	30.30	769.6	28	— 2.2	88	se.	12	5.4	.....	4 c	0	.....	.....	0.06	1.5	fair	Cyrus Cramer.
Boise City, Idaho	26.85	682.0	29.69	754.1	34	1.1	89	n.	3	1.3	.....	.....	10 n	.....	calm	0.44	11.2	light rain	B. E. Light.
Boston, Massachusetts	29.62	752.3	29.78	756.4	29.0	— 1.7	96	n.	13	5.8	.....	.....	10 n	.....	.....	0.11	2.8	light snow	O. B. Cole.
Brownsville, Texas	29.78	756.4	29.83	757.7	77	25.0	90	se.	4	1.8	.....	0	9 s	.....	se.	0	0	cloudy	J. C. Galloway.
Buffalo, New York	29.14	740.1	29.91	759.7	24.5	— 4.2	68	n.	8	3.6	.....	.....	10 n	.....	.....	inap.	inap.	light snow	Wm. Finn.
Burlington, Vermont	29.58	751.3	29.88	758.9	22.0	— 5.6	58	n.	13	5.8	.....	0	2 s	.....	n.	0	0	clear	G. C. Schaeffer.
Cairo, Illinois	29.41	747.0	29.82	757.4	60.6	15.9	64	nw.	14	6.3	.....	2 k	2 ks	nw.	nw.	0	0	fair	W. H. Ray.
Campo, California	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. H. Clendenon.
Camp Thomas, Arizona	27.05	687.1	29.78	756.4	40.5	4.7	61	calm	.....	.....	0	0	0	.....	.....	0	0	clear	J. T. Fitzgerald.
Cape Henry, Virginia	29.64	752.8	29.66	753.4	50	10.0	93	ne.	8	3.6	.....	.....	10 s	.....	.....	0.02	0.5	cloudy	J. E. Lanouette.
Cape May, New Jersey	29.66	753.4	29.69	754.1	45	7.2	93	ne.	8	3.6	.....	.....	10 s	.....	ne.	0.25	6.3	cloudy	W. Bolten.
Cedar Keys, Florida	29.85	758.2	29.87	758.7	74	23.3	85	w.	13	5.8	.....	0	9 ks	.....	w.	0.01	0.3	cloudy	F. W. Mixer.
Champaign, Illinois	29.04	737.6	29.88	758.9	33.5	0.8	83	ne.	37	16.5	.....	.....	10 s	.....	ne.	0.04	1.0	cloudy	L. A. Welsh.
Charleston, S. Carolina	29.64	752.8	29.70	754.4	68	20.0	90	w.	8	3.6	.....	5 c	0	w.	.....	0.36	9.1	fair	J. H. Smith.
Charlotte, N. Carolina	28.87	733.3	29.73	755.1	60.0	15.6	87	s.	5	2.2	.....	0	sk.	.....	.....	0.60	15.2	clear	D. O. Donoghue.
Chattanooga, Tennessee	28.89	733.8	29.72	754.9	64.5	18.1	69	sw.	6	2.7	.....	0	0	.....	.....	0.06	1.5	clear	B. L. Goulding.
Cheyenne, Wyoming	23.89	606.8	29.89	759.2	32.2	0.1	92	s.	4	1.8	.....	.....	fg.	.....	.....	0	0	dense fog	E. McGovern.
Chicago, Illinois	29.28	743.7	30.01	762.2	34.0	1.1	68	ne.	20	8.9	.....	6 k	0	ne.	.....	0.01	0.3	fair	J. Mitchell.
Chincoteague, Virginia	29.64	752.8	29.66	753.4	44	6.7	93	ne.	11	4.9	.....	.....	10 s	.....	ne.	0.08	2.0	cloudy	V. P. Temple.
Cincinnati, Ohio	29.11	739.4	29.78	756.4	42.3	5.7	78	ne.	9	4.0	.....	.....	10 s	.....	e.	0.29	7.4	cloudy	R. B. Watkins.
Cleveland, Ohio	29.12	739.6	29.88	758.9	33.6	0.9	84	ne.	15	6.7	.....	.....	10 s	.....	ne.	0.03	0.8	cloudy	J. B. Newlin.
Coleman City, Texas	28.05	712.5	29.87	758.7	57	13.9	93	w.	2	0.9	.....	0	0	.....	.....	0	0	clear	L. Dorman.
Columbus, Ohio	28.92	734.6	29.79	756.7	34	1.1	78	ne.	10	4.5	.....	.....	10 n	.....	.....	0.67	17.0	light snow	D. Cuthbertson.
Concho, Texas	27.89	708.4	29.83	757.7	63	17.2	90	w.	4	1.8	.....	0	0	.....	.....	0	0	clear	W. W. McConihe.
Davenport, Iowa	29.35	745.5	30.02	762.5	34	1.1	78	ne.	15	6.7	.....	.....	10 s	.....	ne.	0.24	6.1	cloudy	R. R. Martin.
Dayton, Washington T'y	28.02	711.7	29.77	756.1	38.8	3.8	63	sw.	5	2.2	.....	.....	10 n	.....	sw.	0.43	10.9	heavy rain	H. Clifford.
Deadwood, Dakota	25.26	641.6	29.94	760.5	30	— 1.1	92	s.	6	2.7	.....	0	4 k	.....	s.	0	0	fair	G. W. Scott.
Decatur, Texas	.....	.....	.....	.....	58	14.4	64	n.	10	4.5	.....	0	0	.....	.....	0	0	clear	D. J. Carr.
Delaware Breakwater, Del.	29.65	753.1	29.67	753.6	45	7.2	93	ne.	13	5.8	.....	.....	10 ks	.....	ne.	0.22	5.6	cloudy	A. Schneider.
Denison, Texas	29.07	738.4	29.87	758.7	56.0	13.3	69	n.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. McGlone.
Denver, Colorado	24.60	624.8	29.87	758.7	36.0	2.2	82	nw.	8	3.6	.....	.....	10 s	.....	nw.	0	0	cloudy	F. M. Neal.
Des Moines, Iowa	29.19	741.4	30.12	765.0	35	1.7	69	ne.	14	6.3	.....	.....	10 n	.....	ne.	0.01	0.3	cloudy	F. W. Conrad.
Detroit, Michigan	29.25	742.9	29.98	761.5	27.0	— 2.8	77	n.	22	9.8	.....	.....	10 k	.....	ne.	0	0	cloudy	O. F. R. Wappenhans.
Dodge City, Kansas	27.39	695.7	30.03	762.7	37	2.8	100	ne.	14	6.3	.....	.....	fg.	.....	.....	0	0	dense fog	E. A. Thomas.
Dubuque, Iowa	29.39	746.5	30.12	765.0	29.3	— 1.5	70	ne.	14	6.3	.....	.....	10 ks	.....	ne.	0.08	2.0	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.69	754.1	30.41	772.4	21	— 6.1	70	ne.	12	5.4	.....	0	6 s	.....	ne.	0	0	fair	N. B. Conger.
Eagle Pass, Texas	29.04	737.6	29.85	758.2	70.2	21.2	90	se.	1	0.4	.....	.....	10 s	.....	.....	0	0	cloudy	F. Belford.
Eagle Rock, Idaho	24.88	631.9	29.60	751.8	38	3.3	76	sw.	4	1.8	.....	0	6 s	.....	sw.	0	0	fair	J. M. Clifford.
Eastport, Maine	29.71	754.6	29.78	756.4	27	— 2.8	64	nw.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. H. Melton.
El Paso, Texas	26.23	666.2	29.97	761.2	44	6.7	63	ne.	5	2.2	.....	0	0	.....	.....	0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.14	740.1	29.89	759.2	30	— 1.1	78	ne.	22	9.8	.....	.....	10 ks	.....	ne.	0.01	0.3	cloudy	R. H. Paxton.
Escanaba, Michigan	29.57	751.1	30.26	768.6	20	— 6.7	91	n.	20	8.9	.....	.....	10 s	.....	n.	inap.	inap.	cloudy	C. Dill.
Florence, Arizona	28.32	719.3	29.82	757.4	50.7	10.4	45	s.	3	1.3	.....	0	9 s	.....	sw.	0	0	cloudy	R. R. Herman.
Fort Apache, Arizona	24.88	631.9	29.80	756.9	36	2.2	66	ne.	2	0.9	.....	0	6 s	.....	calm	0	0	fair	W. C. Barnes.
Fort Assinnaboine, Montana	27.02	686.3	29.92	760.0	32	0.0	81	ne.	19	8.5	.....	0	7 s	.....	ne.	0	0	fair	B. O. Lenoir.
Fort Bennett, Dakota	28.58	725.9	30.22	767.6	33	0.6	81	e.	12	5.4	.....	.....	10 s	.....	.....	0.02	0.5	cloudy	T. Gibson.
Fort Benton, Montana	27.00	685.8	29.86	758.4	35	1.7	72	e.	24	10.7	.....	.....	10 ks	.....	e.	0	0	cloudy	S. Wheaton.
Fort Buford, Dakota	28.18	715.8	30.25	768.3	27	— 2.8	77	e.	17	7.6	.....	7 cs	0	e.	.....	0	0	fair	A. H. Bell.
Fort Custer, Montana	26.60	675.6	29.78	756.4	38	3.3	73	se.	16	7.2	.....	0	8 s	.....	calm	0	0	cloudy	V. Yerge.
Fort Davis, Texas	25.05	636.3	29.84	757.9	46	7.8	34	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. Williams.
Fort Elliott, Texas	27.13	689.1	29.91	759.7	41	5.0	36	n.	12	5.4	.....	0	0	.....	.....	0	0	clear	W. J. Cundall.
Fort Gibson, Indian T'y	29.36	745.7	29.94	760.5	50.0	10.0	77	n.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. B. Campbell.
Fort Grant, Arizona	25.10	637.5	29.83	757.7	49	9.4	16	e.	4	1.8	.....	0	0	.....	.....	0	0	clear	T. J. Macgowan.
Fort Griffin, Texas	28.57	725.7	29.87	758.7	54	12.2	74	calm	0	0	.....	0	0	.....	.....	0	0	clear	G. H. Hayne.
Fort Keogh, Montana	27.42	696.5	29.96	761.0	35	1.7	71	se.	19	8.5	.....	.....	10 s	.....	se.	0	0	cloudy	W. B. Stockman.
Fort Macon, North Carolina	29.63	752.6	29.64	752.8	62	16.7	93	nw.	10	4.5	.....	0	7 ks	.....	nw.	0	0	fair	L. Leonardy.
Fort McKavett, Texas	27.64	702.0	29.90	759.4	67	19.4	84	s.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. E. Thatcher.
Fort Missoula, Montana	26.34	669.0	29.65	753.1	40	4.4	92	n.	4	1.8	.....	.....	10 ks	.....	.....	0	0	cloudy	J. H. Jones.
Fort St. Michaels, Alaska	29.68	753.9	29.71	754.6	24	— 4.4	100	sw.	6	2.7	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	A. P. Leavitt.
Fort Shaw, Montana	26.14	663.9	29.81	757.2	34	1.1	88	calm	0	0	.....	.....	10 s	.....	.....	0.01	0.3	cloudy	A. L. Mathews.
Fort Sill, Indian Territory	28.67	728.2	29.91	759.7	49.5	9.7	78	n.	15	6.7	.....	0	0	.....	.....	0	0	clear	T. Cleary.
Fort Stevenson, Dakota	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. Burrows
Fort Verde, Arizona	.....	.....	.....	.....	54.3	12.4	45	s.	.....	2	8 cs	0	w.	.....	.....	0	0	cloudy	D. Brooks.
Fort Washakie, Wyoming	24.15	613.4	.....	.....	34.0	1.1	92	nw.	6	2.7	.....	.....	10 ks	.....	nw.	0	0	cloudy	T. M. Ambler.
Fredericksburg, Texas	28.10	713.7	29.82	757.4	69	20.6	97	calm	0	0	.....	10 k	0	sw.	.....	0	0	cloudy	H. S. Miles.
Galveston, Texas	29.83	757.7	29.87	758.7	73	22.8	90	sw.	3	1.3	.....	.....	10 ks	.....	sw.	0	0	cloudy	E. O'C. MacInerney.
Grand Haven, Michigan	29.38	746.2	30.07	763.8	28.5	— 1.9	66	n.	18	8.0	.....	0	0	.....	.....	0.18	4.6	clear	W. A. Reid.
Hatteras, North Carolina	29.63	752.6	29.65	753.1	57	13.9	93	n.	15	6.7	.....	.....	10 s	.....	ne.	0.05	1.3	cloudy	R. M. Crawford.
Helena, Montana	25.49	647.4	29.75	755.6	36	2.2	82	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	N. O. Smith.
Henrietta, Texas	28.90	734.0	29.93	760.2	51.0	10.6	86	n.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. W. Byram.
Huron, Dakota	28.80	731.5	30.26	768.6	30.2	— 1.0	78	ne.	13	5.8	.....	.....	10 s	.....	.....	0.30	7.6	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.01	736.8	29.83	757.7	35	1.7	85	n.	9	4.0	.....	.....	10 n	.....	calm	0.30	7.6	light snow	O. Schutze
Indianola, Texas	29.83	757.7	29.86	758.4	73.6	23.1	90	sw.	4	1.8	.....	5 k	5 ks	se.	se.	0	0	cloudy	I. A. Reed.
Jacksboro, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. P. Sherry.
Jacksonville, Florida	29.77	756.1	29.81	757.2	75	23.9	76	sw.	6	2.7	.....	0	0	.....	.....	0	0	clear	J. W. Smith.
Keokuk, Iowa	29.32	744.7	29.99	761.7	36.0	2.2	89	ne.	12	5.4	.....	.....	10 s	.....	ne.	0.01	0.3	cloudy	F. Z. Gosewisch
Key West, Florida	29.94	760.5	29.96	761.0	73.0	22.8	76	calm	0	0	.....	8 cs	2k;hz	.....	sw.	0	0	cloudy	L. M. Melbourne.
Kittyhawk, North Carolina	29.64	752.8	29.66	753.4	51.5	10.8	96	n.	5	2.2	.....	hz.	0	.....	.....	0.02	0.5	dense haze	E. A. Beals.
Knoxville, Tennessee	28.64	727.4	29.68	753.9	59.6	15.3	80	sw.	8	3.6	.....	0	0	.....	.....	0.45	11.4	clear	J. A. Cody.
La Crosse, Wisconsin	29.40	746.7	30.20	767.1	28	— 2.2	64	ne.	12	5.4	.....	0	0	.....	.....	0	0	clear	S. C. Emery.
La Mesilla, New Mexico	25.98	659.9	29.86	758.4	38.3	3.5	46	calm	0	0	.....	0	0	.....	.....	0	0	clear	N. D. Lane.
Leavenworth, Kansas	29.13	739.9	30.04	763.0	43	6.1	74	n.	14	6.3	.....	.....	10 s	.....	n.	0	0	cloudy	A. W. Browne.
Lewiston, Idaho	28.85	732.8	29.70	754.4	47	8.3	100	w	10	4.5	.....	.....	10 s	.....	w.	0.06	1.5	light rain	W. Blake.
Little Rock, Arkansas	29.53	750.0	29.85	758.2	60	15.6	70	nw.	2	0.9	.....	0	0	.....	.....	0	0	clear	W. U. Simmons.
Los Angeles, California	29.55	750.6	29.95	760.7	48.1	8.9	77	calm	0	0	.....	5 c	0	sw.	.....	0.48	12.2	fair	E. F. Kubel.
Louisville, Kentucky	29.13	739.9	29.70	754.4	45	7.2	76	n.	14	6.3	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	H. C. Smyth.
Lynchburg, Virginia	28.92	734.6	29.62	752.3	54.8	12.7	74	e.	1	0.4	.....	3 ck	0	nw.	.....	0.15	3.8	clear	W. R. Bushby.
Madison, Wisconsin	29.09	738.9	30.13	765.3	26	— 3.3	76	ne.	25	11.2	.....	.....	10 s	.....	ne.	0.04	1.0	cloudy	C. A. Shaw.
Marquette, Michigan	29.56	750.8	30.31	769.9	21	— 6.1	84	ne.	12	5.4	.....	.....	10 n	.....	ne.	0.03	0.8	light snow	J. Gilligan.
Mason, Texas	28.20	716.3	29.85	758.2	66.6	19.2	82	s.	1	0.4	.....	0	1 s	.....	calm	0	0	clear	P. M. Wilson.
Memphis, Tennessee	29.47	748.5	29.81	757.2	61	16.1	72	calm	0	0	.....	.....	0	.....	.....	0	0	clear	D. T. Flannery.
Milwaukee, Wisconsin	29.32	744.7	30.09	764.3	28	— 2.2	88	n.	27	12.1	.....	.....	10 s	.....	n.	inap.	inap.	cloudy	W. Line.

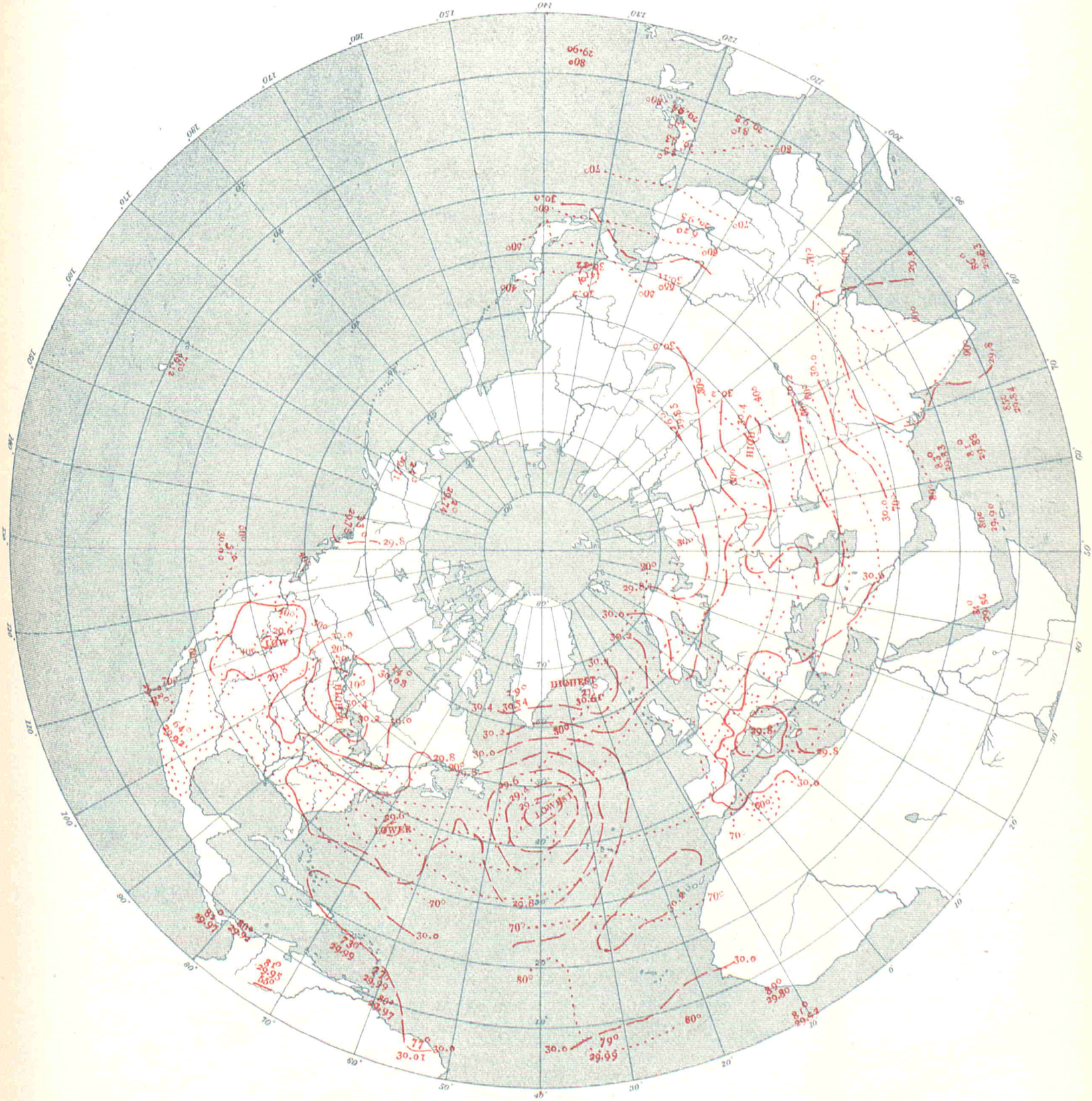
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–01	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Mobile, Alabama	29.80	756.9	29.84	757.9	72	22.2	90	sw.	1	0.4	.....	1 c	0	.....	.....	0	0	clear	J. D. Paxton.
Montgomery, Alabama	29.57	751.1	29.81	757.2	67.6	19.8	91	sw.	5	2.2	.....	2 cs	1 k	.....	w.	0.03	0.8	clear	J. B. McLaughlin.
Moorhead, Minnesota	29.35	745.5	30.38	771.6	24	— 4.4	88	ne.	8	3.6	.....	0	0	.....	.....	0.14	3.6	clear	H. Bessant.
Morgantown, W. Virginia	28.72	729.5	29.76	755.9	38.5	3.6	91	calm	0	0	.....	.....	10 n	.....	.....	0.53	13.5	light snow	G. C. Lewis.
Mt. Washington, N. H.	23.27	591.0	29.68	753.9	5.0	—15.0	79	n.	10	4.5	.....	0	1 s	.....	n.	0	0	clear	J. G. Linsley.
Nashville, Tennessee	29.18	741.2	29.72	754.9	62.0	16.7	56	w.	8	3.6	.....	0	0	.....	.....	0.04	1.0	clear	L. A. Jesunofsky.
New Haven, Connecticut	29.66	753.4	29.78	756.4	28	— 2.2	88	n.	10	4.5	.....	.....	10 n	.....	n.	0.09	2.3	light snow	J. H. Sherman.
New London, Connecticut	29.72	754.9	29.77	756.1	31	— 0.6	100	n.	11	4.9	.....	.....	10 n	.....	n.	0.14	3.6	light snow	J. G. Lynch.
New Orleans, Louisiana	29.80	756.9	29.86	758.4	73.5	23.1	86	w.	6	2.7	.....	0	4 s	.....	w.	0	0	fair	S. Dunne.
Newport, Rhode Island	29.68	753.9	29.73	755.1	32.9	0.5	92	n.	8	3.6	.....	.....	10 n	.....	n.	0.18	4.6	light snow	W. McGillivray.
New River, N. Carolina	.....	.....	.....	.....	62	16.7	88	nw.	.....	.....	1	0	3 s	.....	w.	0.07	1.8	clear	C. C. Corbin.
New Shoreham, Rhode I'd.	29.68	753.9	29.71	754.6	34.0	1.1	78	ne.	32	14.3	.....	.....	10 n	.....	ne.	0.02	0.5	light snow	W. Davis.
New York, New York	29.59	751.6	29.77	756.1	31	— 0.6	88	n.	10	4.5	.....	.....	10 s	.....	n.	0.33	8.4	cloudy	E. B. Garriott.
Norfolk, Virginia	29.63	752.6	29.66	753.4	55	12.8	86	ne.	8	3.6	.....	.....	10 ks	.....	n.	0	0	cloudy	J. T. Elker.
North Platte, Nebraska	27.13	689.1	30.09	764.3	34.1	1.2	82	ne.	8	3.6	.....	0	8 n	.....	.....	inap.	inap.	light snow	E. F. Brady.
Olympia, Washington T'y	29.92	760.0	29.96	761.0	36.0	2.2	89	s.	1	0.4	.....	4 k	0	sw.	.....	0.07	1.8	light rain	J. Dascomb.
Omaha, Nebraska	28.94	735.1	30.15	765.8	36.8	2.7	79	ne.	14	6.3	.....	.....	10 s	.....	ne.	0	0	cloudy	A. Pollak.
Ooglaamie, Pt. Barrow, Alas.	29.72	754.9	29.74	755.4	2.0	—16.7	89	ssw.	3	1.3	.....	hz.	fg.	.....	.....	0.07	1.8	foggy	P. H. Ray.
Oswego, New York	29.56	750.8	29.90	759.4	25.0	— 3.9	64	ne.	20	8.9	.....	3 k	0	ne.	.....	0	0	clear	S. W. Beall.
Palestine, Texas	29.32	744.7	29.88	758.9	68.0	20.0	93	sw.	8	3.6	.....	.....	fg.	.....	.....	0	0	dense fog	L. M. Pindell.
Pensacola, Florida	29.81	757.2	29.84	757.9	72.3	22.4	90	w.	6	2.7	.....	2 c	1 k	.....	w.	0	0	clear	M. McGauran.
Philadelphia, Pa.	29.64	752.8	29.74	755.4	35	1.7	79	ne.	20	8.9	.....	.....	10 n	.....	ne.	0.13	3.3	light rain	T. F. Townsend.
Pike's Peak, Colorado	17.57	446.3	29.85	758.2	13.5	—10.3	64	sw.	36	16.1	.....	0	4 s	.....	.....	0	0	fair	L. M. Dey.
Pioche, Nevada	23.71	602.2	29.70	754.4	30	— 1.1	70	s.	9	4.0	.....	.....	10 ks	.....	s.	0.02	0.5	cloudy	C. N. Kitchel.
Pittsburg, Pennsylvania	28.95	735.3	29.78	756.4	36.8	2.7	69	ne.	9	4.0	.....	.....	10 s	.....	ne.	0.56	14.2	cloudy	J. H. Bryce.
Port Eads, Louisiana	29.88	758.9	29.89	759.2	73.1	22.8	90	sw.	8	3.6	.....	0	1 k	.....	sw.	0	0	clear	H. G. Christian.
Port Huron, Michigan	29.29	744.0	29.99	761.7	22.5	— 5.3	96	n.	24	10.7	.....	.....	10 n	.....	.....	inap.	inap.	light snow	W. O. Bailey.
Portland, Maine	29.74	755.4	29.79	756.7	32.0	0.0	60	ne.	11	4.9	.....	4 ck	0	w.	.....	0	0	fair	D. C. Murphy.
Portland, Oregon	29.90	759.4	29.97	761.2	36.0	2.2	89	se.	1	0.4	.....	4 k	0	nw.	.....	0	0	fair	M. L. Hearne.
Portsmouth, N. Carolina	.....	.....	.....	.....	58	14.4	70	n.	12	5.4	.....	3 k	6 ks	ne.	n.	0	0	cloudy	F. P. Chaffee.
Prescott, Arizona	24.50	622.3	29.72	754.9	43	6.1	37	s.	24	10.7	.....	0	5 s	.....	s.	0	0	fair	J. Mc N. Wright.
Provincetown, Mass.	29.70	754.4	29.73	755.1	30.5	— 0.8	88	ne.	18	8.0	.....	.....	10 n	.....	.....	0.16	4.1	light snow	P. T. Jenkins.
Punta Rassa, Florida	29.89	759.2	29.90	759.4	75	23.9	82	w.	13	5.8	.....	2 c	3 ks	w.	w.	0	0	fair	W. J. Evans.
Red Bluff, California	29.51	749.5	29.88	758.9	44.1	6.7	93	n.	3	1.3	.....	.....	10 s	.....	calm	0.03	0.8	cloudy	J. M. Frantz.
Rio Grande City, Texas	29.60	751.8	29.84	757.9	75	23.9	90	se.	4	1.8	.....	.....	10 s	.....	se.	0	0	cloudy	W. H. Taylor.
Rochester, New York	29.22	742.2	29.91	759.7	23	— 5.0	73	ne.	18	8.0	.....	.....	10 n	.....	ne.	inap.	inap.	light snow	A. T. Sherwood.
Roseburg, Oregon	29.43	747.5	29.99	761.7	38	3.3	89	nw.	3	1.3	.....	.....	10 n	.....	.....	0.23	5.8	light rain	J. J. Naury.
Sacramento, California	29.84	757.9	29.92	760.0	46.0	7.8	83	se.	2	0.9	.....	.....	9 s	.....	.....	0.28	7.1	cloudy	J. A. Barwick.
St. Louis, Missouri	29.24	742.7	29.84	757.9	48.9	9.4	86	nw.	18	8.0	.....	.....	10 s	.....	nw.	0	0	cloudy	J. H. Webber.
St. Paul, Minnesota	29.38	746.2	30.27	768.8	27.5	— 2.5	76	n.	8	3.6	.....	0	0	.....	.....	0.16	4.1	clear	P. F. Lyons.
St. Vincent, Minnesota	29.58	751.3	30.49	774.4	17	— 8.3	76	ne.	7	3.1	.....	0	0	.....	.....	0	0	clear	G. Kingsbury.
Salt Lake City, Utah	25.22	640.6	29.59	751.6	47	8.3	52	se.	7	3.1	.....	.....	10 ks	.....	sw.	inap.	inap.	threatening	J. Craig.
San Antonio, Texas	29.15	740.4	29.85	758.2	73.0	22.8	97	calm	0	0	.....	.....	10 s	.....	calm	0	0	cloudy	E. Lane.
San Diego, California	29.87	758.7	29.94	760.5	53.6	12.0	84	sw.	6	2.7	.....	5 k	5 s	sw.	sw.	0.04	1.0	cloudy	A. C. Dobbins.
Sandusky, Ohio	29.20	741.7	29.90	759.4	32	0.0	78	n.	38	17.0	.....	.....	10 s	.....	.....	0.34	8.6	cloudy	M. H. Perry.
Sandy Hook, New Jersey	29.73	755.1	29.77	756.1	32.0	0.0	88	n.	22	9.8	.....	.....	10 s	.....	n.	0.34	8.6	cloudy	B. A. Blundon.
San Francisco, California	29.87	758.7	29.94	760.5	45	7.2	80	nw.	7	3.1	.....	0	1 s	.....	w.	0.42	10.7	clear	N. Gorom.
Santa Fé, New Mexico	23.08	586.2	29.84	757.9	45.6	7.6	17	se.	7	3.1	.....	10 k	0	.....	.....	0	0	cloudy	H. U. Jones.
Savannah, Georgia	29.67	753.6	29.76	755.9	74	23.3	71	w.	11	4.9	.....	3 c	0	.....	.....	0	0	clear	H. W. Ford.
Shreveport, Louisiana	29.60	751.8	29.84	757.9	66	18.9	78	sw.	1	0.4	.....	0	0	.....	.....	0	0	clear	E. N. Meekins.
Silver City, New Mexico	24.12	612.6	29.80	756.9	34	1.1	43	w.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. B. Wallace.
Sitka, Alaska	29.71	754.6	29.78	756.4	33	0.6	88	nw.	12	5.4	.....	3 ck	5 k	nw.	nw.	0	0	cloudy	J. J. McLean.
Smithville, North Carolina	29.63	752.6	29.67	753.6	64	17.8	93	nw.	4	1.8	.....	0	0	.....	.....	0.35	8.9	clear	O. Parker.
Spokane Falls, Wash. Ter.	27.71	703.8	29.77	756.1	40	4.4	96	calm	0	0	.....	.....	10 s	.....	.....	0.06	1.5	cloudy	D. Moore.
Springfield, Illinois	29.21	741.9	29.91	759.7	36	2.2	89	ne.	26	11.6	.....	.....	10 s	.....	ne.	0.13	3.3	cloudy	T. B. Jennings.
Springfield, Massachusetts	29.67	753.6	29.80	756.9	29.7	— 1.3	77	n.	8	3.6	.....	.....	10 n	.....	.....	0.02	0.5	light snow	T. S. Outram.
Springfield, Mo.	28.50	723.9	30.02	762.5	45	7.2	74	n	11	4.9	.....	0	9 s; k	.....	n.	0	0	cloudy	J. B. Marbury.
Stockton, Texas	26.84	681.7	29.87	758.7	45.5	7.5	71	sw.	5	2.2	.....	0	0	.....	.....	0	0	clear	J. O'Dowd.
Thatcher's Island, Mass.	29.72	754.9	29.77	756.1	30.3	— 0.9	94	ne.	22	9.8	.....	.....	10 n	.....	.....	0.13	3.3	light snow	G. Liebmann.
Toledo, Ohio	29.22	742.2	29.93	760.2	28	— 2.2	77	n.	18	8.0	.....	.....	10 s	.....	ne.	0.27	6.9	cloudy	A. Buell.
Tucson, Arizona	27.39	695.7	29.78	756.4	49	9.4	47	se.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.48	748.8	29.85	758.2	44.0	6.7	65	w.	12	5.4	.....	.....	10 s	.....	n.	0.09	2.3	cloudy	J. Daly.
Uvalde, Texas	28.86	733.0	29.83	757.7	73	22.8	90	se.	3	1.3	.....	.....	10 s	.....	se.	0	0	cloudy	E. C. Imlay.
Vicksburg, Mississippi	29.58	751.3	29.84	757.9	69	20.6	90	sw.	2	0.9	.....	4 k	0	sw.	.....	0	0	fair	T. J. Kenan.
Visalia, California	29.48	748.8	29.85	758.2	46.1	7.8	89	s.	4	1.8	.....	.....	10 n	.....	s.	0.19	4.8	light rain	J. T. Cochran.
Washington, D. C.	29.60	751.8	29.72	754.9	43	6.1	100	n.	8	3.6	.....	.....	10 n	.....	ne.	0.29	7.4	light rain	B. M. Purssell.
West Las Animas, Colorado	25.96	659.4	29.92	760.0	43	6.1	83	se.	26	11.6	.....	0	9 s	.....	e.	0	0	cloudy	J. Grover.
Wickenburg, Arizona	.....	.....	.....	.....	46.5	8.1	86	calm	.....	.....	0	7 c	0	s.	.....	0	0	fair	H. A. Kremp.
Williamsport, Pa.	29.20	741.7	29.80	756.9	33	0.6	68	ne.	5	2.2	.....	.....	10 ks	.....	w.	0.50	12.7	cloudy	B. F. Hough.
Wilmington, N. Carolina	29.61	752.1	29.67	753.6	63	17.2	93	calm	0	0	.....	0	5 k; fg	.....	nw.	0.51	13.0	fair	E. W. McGann.
Winnemucca, Nevada	25.32	643.1	29.72	754.9	31	— 0.6	80	sw.	8	3.6	.....	0	5 ks	.....	sw.	0.09	2.3	fair	J. R. Williams.
Yankton, Dakota	28.85	732.8	30.19	766.8	32	0.0	78	nw.	11	4.9	.....	.....	10 s	.....	.....	0.25	6.3	cloudy	J. H. Atfield.
Yuma, Arizona	29.69	754.1	29.84	757.9	54.8	12.7	49	nw.	6	2.7	.....	3 cs	0	.....	.....	0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.00	558.8	.....	.....	55.0	12.8	77	calm	0	0	.....	0	7 ks; s	.....	nw.	0.28	7.1	fair	Joaquin Gomez.
Bridgetown, Barbados, W. I.	29.96	761.0	29.97	761.2	80	26.7	82	e.	.....	.....	.....	5 k	5 ks	e.	e.	0	0	fair	J. A. Racker.
Buenaventura, U. S. C.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. I. Plume.
Guadeloupe, W. I.	29.87	758.7	29.89	759.2	77	25.0	87	s.	.....	.....	.....	0	3 ks	.....	.....	0	0	clear	B. Bigar.
Havana, Cuba, W. I.	29.94	760.5	29.99	761.7	75	23.9	85	calm	0	0	.....	8 cs	1 ks	calm	calm	0	0	cloudy	A. Van Caneghem.
Kingston, Jamaica, W. I.	29.97	761.2	29.98	761.5	73.0	22.8	88	calm	0	0	.....	0	7 s	.....	e.	0.04	1.0	.....	Robert Johnston.
Navassa, W. I.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	F. M. Everett.
Paramaribo, S. A.	30.01	762.2	30.01	762.2	77	25.0	91	e.	.....	.....	2	5 k	8 ps	e.	.....	0.780	19.8	.....	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.49	749.0	29.95	760.7	81	27.2	85	calm	.....	.....	0	.....	10 s	.....	calm	2.03	51.6	cloudy	Miss Flora A. Nichols.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	.....	.....	94	ne.	.....	.....	2	0	3 ks	.....	ne.	0	0	fair	Earl Flint.
Santiago de Cuba, W. I.	29.94	760.5	29.97	761.2	77	25.0	69	calm	0	0	.....	.....	9 n	.....	s.	0	0	cloudy	Robert Mason.
York Factory, B. A.	30.02	762.5	30.08	764.0	14.0	—10.0	91	s.	11	4.9	.....	3 k	2 s	s.	s.	0	0	fair	W. Wood.

STATIONS AND VESSELS.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
British Naval.																		
H. M. S. Agincourt, N. 38° 42′, W. 9° 45′	30.21	767.3	62	16.7	88	nnw.			3		4	nnw.				3	wnw.	d. clouds.
H. M. S. Alert, Mahi, Seychelles Islands	29.86	758.4	83.5	28.6	81	calm			0		8							showery.
H. M. S. Alexandra, Malta, Mediterranean	29.80	756.9	69.8	21.0	37	nne.			2–4		9	nnw.						squally.
H. M. S. Bacchante, Jaffa, Palestine	29.86	758.4	71	21.7	75	nnw.			1		10							misty.
H. M. S. Cleopatra, N. 8° 38′ E. 67° 50′	29.84	757.9	84.5	29.2	79	ne.			1		4	calm						d. clouds.
H. M. S. Comus, Pelew Island, Oceania	29.90	759.4	80	26.7	95	ene.			1–2		3	ne.						d. clouds.
H. M. S. Diamond, S. 35° 28′, E. 137° 21′	29.86	758.4	68	20.0	84	nw.			3		0					1	nw.	blue sky.
H. M. S. Dido, N. 17° 00′, W. 61° 45′	30.00	762.0	77	25.0		e.			1–2		8	ne.						showery.
H. M. S. Dryad, N. 24° 47′ E. 67° 00′	29.73	755.1				wsw.			2		1	sw.				1	w.	blue sky.
H. M. S. Eclipse, S. 15° 02′, E. 40° 48′			83	28.3	100	ese.			1		3							d. clouds.
H. M. S. Gannet, S. 33° 01′, W. 71° 37′	30.02	762.5	58	14.4	93	calm			0		10							overcast.
H. M. S. Garnet, Montevideo, Uruguay	30.12	765.0	61	16.1	88	nnw.			5		0							blue sky.
H. M. S. Inconstant, S. 30° 40′, E. 34° 30′	29.93	760.2	74	23.3	90	wsw.			2–3		3	wsw.				3	ese.	d. clouds.
H. M. S. Iron Duke, N. 22° 16′, E. 114° 10′	29.86	758.4	75	23.9	90	calm			0		5	sw.						d. clouds.
H. M. S. Lark, S. 10° 51′, E. 162° 26′	29.90	759.4	82.3	27.9		calm			0		3							d. clouds.
H. M. S. Liffey, Coquimbo, Chili	30.02	762.5	60	15.6		calm			0		4							d. clouds.
H. M. S. Magpie, N. 34° 41′, E. 135° 12′	30.03	762.7	58.9	14.9	79	calm			0		0							blue sky.
H. M. S. Malabar, N. 14° 44′, E. 54° 36′	29.90	759.4	80	26.7	91	ne.			2		0					1	ne.	blue sky.
H. M. S. Nelson, Sydney, N. S. Wales	30.05	763.3	68	20.0	79	ne.			1		1							blue sky.
H. M. S. Northampton, Bermuda, W. I.	29.71	754.0	68.5	20.3	92	ssw.			6		9	wsw.						d. clouds.
H. M. S. Pegasus, N. 13° 20′, E. 113° 32′	29.98	761.5	81	27.2	91	ne.			2		6	e.				1	e.	d. clouds.
H. M. S. Rambler, St. Paul de Loando, Benguela	29.84	757.9	82	27.8	95	sw.			3		4	ssw.						d. clouds.
H. M. S. Rocket, Esquimalt, Vancouver Id., B. C.	29.89	759.2	40	4.4		wsw.			3		8							d. clouds.
H. M. S. Serapis, N. 16° 35′ E. 63° 00	29.88	758.9	81	27.2	62	ne.			1		0							blue sky.
H. M. S. Superb, N. 38° 23′, E. 17° 35′*	29.86	758.4	58	14.4	87	ene.			2		1	ese.				1	ese.	blue sky.
H. M. S. Triumph, Valparaiso, Chili	30.03	762.7	58	14.4	1	calm			0		10	calm						misty.
H. M. S. Woodlark, N. 21° 40′, E. 63° 00′	29.83	757.7	82.5	28.1	60	wnw.			2		0					2	nw.	misty.
Portuguese Naval.																		
Rio Lima, Porto Praya, Cape Verde Islands	30.01	762.2	75.2	24.0	83	ne.			2		2		ne.			2		d. clouds.
Tamega, Macao, China	29.92	760.0	77.0	25.0	88	s.			2		6		s.			1	s.	d. clouds.
United States Naval.																		
Navy Yard, Pensacola, Fla	29.79	756.7	74	23.3	90	sw.	8	3.6			5		sw.	0	0			fair.
Navy Yard, Portsmouth, N. H.	29.82	757.4	32	0.0	100	ne.	12	5.4			10		ne.	0	0			cloudy.
Naval Hospital, Yokohama, Japan	29.90	759.4	55.5	13.1	80	calm			0		0			0	0			clear.
Adams, Panama, Panama	29.69	754.1	76	24.4	95	nnw.			1–2		5			0	0	sm'h		fair.
Alaska, S. 10° 18′, W. 79° 11′	29.89	759.2	68	20.0	90	calm			0		5		s.	0	0			fair.
Alert, Kobe, Japan*	29.90	759.4	61	16.1	82	calm			0		0			0	0	sm'h		clear.
Alliance, N. 18° 33′ W. 83° 00′	29.89	759.2	80	26.7	82	calm			0		2			light	light	sm'h		clear.
Ashuelot, Nagasaki, Japan	29.96	701.0	62	16.7	88	n.			2		10		n.					cloudy.
Brooklyn, Montevideo, Uruguay	30.08	764.0	63	17.2	89	nw.	10	4.5			0			0	0	sm'h	nw.	clear.
Colorado, New York, N. Y.	29.74	755.4	31	— 0.6	89	n.	5	2.2			10		calm	0.17	4.3			rain & snow
Enterprise, N. 15° 05′, W. 73° 25′	29.89	759.2	77	25.0	91	ene.			4		5		e.			sm'h		fair.
Essex, N. 0° 24′ W. 11° 18′	29.92	760.0	81	27.2	83	s.			3		2					sm'h	se.	clear.
Franklin, Norfolk, Va.	29.67	753.6	54	12.2	87	nnw.	12	5.4			10		nnw.	0	0			cloudy.
Galena, Leghorn, Italy	29.72	754.9	62	16.7	72	nnw.			2		5					sm'h		fair.
Independence, Navy Yard, Mare Island, Cal	29.75	755.6	44	6.7	92	nw.			1		5			0.38	9.6			fair.
Kearsarge, Samana Bay, Hayti, W. I.	30.03	762.7	74	23.3	86	calm			0		2		ne.			sm'h		fair.
Lackawanna, Callao, Peru*	29.85	758.2	61	16.1	94	calm			0		8		s.					cloudy.
Lancaster, Leghorn, Italy*	29.70	754.4	56	13.3	69	n.			2		2		n.	0	0			clear.
Marion, S. 32° 09′, E. 14° 53′	30.07	763.8	68	20.0	74	ssw.			3		10		ssw.	0	0	sm'h	ssw.	clear.
Michigan, Erie, Pa.	29.93	766.2	31	— 0.6	89	ne.			5		10		sw.					cloudy.
Minnesota, Newport, R. I.	29.70	754.4	33	0.6	89	nne.	10	4.5			10		nne.					snowing.
Monocacy, Kobe, Japan	30.04	763.0	59	15.0	82	nw.			1		0							clear.
New Hampshire, Newport, R. I.	29.67	753.6	33	0.6	100	nne.			5		10		ne.	0	0	sm'h	nne.	overcast.
Nipsic, Barcelona, Spain	29.90	759.4	63	17.2	62	ssw.			2		2					sm'h		d. clouds.
Onward, Callao, Peru†	30.07	763.8	60	15.6	94	calm			0		5		n.			long	w.	fair.
Palos, Kobe, Japan	30.04	763.0	56	13.3	69	calm			0		2		calm					clear.
Passaic, Washington, D. C.	29.74	755.4	44	6.7	92	ne.			2		10							misty.
Pensacola, Callao, Peru	29.97	761.2	67	19.4	69	ne.	1	0.4			5		e.	0	0	sm'h		hazy.
Powhatan, N. 13° 19′ W. 70° 36′	29.96	761.0	79	26.1	86	ne.			3		5					sm'h		fair.
Portsmouth, N. 40° 07′ W. 72° 32′	29.64	752.8	38	3.3	100	ne.			6		10		ne.			mod.	e.	cloudy.
Quinnebaug, Leghorn, Italy	29.90	759.4	60	15.6	60	nnw.			2		5		nnw.	0	0	sm'h		fair.
Ranger, Acapulco, Mexico*	29.82	757.4	78	25.6	82	calm			0		2		calm	0	0	sm'h		clear.
Richmond, Kobe, Japan*	29.96	761.0	61	16.1	77	calm			0		0			0	0			clear.
Shenandoah, N. 10° 06′, W. 77° 11′*	29.95	760.7	78	25.6	86	n.			3		10					mod.	n.	cloudy.
St. Louis, League Island, Pa.	29.95	760.7	34	1.1	90	nne.	20	8.9			10			0.10	2.5			cloudy.
Swatara, Kobe, Japan*	29.88	758.9	63	17.2	62	calm			0		2		calm			sm'h		fair.
Tennessee, Port Royal, S. C.	29.77	756.1	73	22.8	95	wnw.	18	8.0			5			0	0			clearing.
Vandalia, Port Royal, S. C.	29.98	761.5	70	21.1	90	wsw.			2		2		w.					fair.
Wabash, Boston, Mass.	29.76	755.9	32	0.0		ne.	6	2.7			10		ne.					snowing
Wachusetts, Sitka, Alaska	29.71	754.6	35	1.7	90	ene.			2		2		calm					fair.
Wyoming, Port Royal, S. C.	29.74	755.4	69	20.6	75	w.	12	5.4			5		w.	0.01	0.3			fair.
Yantic, Port Royal, S. C*	29.72	754.9	70	21.1	85	wnw.			3		2							clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Polynesian, N. 54° 47′ W. 5° 12′*	29.91	759.7	56	13.3	.....	calm	.....	.....	0	.....	3	.....	ese.	0	0	sm'h	.....	hazy.
AMERICAN STEAMSHIP COMPANY.																		
S. S. British Crown, N. 38° 47′, W. 70° 30′†	29.85	758.2	47	8.3	.....	n.	.....	.....	3	.....	10	.....	.....	11 h'r	11 h'r	sm'h	.....	raining.
S. S. Illinois, Philadelphia, Pa.	29.76	755.9	30	—1.1	89	nw.	.....	.....	2	.....	2	.....	nw.	.....	.....	.....	.....	clear.
S. S. Indiana, N. 45° 45′, W. 35° 15′†	29.42	747.3	51	10.6	86	wsw.	.....	.....	6	.....	2?	.....	wnw.	light	light	h'vy	con.	overcast?
S. S. Ohio, N. 39° 52′, W. 51° 50′†	29.81	757.2	46	7.8	92	n.	.....	.....	3	.. ..	5?	.....	ne.	.....	.....	.....	.....	cloudy.
ANCHOR LINE.																		
S. S. Ethiopia, N. 47° 42′, W. 36° 47′	29.11	739.4	53.5	11.9	100	s.	.....	.....	6	.....	10	.....	sw.	15 h'r	15 h'r	r'gh	s.	heavy rain.
S. S. India, N. 37° 39′, E. 9° 18′*	29.84	757.9	01	16.1	88	wnw.	.....	.....	4	.....	2	.....	.....	.....	.....	.....	.....	fair.
ATLAS LINE.																		
S. S. Alvo, Savanilla, U. S C.	29.42	747.3	.....	.....	.....	nne.	.....	.....	3	.....	9	.....	n.	0	0	.....	.....	cloudy.
S. S. Arden, N. 10° 40′, W. 71° 38′	.....	.....	.....	.....	.....	calm	.....	.....	0	.....	.....	.....	.....	.....	.....	.....	.....	fine.
S. S. Athos, N. 17° 56′, W. 76° 47′	29.63†	752.6†	.....	.....	.....	e.	.....	.....	1	.....	0	.....	.....	0	0	sm'h	.....	clear.
S. S. Claribel, N. 30° 38′, W. 73° 47′*†	29.86	758.4	70	21.1	95	ssw.	.....	.....	3	.....	8	.....	ssw.	0	0	r'gh	sw.	threatening.
BOSTON AND HALIFAX.																		
S. S. Carroll, Off Boston, Mass.†	29.88	758.9	40	4.4	82	ne.	.....	.....	3	.....	.. ..	.....	.....	snow	snow	.....	ne.	snowing.
BRITISH METEOROLOGICAL OFFICE.																		
Bk. Arran, S. 3° 44′ W. 23° 55′	29.96	761.0	83.5	28.6	68	s.	.....	.....	2	.....	6	.....	.....	.....	.....	.....	.....	d. clouds.
S. Baroda, N. 1° 37′, E. 83° 17′	29.83	757.7	85.5	29.7	78	w.	.....	.....	2	.....	2	.....	.....	.....	.....	.....	.....	d. clouds.
British Merchant, S. 3° 21′, E. 87° 32′	29.82	757.4	85	29.4	74	sw.	.....	.....	2	.....	7	.....	.....	.....	.....	.....	.....	showery.
Bk. Caldew, N. 49° 01′, W. 11° 47′	30.15	765.8	53.8	12.1	.....	sse.	.....	.....	3	.....	10	.....	.....	.....	.....	.....	.....	misty.
S. S. Cipero, Off Chicken Rock, England.	30.11	764.8	50	10.0	72	nnw.	.....	.....	1	.....	4	.....	.....	.....	.....	.....	.....	misty.
Bk. Commewyne, N. 55° 55′, W. 15° 19′	30.10	764.5	56.2	13.4	75	se.	.....	.....	2	.....	0	.....	.....	.....	.....	.....	.....	misty.
Brig Hermine, N. 8° 00′, W. 34° 05′	29.99	761.7	78.7	25.9	86	ene.	.....	.....	6	.....	3	.....	.....	.....	.....	.....	.....	blue sky.
CUNARD LINE.																		
S. S. Bothnia, N. 45° 21′, W. 41° 12′	29.11	739.4	.....	.....	.....	s.	.....	.....	6	.....	5?	.....	sw.	5 h'r	5 h'r	h'vy	sw.	cloudy.?
S. S. Scythia, N. 41° 08′, W. 62° 42′	.....	.....	43	6.1	92	ene.	.....	.....	4	.....	10	.....	ne.	5 h'r	5 h'r	mod.	ene.	cloudy.
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. Canada, N. 43° 50′ W. 43° 04′	29.30?	744.2?	44.6	7.0	.....	wsw.	.....	.....	6	.....	7	.....	w.	3 h'r	3 h'r	h'vy	wsw.	cloudy.
GUION LINE.																		
S. S. Arizona N. 49° 00′, W. 31° 46′	29.51	749.5	53	11.7	.....	sse.	.....	.....	6	.....	5	.....	sw.	0	0	mod.	se.	fine.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Gellert, N. 49° 38′, W. 16° 40′	30.08	764.0	60	15.6	.....	sw.	.....	.....	2	.....	2	.....	s.	1 h'r	1 h'r	mod.	w.	fair.
S. S. Lessing, New York, N. Y.	29.72	754.8	28	—2.2	.....	nnw.	.....	.....	3	.....	10	.....	.....	rain	rain	.....	.....	cloudy.
S. S. Silesia, N. 43° 37′, W. 44° 28′ *†	29.24	742.7	34.7	1.5	.....	w.	.....	.....	8–10	.....	10	.....	w.	12 h'r	12 h'r	9	w.	rain & snow
INMAN LINE.																		
S. S. City of New York, N. 50° 17′, W. 27° 30′	29.76	755.9	.....	.....	.....	ssw.	.....	.....	6	.....	8	.....	s.	0	0	cross	s.	threatening
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, N. 46° —′, W. 10° —′*†	30.30	769.6	58	14.4	.....	wsw.	.....	.....	1	.....	2	.....	wsw.	0	0	sm'h	.....	clear
S. S. Humboldt, N. 27° 11′, W. 20° 24′*	30.21	767.3	68.0	20.0	90	ne.	.....	.....	3	.....	4	.....	.....	0	0	3	ne.	d. clouds.
MALLORY LINE.																		
S. S. Colorado, Galveston, Texas†	29.83	757.7	72	22.2	.....	w.	.....	.....	1	.....	3	.....	w.	0	0	.....	.....	fair.
MERCHANTS' EXPRESS LINE.																		
S. S. Hermod, N. 44° 12′, W. 49° 10′*†	29.25	742.9	30.2	—1.0	.....	nw.	.....	.....	7	.....	6	.....	nw.	0	0	sm'h	.....	threatening.
NATIONAL LINE.																		
S. S. Canada, N. 42° 05′, W. 45° 32′†	29.55	750.6	40	4.4	.....	wnw.	.....	.....	7	.....	10	.....	wnw.	.....	.....	high	con.	sailing.
S. S. England, Liverpool, Eng	30.12	765.0	.....	.....	.....	se.	.....	.....	2	.....	2	.....	.....	0	0	.....	.....	clear.
S. S. Erin, London, England	30.10	764.5	54	12.2	.....	ne.	.....	.....	2	.....	9	.....	.....	0	0	.....	.....	fine.
S. S. Helvetia, N. 40° 44′, W. 69° 02′	29.79	756.7	56	13.3	.....	ene.	.....	.....	2	.....	9	.....	ese.	0	0	.....	.....	overcast.
S. S. Holland, N. 47° 24′, W. 25° 42′	29.88	758.9	56	13.3	.....	s.	.....	.....	5	.....	5	.....	s.	3 h'r	3 h'r	mod.	sw.	fair.
S. S. Italy, N. 48° 50′, W. 31° 30′	29.60	751.8	.....	.....	.....	s.	.....	.....	6	.....	5?	.....	s.	8 h'r	8 h'r	cross	s.	clear.?
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Niagara, Havana, Cuba†	29.97	761.2	72	22.2	.....	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	.....	clear.
S. S. Santiago, Cienfuegos, Cuba, W. I†	29.92	760.0	74	23.3	.....	nne.	.....	.....	1	.....	2	.....	n.	0	0	.....	.....	fine.
NEW YORK, HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, Progreso Roads, Mexico.*†	30.09	764.3	80	26.7	.....	se.	.....	.....	3	.....	2	.....	se.	0	0	sm'h	.....	hazy.
S. S. City of Puebla, N. 24° 20′ W. 81° 08′†	29.85	758.2	77	25.0	.....	ese.	.....	.....	2	.....	5	.....	sw.	.....	.....	.....	.....	
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Atlas, Les Cayes, Hayti, W. I.*†	30.08	764.0	76	24.4	.....	calm	.....	.....	0	.....	.....	.....	.....	.....	.....	sm'h	.....	overcast.
S. S. City of Washington, N. 30° 00′, W. 79° 50′ *†	29.88	758.9	75	23.9	.....	w.	.....	.....	3	.....	.....	.....	.....	.....	.....	.....	ne.	fine.
S. S. Lepanto, N. 40° 37′, W. 59° 20′*	29.78	756.4	44	6.7	.....	var.	.....	.....	1	.....	.....	.....	.....	.....	.....	sm'h	.....	fine.
S. S. New York, N. 35° 00′, W. 75° 15′*†	29.80	756.9	55	12.8	.....	nw.	.....	.....	3	.....	.....	.....	.....	.....	.....	.....	s.	
S. S. P. Caland, N. 45° 14′ W. 43° 10′	28.95	736.1	50.9	10.5	.....	nw.	.....	.....	9	.....	.....	.....	.....	.....	.....	9	nw.	stormy.
NORTH GERMAN LLOYD.																		
S. S. Graf Bismarck, N. 35° 47′, W. 11° 27′	30.28	769.1	72.5	22.5	.....	ne.	.....	.....	2	.....	2	.....	ne.	0	0	sm'h	ne.	fair.
S. S. Hermann, N. 48° 26′, W. 24° 58′†	29.74	755.4	55.4	13.0	.....	s.	.....	.....	5	.....	7	.....	sw.	3 h'r	3 h'r	h'vy	wsw.	hazy.
S. S. Lepzig, N. 39° 30′, W. 61° 06′	29.71	754.6	51.8	11.0	73	e.	.....	.....	2	.....	10	.....	ese.	1 h'r	1 h'r	.....	.....	cloudy.
S. S. Neckar, N. 40° 34′, W. 64° 38′	29.64	752.8	47.1	8.4	.....	e.	.....	.....	4	.....	3?	.....	e.	0	0	mod.	e.	covered?
S. S. Oder, N. 51° 40′, E. 2° 16′	30.15	765.8	49.1	9.5	.....	s.	.....	.....	2	.....	2	.....	sw.	0	0	sm'h	.....	fair.
S. S. Ohio, N. 39° 16′, W. 76° 34′	29.73	755.1	.....	.....	.....	ene.	.....	.....	5	.....	10	.....	.....	10 h'r	10 h'r	sm'h	.....	sprinkling.
S. S. Rhein, N. 41° 21, W. 60° 58′	29.72	754.9	.....	.....	.....	se.	.....	.....	1–2	.....	5	.....	se.	0	0	sm'h	.....	fair.
S. S. Salier, N. 49° 00′, W. 26° 30′	29.86	758.4	50.0	10.0	.....	ssw.	.....	.....	6	.....	10	.....	wsw.	7 h'r	7 h'r	long	wsw.	cloudy.
S. S. Strassburg, N. 41° 34′, W. 56° 50′	29.83	757.7	47.0	8.3	92	var.	.....	.....	1–3	.....	5	.....	n.	2 h'r	2 h'r	mod.	wnw.	fair.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Belgic, San Francisco, Cal.†	29.87	758.7	45	7.2	76	nw.	.....	.....	3	.....	2	.....	w.	0	0	sm'h	.....	clear.
S. S. Oceanic, Yokohama, Japan*	29.90	759.4	60	15.6	94	var.	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	fine.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, N. 33° 08′, W. 78° 37′†	29.70	754.4	.....	.....	.....	w.	.....	.....	4	.....	8?	.....	w.	0	0	.....	.....	clear.?
S. S. Seminole, Boston, Mass†	29.72	754.9	30	— 1.1	?	ne.	.....	.....	5	.....	10	.....	.....	6 h'r	6 h'r	.....	.....	cloudy.
OREGON IMPROVEMENT COMPANY.																		
S. S. Mississippi, Seattle, Wash. Ter.†	30.02	762.5	46	7.8	77	sso.	.....	.....	1	.....	10	.....	s.	.....	.....	.....	.....	cloudy.
S. S. Willamette, Seattle, Wash. Ter*†	30.02	762.5	41	5.0	74	se.	.....	.....	2	.....	6	.....	se.	0.1	3.	.....	.....	rainy.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. City of Chester, N. 56° 43′, W. 133° 48′*†	29.82	757.4	35	1.7	?	calm	.....	.....	0	.....	6	.....	n.	.....	.....	sm'h	.....	heavy snow
S. S. Oregon, Portland, Oregon†	29.91	759.7	45	7.2	92	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	clear.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, N. 34° 21′, W. 119° 55′†	29.86	758.4	49	9.4	93	wnw.	.....	.....	2	.....	2	.....	nw.	.....	.....	sm'h	.....	clear.
S. S. Idaho, Victoria, B. C.†	30.10	764.5	41	5.0	100	w.	.....	.....	1	.....	2	.....	s.	.....	.....	.....	.....	clear.
S. S. State of California, N. 45° 56′ W. 124° 20′†	29.94	760.5	45	7.2	68	nnw.	.....	.....	4	.....	0	.....	.....	.....	.....	mod.	nw.	clear.
S. S. Victoria, San Francisco, Cal.†	29.93	760.2	45	7.2	84	nw.	.....	.....	3	.....	0	.....	.....	0	0	.....	.....	clear.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, Sydney, N. S. W	30.09	764.3	64	17.8	78	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	clear.
S. S. City of New York, Sydney, N. S. W.†	30.09	764.3	70	21.1	61	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	.....	clear.
S. S. City of Pekin, N. 7° 14′, W. 80° 11′†	29.87	758.7	76	24.4	91	n.	.....	.....	3	.....	2	.....	n.	.....	.....	sm'h	.....	fair.
S. S. City of Rio de Janeiro, N. 23° 25′, W. 107° 50′*†	30.10	764.5	72	22.2	76	nw.	.....	.....	2	.....	7	.....	nw.	.....	.....	sm'h	irreg.	cloudy.
S. S. City of Sydney, N. 20° 50′, W. 158° 04′†	30.12	765.0	75	23.9	86	ene.	.....	.....	5	.....	5	.....	ne.	0	0	mod.	ne.	fair.
S. S. City of Tokio, N. 36° 49′, W. 130° 21′†	30.00	762.0	51	10.6	59	wnw	.....	.....	6	.....	2	.....	nnw.	6 h'r	6 h'r	r'gh	w.	clear.
S. S. Colon, Aspinwall, Panama†	29.82	757.4	80	26.7	.....	nne.	.....	.....	2	.....	0	.....	.....	0	0	sm'h	.....	clear.
S. S. South Carolina, N. 7° 40′ W. 82° 27′†	29.97	761.2	82	27.8	83	n.	.....	.....	2	.....	5	.....	ne.	1 h'r	1 h'r	light	n.	fine.
QUEBEC STEAM SHIP COMPANY.																		
S. S. Muriel, Martinique, W.I.	29.97	761.2	80	26.7	.....	calm	.....	.....	0	.....	0	.....	.....	0	0	sm'h	.....	fair.
RED STAR LINE.																		
S. S. Belgenland, Antwerp, Belgium†	30.26	768.6	45	7.2	?	e.	.....	.....	3	.....	1	.....	e.	0	0	.....	.....	clear.
S. S. Nederland, N. 41° 13′, W. 45° 47′*†	30.15	765.8	40	4.4	.....	wnw.	.....	.....	6	.....	10	.....	wnw.	4 h'r	4 h'r	r'gh	w.	misty.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
RED STAR LINE —Continued.																		
S. S. Rhynland, Isle of Wight, Eng.	30.18	766.6	50	10.0	65	e.			3		3		e.	0	0	sm'h		clear.
S. S. Switzerland, N. 40° 18′ W. 63° 29′†	29.66	753.4				ene.			3		10		s.	1 h'r	1 h'r	long	ene.	cloudy.
S. S. Vaderland, N. 47° 56′, W. 25° 45′	29.82	757.4	55	12.8	93	s.			4		10			6 h'r	6 h'r	mod.	wsw.	hazy.
S. S. Waesland, Jersey City, New Jersey	29.73	755.1	32	0.0		nne.			3		10			9 h'r	9 h'r			sleeting.
ROTTERDAM LINE.																		
S. S. Schiedam, N. 41° 15′, W. 65° 30′*	29.66	753.4	40.1	4.5	87	e.			4		7		nw.	0	0	sm'h		cloudy.
STATE LINE.																		
S. S. State of Florida, N. 41° 10′ W. 51° 43′	29.80	756.9	42	5.6		nw.			4		10		nw.	light	light	sm'h	nw.	cloudy.
THINGVALLA LINE.																		
S. S. Thingvalla, Copenhagen, Denmark†	30.17	766.3	50.9	10.5		se.			1		2		se.	0	0			clear.
WHITE STAR LINE.																		
S. S. Adriatic, N. 43° 48′, W. 46° 46†	29.46	748.3	32	0.0		nw.			9		10		nw.	24 h'r	24 h'r	high	nnw.	raining.
S. S. Celtic, Liverpool, England†	30.14	765.5	48	8.9		ne.			3		0			0	0			fine.
WILSON LINE.																		
S. S. Romano, N. 46° 15′, W. 33° 01′†*	29.22	742.2	53	11.7		wsw.			5		10		wnw.	6 h'r	6 h'r	rg'h	nw.	cloudy.
W NSOR LINE.																		
S. S, Catherine Whiting, Neversink, N. J.†	29.82	757.4				ne.			2				nw.	0	0	long	ne.	
S. S. Norman, N. 42° 10′, W. 70° 13′	29.43	747.5				ne.			5		10		ne.	2 h'r	2 h'r	hv'y	ne.	cloudy.
MISCELLANEOUS.																		
Schr. Addie Fuller, N. 24° 00′, W. 80° 35′†	30.06	763.5	77	25.0	82	calm			0	3 cs	1 k			0	0	sm'h		fair.
Bk. Adelaide, Rio de Janeiro, Brazil*†	30.00	762.0	78	25.6		wsw.							wsw.					
Schr. Ajax, N. 29° 55′, W. 87° 15′†	29.97	761.2				w.			2		3		w.	0	0	sm'h		fair.
Bk. Alpha, N. 25° 30′, W. 67° —†	29.95	760.7	73	22.8		sw.			2		2		w.	0	0	sm'h		fair.
Bk Antioch, S. 31° 50′, W. 200 55′*†	30.00	762.0	72	22.2		wsw.			6		10		sw.	6 h'r	6 h'r	mod	sw.	rainy.
Schr. Asa Eldridge, N. 25° 33′ W. 82° 30′†	30.05	763.3				sw.			3		5		sw.	0	0	sm'h		fair.
Bk. Aureola, N. 22° 58′ W. 35° 56′*†	30.35	770.9	88	31.1		se.			1		1		e.	0	0	mod.	nnw.	clear.
Schr. Annie M. Smull, S. 41° 15′. E. 16° 05′*†	29.80	756.9	60	15.6										0	0			
Bk. Bergenseren, N. 37° 14′, W. 1° 00′†	29.92	760.0				wsw.			1					0	0			clear.
Cerrie Heckle, N. 27° 27′ W. 69° 30*†	30.08	764.0	73	22.8		sw.			5		2		sw.	0	0	sm'h	sw.	clear.
Bk. Celestina, S. 21° 25′ W. 37° 36′*†	30.10	764.5				se.			2		1		se.	0	0	long	ssw.	fine.
Bk. Champion, N. 39° 59′, W. 53° 10′?†	29.91	759.7				n.			4		2		e.	0	0	sm'h	ne.	
Dora, N. 28° 10′ W. 87° 55††	29.98	761.5	78.4	25.8		ssw.			5		5		sw.	0	0	sm'h		hazy.
Bk. E. L. Pettingill, N. 15° 41′ W. 126° 29′†	30.00	762.0				nne.			6		8		ne.	0	0	r'gh	nne.	overcast.
S Enoch Train, N. 49° 43′ W. 26° 26′*	29.75	755.6				sw.			4		10		sw.	rain	rain	h'vy	nw.	rainy.
S. Exporter, N. 25° 30′, W. 30° 18′*†	30.35	770 9				sse.			3		0			0	0	long	nw,	fine.
S. Festina Lente, N. 48° 16′, W. 39° 46′*	29.13	739.9	49	9.4		w.			6		10		w.	24 h'r	24 h'r	h'vy	e.	heavy rain.
U.S. F. C. S. Fish Hawk, Washington, D. C.†	29.83	757.7	47	8.3	100	n.			3		10		nne.	0.20	5.1			drizzling
S. Grecian, S. 35° 13′, W. 22° 51′*†	30.00	762.0	65	18.3		wsw.			6		5?		wsw.	0	0	long	wsw.	clear?
Bk. Freya, N. 36° 29′, W. 65° 04′			65	18.3		wsw.			6		8		wsw.	10 h'r	10 h'r	high	e.	cloudy.
Bk. Granville, S. 37° 11′, E. 11° 10′*†	30.13	765.3				wnw.			3				wnw.	0	0	mod.	wnw.	cloudy.
Bk. Hattie G. McFarland, Chesapeake Bay,*†	29.68	753.9	52	11.1		ne.			7		10		ne.	0	0			hazy.
Schr. Henry Denison, Port Antonio, Jamaica, W. I†	29.94	760.5				ene.			4		3		e.	0	0			fair.
S. Hedwig, N. 46° 56′, W. 38° 26′	29.18	741.1	50.0	10.0	82	ssw.			6		9		ssw.	4 h'r	4 h'r	5	s.	clearing.
Schr. John L. Thomas, N. 25° 05′ W. 68° 53′*†	30.06	763.5				sw.					9		w.	0	0	mod.	se.	fine
Bg John Wesley, Sagua la Grande, Cuba, W. I.†	29.97	761.2	77	25.0		s.			1		2			0	0			clear.
Bk. Jona, N. 36° 43′, W. 57° 26′*†	30.00	762.0				ese.			3				w.	3 h'r	3 h'r	cross		cloudy.
Bkt. Josephine, Aspinwall, Panama*†	30.00	762.0	83	28.3	67	n.			4		0			0	0			clear.
Lake Erie, N. 38° 00′ W. 69° 00′	29.47	748.5				ene.			6		8?		e.	rain	rain	hv'y	ese.	clear?
Bk. Liberia, N. 28° 30′, W. 27° 35′*†	30.25	768.3	72	22.2	75	se.			1		9		nw.	0	0	long	nw.	fine.
Light House Tender, Laurel, Key West, Florida†	29.97	761.2	77	25.0		calm			0		3		sw.	0	0			clear.
Schr. Maggie Abbott, N. 34° —′, W. 73° —′*†	29.52	749 8				w.								rain	rain	short	w.	clear.
S. S. Malabar, N. 46° 40′, W. 7° 45′*†	30.07	763.8				e.			2		hz.		e.	0	0			hazy.
Bg. Medina, Key Francis, W. I.†	30.07	763.8				se.			1		8		e.					fine.
S. S. Nebo, Rio de Janeiro, Brazil*†	30.03	762.7				se.			1		10		se.	18 h'r	18 h'r			drizzling.
S. S. New York, N. 38° 03′, E. 7° 48′*†	30.54	775.7				w.			3				w.	0	0	long	nw.	fair.
Bk. Peppina, N. 45° 20′, W. 10° 56′†	30.11	764.8	57	13.9	87	nw.			2		0					sm'h		clear.
S. S. Radnorshire, N. 40° 51′, W. 38° 10′*†	29.30	744.2				w.			9		2		wnw.	5 h'r	5 h'r	long	w.	squally.
S. Salisbury, N. 23° 03′, W. 39° 00′*	30.21	767.3	79.5	26.4	75	sse.			1		4			½h'r	½h'r	mod	nnw.	fair.
Bkt. Spotless, N. 1° 13′, W. 27° 53′						ne							ne.			hv'y	se.	squally.
Bk. Stella, S. 57° 19′, W. 77° 10′*†	28.98	736.1	44.6	7.0	94	nne			4		10		n.			mod.	var.	drizzling.
S. S. Victoria J. Peed, Barranquilla, U. S. C.*†	29.11	739.4				se.			1		9		se.					
S. Wm. Woodbury, N. 46° 04′, W. 32° 04′*†	29.15	740.4	56	13.3		s.			9		10		s.			h'vy	s.	raining.

International Chart I. April 10, 1882. Isobars and Isotherms.



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON APRIL 11, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours	.....	.....	30.06	763.5	72.3	22.4	75	w.	.....	.....	3	.....	0	.....	.....	0	0	clear	Moiroud.
Algiers	.....	.....	29.98	761.6	64.0	17.8	68	wnw.	.....	.....	6	.....	1	.....	.....	0	0	clear	Nicolas.
La Calle	.....	.....	29.96	761.0	59.0	15.0	85	ene.	.....	.....	4	.....	4	.....	.....	0	0	cloudy	Fonfréde.
Tunis	.....	.....	29.93	760.3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.09	764.2	65.8	18.8	41	sse.	.....	.....	2	.....	3	.....	.....	c	0	pretty fair	Dumas.
Tebessa	.....	.....	30.06	763.4	55.8	13.2	43	n.	.....	.....	1	.....	1	.....	.....	0	0	clear	Derché.
Geriville	.....	.....	.....	.....	61.9	16.6	17	nw.	.....	.....	2	.....	3	.....	.....	0	0	pretty fair	Louchamp.
Laghouat	.....	.....	30.13	765.3	68.0	20.0	66	w.	.....	.....	3	.....	1	.....	.....	0	0	very fair	Abraham.
Biskra	.....	.....	30.07	763.7	72.3	22.4	25	wnw.	.....	.....	4	.....	0	.....	.....	0	0	clear	Malau.
Australian.																			
Melbourne, Victoria	29.81	757.2	29.91	759.7	59.0	15.0	66	wsw.	14	6.3	.....	.....	1	.....	.....	0.01	0.3	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.19	741.3	29.75	755.6	40.3	4.6	68	nw.	.....	.....	2	.....	10	.....	.....	0.004	0.1	.....	Prof. Ivan Stozir.
Cracow, I. R Observatory	28.95	735.3	29.72	755.0	44.6	7.0	69	e.	12.5	5.6	.....	.....	10	.....	.....	0.094	2.4	.....	Dr. Wierzbiski.
Eperies	28.82	732.1	29.71	754.5	44.8	7.1	61	calm	.....	.....	0	.....	10 ns	.....	.....	0.362	9.2	.....	Julius Mikolik.
Gratz	28.47	723.2	29.74	755.5	42.8	6.0	57	nw.	.....	.....	4	.....	10	.....	.....	0.209	5.3	.....	Andreas Rospini.
Hermannstadt	28.26	717.7	29.67	753.7	53.2	11.8	34	sse.	.....	.....	6	.....	0	.....	.....	0	0	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.44	722.3	29.82	757.3	36.7	2.6	58	w.	.....	.....	3	.....	10	.....	.....	0.276	7.0	.....	The Staff.
Lemberg	28.74	729.9	29.72	755.0	47.8	8.8	33	se.	.....	.....	5	.....	7	.....	.....	0	0	.....	Dr. T. Stanecki.
Pola	29.67	752.1	29.72	755.0	47.1	8.4	61	nw.	.....	.....	1	.....	8	.....	.....	0.173	4.4	.....	I. R. Hydrographic Office.
Szathmar	29.18	741.1	29.64	752.8	50.8	13.8	37	se.	.....	.....	3	.....	7	.....	.....	0	0	.....	Joseph Midlinszky, S. J.
Szegedin	29.37	746.0	29.65	753.2	45.3	7.4	83	sw.	.....	.....	3	.....	10	.....	.....	0	0	.....	Karl Stancel.
Trieste	29.67	753.6	29.77	756.2	47.1	8.4	37	ne.	.....	.....	1	.....	10	.....	.....	0	0	.....	Rieder.
Vienna	29.02	737.1	29.76	755.9	34.7	1.5	91	nw.	.....	.....	3	.....	10	.....	.....	0.705	17.9	.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.86	758.4	29.96	761.0	40.6	4.8	81	e.	23	10.3	.....	.....	10	.....	.....	0.100	2.5	squally	W. Boswell.
Armagh, Observatory	29.63	752.6	29.87	758.7	50.4	10.2	64	sse.	5	2.2	.....	.....	3	.....	.....	.....	.....	d. clouds	S. Call.
Bidston, Liverpool Obs'y	.....	.....	29.86	758.4	53.3	11.8	60	ese.	9	4.0	.....	.....	2	.....	.....	.....	.....	misty	John Hartnup.
Bolton, Sharples	29.32	744.7	29.85	758.2	52.2	11.2	56	ssw.	6	2.7	.....	.....	2	.....	.....	.....	.....	misty	Thomas Mackereth. [A.S.
Bradford, Yorkshire	29.43	747.5	29.83	757.7	45.1	7.3	71	ne.	.....	.....	2	.....	4	.....	.....	0	0	d. clouds	J. McLandsborough, F. R
Bridgetown, Barbadoes	29.96	761.0	29.99	761.7	81.0	27.2	70	ne.	.....	.....	2	.....	6	.....	.....	.....	.....	gloomy	Corpl. J. Surgenor, A. H.C.
Cardington	.....	.....	29.90	759.4	55.0	12.8	55	n.	.....	.....	0.4	.....	2	.....	.....	.....	.....	blue sky	John McLaren.
Chatham, School M. E.	29.78	756.4	29.91	759.7	50.1	10.1	74	calm	.....	.....	0	.....	4	.....	.....	.....	.....	d. clouds	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	29.71	754.6	29.93	760.2	53.3	11.8	59	s.	.....	.....	2	.....	9	.....	.....	.....	.....	overcast	The Staff.
Fort Napier, Natal	27.63	701.8	29.84	757.9	72.2	22.3	54	se.	.....	.....	1	.....	0	.....	.....	.....	.....	blue sky	Pvt. E. K. Annis, A. H.C.
Free Town, Sierra Leone	29.58	751.3	29.81	757.2	88.0	31.1	55	n.	.....	.....	1	.....	3	.....	.....	.....	.....	raining	Sergt. John Robinson.
Gibraltar, Mediterranean	30.00	762.0	30.05	763.3	69.3	20.7	75	w.	.....	.....	2	.....	0	.....	.....	.....	.....	blue sky	Opl. O. Baldwin.
Glasgow, Observatory	29.70	754.4	29.91	759.7	44.3	6.8	55	ene.	.....	.....	1	.....	10 k	.....	.....	.....	.....	d clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.73	755.1	29.90	759.4	55.9	13.3	41	nne.	.....	.....	1	.....	0	.....	.....	.....	.....	misty	The Staff.
Guernsey	29.67	753.6	29.97	761.2	53.4	11.9	63	s.	.....	.....	1	.....	5	.....	.....	.....	.....	d. clouds	A. Collenette, F. M. S.
Kew, Observatory	29.88	758.9	29.92	760.0	51.6	10.9	59	nw.	3	1.3	.....	.....	0	.....	.....	.....	.....	hazy	The Staff.
Leicester, Museum	29.62	752.3	29.87	758.7	53.0	11.7	53	calm	.....	.....	0	.....	0	.....	.....	.....	.....	blue sky	J. C. Smith.
Malta, Mediterranean	29.74	755.4	29.82	757.4	61.4	16.3	88	n.	.....	.....	3	.....	6	.....	.....	blank	blank	d. clouds	I. H. Whysall.
Nassau, Bahamas	29.94	760.5	29.99	761.7	78.2	25.7	73	sw.	.....	.....	1	.....	4	.....	.....	.....	.....	d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.36	745.7	29.86	758.9	53.8	12.1	56	se.	.....	.....	1	.....	7	.....	.....	.....	.....	d. clouds	John Mac Email.
Oxford, Radcliffe Obs'y	29.67	753.6	29.90	759.4	54.7	12.6	55	w.	.....	.....	1	.....	0	.....	.....	.....	.....	misty	The Staff.
Plymouth	29.86	758.4	29.94	760.5	54.8	12.7	65	sse.	.....	.....	1	.....	8	.....	.....	.....	.....	misty	John Merrifield.
Sandwick Manse, Orkneys	.....	.....	30.01	762.2	41.2	5.1	64	e.	16	7.2	.....	.....	10	.....	.....	.....	.....	misty	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.45	748.0	29.52	749.8	43.6	6.4	88	nnw.	.....	.....	2	.....	10	.....	.....	.....	.....	raining	W. H. Lyne.
Sheffield	29.63	752.6	29.91	759.7	50.9	10.5	64	ene.	.....	.....	1	.....	5	.....	.....	0	0	d. clouds	W. F. Cooper.
Silloth Rectory	29.86	758.4	29.89	759.2	47.0	8.3	72	e.	.....	.....	1	.....	6	.....	.....	0	0	misty	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	29.88	758.9	48.3	9.1	60	ne.	5	2.2	.....	.....	3	.....	.....	.....	.....	misty	Rev. S. J. Perry.
Stratfield Turgiss	29.69	754.1	29.91	759.7	58.6	14.8	45	sw.	.....	.....	1	.....	0	.....	.....	.....	.....	blue sky	Rev. O.H. Griffiths, F.M.S.
Truro, Royal Institution	29.86	758.4	29.90	759.4	57	13.9	62	s.	.....	.....	4	.....	10	.....	.....	.....	.....	gloomy	W. Newcombe.
Valencia, Observatory	29.80	756.9	29.82	757.4	56.3	13.5	70	ese.	17	7.6	.....	.....	6	.....	.....	.....	.....	misty	The Met'g'l Office.
Canadian.																			
Bathurst, N. B	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.83	757.7	29.87	758.7	28	— 2.2	76	ne.	8	3.6	.....	.....	10 s	.....	.....	0	0	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	29.83	757.7	29.90	759.4	27	— 2.8	88	ne.	7	3.1	.....	.....	10 n	.....	ne.	0	0	cloudy	G. A. Blair.
Father Point, Quebec*	29.86	758.4	29.88	758.9	27	— 2.8	96	calm	0	c	.....	.....	10 k	.....	calm	0	0	threatening	J. McWilliams.
Fort Garry, Manitoba*	29.62	752.3	30.53	775.4	12	—11.1	96	e.	6	2.7	.....	0	0	.....	.....	0	0	clear	James Stewart.
Halifax, N. S*	29.64	752.8	29.77	756.1	29	— 1.7	100	ne.	18	8.0	.....	.....	10 n	.....	.....	0.150	3.8	heavy snow	A. Allison.
Kingston, Ontario*	29.56	750.8	29.92	760.0	24	— 4.4	76	nw.	9	4.0	.....	0	2 s	.....	w.	inap.	inap.	fair	A. P. Knight, M. A.
Montreal, Quebec*	29.65	753.1	29.87	758.7	26	— 3.3	84	w.	2	0.9	.....	0	5 ks	.....	n.	0.01	0.3	fair	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.34	745.2	30.09	764.3	14	—10.0	66	n.	12	5.4	.....	2 cs	0	n.	.....	0	0	fair	Rev. R. Mosley.
Port Dover, Ontario	29.32	744.7	30.06	763.5	23	— 5.0	86	w.	8	3.6	.....	0	0	.....	.....	inap.	inap.	clear	H. Morgan.
Port Stanley, Ontario	29.39	746.5	30.08	764.0	21	— 6.1	87	w.	10	4.5	.....	5 k	0	nw.	.....	inap.	inap.	fair	M. Payne.
Quebec, Quebec*	29.53	750.0	29.87	758.7	24	— 4.4	88	e.	.....	.....	1	0	hz.	.....	.....	0.01	0.3	hazy	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.54	750.3	30.04	763.0	13	—10.6	80	nw.	5	2.2	.....	8 c	0	n.	.....	0	0	fair	W. H. McIntyre.
Saugeen, Ontario*	29.30	744.2	30.06	763.5	20	— 6.7	91	ne.	12	5.4	.....	.....	10 s	.....	.....	0.04	1.0	cloudy	
St. Andrews, N. B	29.71	754.6	29.77	756.1	27	— 2.8	89	ne.	3	1.3	.....	.....	10 n	.....	.....	0.30	7.6	heavy snow	
Sydney, C. B*	29.88	758.9	29.95	760.7	25	— 3.9	96	calm	0	0	.....	10 k	0	sw.	.....	0	0	fair	T. C. Hill, C. E.
Toronto, Ontario*	29.63	752.6	30.04	763.0	24	— 4.4	80	nw.	20	8.9	.....	5 ok	0	nw.	.....	inap.	inap.	fair	Magnetic Observatory.
Yarmouth, N. S*	29.60	751.8	29.67	753.6	30	— 1.1	84	ne.	2	0.9	.....	.....	10 n	.....	.....	0.44	11.2	light snow	Lt. F. E. Wilmot, R. N.
Sub-series.																			
St. Johns, Newfoundland	29.71	754.6	29.97	761.2	35	1.7	100	w.	1	0.4	.....	.....	10	.....	.....	0	0	fair	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	29.99	761.7	30.02	762.5	68.0	20.0	83	w.	15.6	7.0	.....	0	3 s	.....	.....	0	0	hazy	John Duthie.
Cape Town, C. G. H. Obs'y	29.97	761.2	30.01	762.2	76.5	24.7	63	wnw.	9	4.0	.....	4	4	.....	.....	0	0	.....	The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Chinese (*Sub-series*).																			
Hankow																			N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.78	756.4	29.80	757.0	57.2	14	94	nw.	9.4	4.2			10 n			0.673	17.1	raining	M. Marc Dechevrens, S.J.
Danish.																			
Copenhagen	29.87	758.7	29.92	759.9	44.6	7.0	49	ssw.	16	7			1						Oversergent Fischer.
Fanöe	29.89	759.2	29.91	759.7	41.5	5.3	87	wsw.			4		8						Overloerer Lauridsen.
Godthaab, Greenland	30.43	773.0	30.48	774.1	26.8	— 2.9	87	wnw.			2		10						S. Kleinschmidt.
Stykkisholm, Iceland	30.32	770.2	30.37	771.3	25.5	— 3.6	95	ne.			8		0						A. O. Thoriacius.
Thorshavn	30.12	765.1	30.16	766.0	33.1	0.6	64	ne.	18	8			5						Overloerer Bergh.
Vestervig	29.73	755.2	29.82	757.5	41.5	5.3	78	wnw.			4		10						Loerer Oesterbol.
French.																			
Agen, Normal School	29.30	744.2	29.95	760.8	62.6	17	66	calm			0		kn ;n			0	0		M. Labroue, Director.
Alençon, Normal School	29.45	747.9	30.00	761.9	50.7	10.4	70	n.				c		n.	w.	0	0		M. Nicot, Director.
Arras, Engineer School	29.67	753.6	29.93	760.3	42.3	5.7	85	se.			1		10			0	0	light rain	Capt. Bertrand, Dir.
Avignon, Normal School	29.78	756.4	29.86	758.4	55.6	13.1	33	n.			6		0			0	0	clear	M. Giraud, Direct.
Bar-sur-Seine	29.38	746.2	29.94	760.4	50.0	10.0	40	se.			1		3			0	0	slightly cld'y	M. Saillard, Director.
Beauvais, Normal School	29.69	754.2	29.96	761.0	51.6	10.9	46	n.			1		8		n.	0	0	very cloudy	M. Frère Eugène Marl.
Besançon, Normal School	28.94	735.1	29.84	757.8	51.1	10.6	43	ne.			3		5		w.	0	0	cloudy	M. Gobin, Director.
Bordeaux, Observatory	29.71	754.5	29.97	761.1	59.0	15.0	44	nw.			1		8			0.008	0.2	very cloudy	M. Rayet, Director.
Bourges, Normal School	29.41	747.0	30.00	762.1	53.6	12	22	n.			1					0	0		M. Postel, Director.
Brest, Naval Observatory	29.73	755.1	29.97	761.3	58.3	14.6	63	sw.			2		4		sw.	0	0		M. de Kermaree, Dir.
Caen, Normal School	29.87	758.8	29.95	760.7	57.2	14	47	w.			1		5		w.	0	0	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.61	752.0	29.93	760.2	51.8	11.0	63	calm			0		2			0	0	slightly cl'dy	M. Jadot, Director.
Charleville, Normal School																			M. Grimard, Director.
Clermont-Ferrand Obs'y	28.56	725.5	29.92	760.0	52.5	11.4	18	n.			1		0	n.		0	0	clear	M. Allnard, Director.
Cluny, Normal School	29.06	738.2	29.91	759.7	52.2	11.2	39	nw.			2			n.		0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.05	737.9	29.93	760.2	50.9	10.5	45	n.			1		2 kn	n.	n.	0	0	slightly cl'dy	Dr. Coulet, Director.
Gap, Normal School	27.19	690.5	29.70	754.3	51.8	11	19	n.			2					0	0		M. Jeanginard, Director.
Gréasque, du. Rhone	28.63	727.3	29.76	755.8	54.5	12.5	19	nw.			3		1		nw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.10	739.0	29.86	758.5	50.9	10.5	44	nnw.			4	2 c	0			0	0	slightly cl'dy	M. Ablard, Director.
Guéret, Normal School	28.38	720.8	29.97	761.1	48.0	8.9	50	n.			1	c	0	s.		0	0		M. Rivoire, Director.
Lamballe, Normal School																			M. Ollitrault, Director.
Lescar, Normal School	29.45	748.0	30.01	762.2	59.9	15.5	48	wnw.			3	0	2 k			0	0	slightly cl'dy	M. Chauvin, Director.
Lorient, Naval Observatory	29.94	760.4	30.04	763.0	51.8	11.0	95	se.			1		0			0	0	clear	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.86	733.1	29.93	760.1	49.8	9.9	18	n.			2		0			0	0	clear	M. André, Director.
Mans, Normal School	29.68	753.8	29.99	761.7	51.1	10.6	95	sw.			1		0			0	0	clear	M. Piboen, Director.
Marseille, Observatory	29.53	750.0	29.80	756.8	56.1	13.4	18	nw.			4		0			0	0		M. Stephan, Director.
Montlouis l'instituteur	24.67	626.7	29.52	749.7	41.0	5.0	35	sw.	3.8	1.7			0						M. Cave, for Dr. Fines.
Montpellier, Normal School	29.72	754.8	29.85	758.1	59.4	15.2	26	n.			4		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.11	739.3	29.88	759 0	51.1	10.6	65	ne.			2	2 k	0			0	0	slightly cl'dy	M. Hasse, Director
Nantes, Observatory	29.85	758.2	30.02	762.4	58.5	14.7	42	ese.			0–1	0	0			0	0	clear	M. Larocque, Director.
Perpignan, Observatory	29.80	756.9	29.91	759.7	58.3	14.6	41	n.	20.6	9.2			3		nw.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.04	534.4			17.6	— 8.0		s.			1		1		s.	0.087	2.2		Gen'l de Nansouty, Dir.
Privas, Normal School	28.81	731.7	29.87	758.8	51.8	11	19	n.			4		0			0	0	clear	M. Tallieu.
Puy de Dôme Obs'y, Summit	24.98	634.5			30.2	— 1.0	45	nw.			3		0			0	0	clear	M. Allnard, Director.
Rochefort, Naval Obs'y	29.93	760.3	29.97	761.1	63.3	17.4	70	wnw.			1		0			0	0	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.75	755.6	29.97	761.2	57.2	14	44	n.			1		0			0	0	clear	M. Mouillot, Director.
Rodez, Normal School	27.78	705.6	29 94	760.4	48.9	9.4	40	nw.			2		0			0	0	clear	M. Serger, Director.
Rouen, Normal School	29.93	760.2	29.98	761.4	50.0	10	62	ne.			1		10	nw.		0	0	covered	M. Brotier.
Saint Maur, Observatory	29.80	756.8	29.96	761.0	50.4	10.2	40	nne.			1		8		n.	0	0		M. Renou, Director.
Toulouse, Observatory	29.28	743.8	30.01	762.2	58.6	14.8	53	nnw.			3		2	nw.		0	0	slightly cl'dy	M. Bailland, Director.
Versailles, Observatory	29.48	748.9	29.98	761.4	52.9	11.6	45	sw.			1					0	0		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.67	753.7	29.97	761.1	51.1	10.6	37	n.			2		9		n.	0	0		M. Marié Davy, Director
German.																			
Bamberg	29.04	737.7	29.89	759.3	36.1	2.3	70	n.			3	0	6 k		n.	0.039	1.0	snowing	Prof. Dr. Hoh.
Berlin	29.72	754.8	29.89	759.3	46.0	7.8	36	nw.			4		7			0	0		Prof. Dr. Arndt.
Breslau	29.30	744.1	29.82	757.5	34.7	1.5	94	n.			2		10			0.071	1.8	snowing	Royal University Obs'y.
Carlsruhe	29.46	748.2	29.90	759.5	44.4	6.9	36	ne.			2		4	nw.				light snow	Albert Senz.
Cassel	29.19	741.5	29.91	759.6	41.0	5.6	39	nw.			2		5	n.		0	0		Dr. H. Möhl.
Frankfort on the Main	29.53	750.0	29.89	759.3	46.6	8.1	38	n.			1		5			0	0		Physical Society.
Friedrichshafen	28.45	722.7	29.95	760.7	32.0	0.0	96	e.			1		10	n.		0.075	1.9	snowing	Wilhelm, Chief Tel.
Hamburg	29.88	759.0	29.98	761.4	43.5	6.4	59	sse.			2		2			0	0		E. Preller.
Kiel	29.93	760.1	29.94	760.5	44.2	6.8	51	ssw.			1		2			0.004	0.1		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.50	749.2	29.93	760.1	42.4	5.8	47	ne.			2		7	ene.		0	0		H. Leppig, Asst.
Magdeburg	29.75	755.6	29.95	760.6	43.5	6.4	51	nne.			1	0	7 ks		nw.	0	0		Dr. Assmann.
Memel	29.94	760.4	29.98	761.6	42.6	5.9	66	nw.			2	0	2 ks						Issermann.
Munich	27.99	711.0	29.84	758.0	35.4	1.9	68	nw.			1		7	sw.		0.063	1.6		Central Station.
Neufahrwasser	29.92	760.0	29.94	760.4	41.0	5.0	55	nne.			1		5			0	0		A. Lothes.
Neustadt, Palatinate	29.38	746.3	29.91	759.6	43.3	6.3	46	n.			2		8	n.		0	0		Dicknether.
Stuttgart	28.92	734.5	29.83	757.7	40.1	4.5	53	n.			4		4	n.		0.059	1.5		Prof. Dr. Schoder.
Wustrow	29.96	761.0	29.99	761.7	41.5	5.3	59	n.			2	0	0			0	0		Profs. Brandes & Reimer.
Greek.																			
Athens	29.31	744.4	29.71	754.5	56.1	13.4		nw.			1.0	5 k				0	0		Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.78	756.4	29.83	757.7	82.5	28.1	71	wsw.	28.0	12.5			3			0	0	misty	
Deesa	29.26	743.2	29.72	754.8	97.3	36.3	13	wsw.	7.2	3.2			0			0	0	blue sky	
Bombay	29.76	755.9	29.80	756.9	84.3	29.1	62	wnw.	11.0	4.9			0			0	0	blue sky	
Poona, Yarrowda	27.90	708.8	29.70	754.4	93.5	34.2	13	wnw.	17.0	7.6			7	wsw.		0	0	d. clouds	
Belgaum	27.24	691.9	29.73	755.2	84.7	29.3	50	wsw.	10.0	4.5			0			0	0	misty	
Lahore	29.02	737.1	29.76	755.8	86.0	30.0	27	calm	1.4	0.6			4			0	0	blue sky	
Roorkee	28.83	732.3	29.71	754.6	89.2	31.8	14	nw.	2.4	1.1			1			0	0	blue sky	
Agra	29.20	741.7	29.75	755.7	93.1	33.9	15	w.	5.4	2.4			0			0	0		
Nagpur	28.63	727.1	29.63	752.5	99.5	37.5	17	calm	4.1	1.8			4		w.	0	0	d. clouds	
Jubbulpore	28.40	721.3	29.71	754.7	93.7	34.3	12	calm	2.8	1.2			0			0	0	blue sky	
Lucknow	29.37	746.0	29.74	755.3	93.5	34.2	26	wnw.	6.5	2.9			0			0	0	blue sky	
Allahabad																			
Patna	29.56	750.7	29.74	755.3	92.7	33.7	13	wnw.	5.0	2.2			0			0	0	blue sky	
Hazaribagh	27.73	704.4	29.67	753.6	91.6	34.8	13	nw.	7.9	3.5			0			0	0		
Cuttack	29.65	753.1	29.73	755.2	86.9	30.5	66	ssw.	4.4	2.0			8			0	0		
Calcutta, Alipore	29.69	754.2	29.71	754.7	86.7	30.4	62	s.	9.0	4.0			1			0.14	3.6	d. clouds	
Dhubri	29.56	750.9	29.68	753.8	83.5	28.6	62	ssw.	4.0	1.8			0			0	0	blue sky	
Chittagong	29.72	754.8	29.81	757.1	81.7	27.6	82	s.	6.5	2.9			1			0	0	blue sky	
Sibsagar	29.45	748.1	29.80	756.8	70.8	21.6	85	ne.	5.3	2.4			6			0.04	1.0	d. clouds	
Jeypore	28.34	719.9	29.75	755.6	92.7	33.7	13	wnw.	3.8	1.7			1		w.	0	0	blue sky	
Zanzibar, Africa	29.82	757.4			85.1	29.5	73	w.	4.1	1.8			4		e.	0.20	5.1	d. clouds	
Bellary	28.24	717 3			97.8	36.6	21	e.	3.7	1.7		3 ck	7	s.		0	0	gloomy	
Trichinopoly	29.50	749.3			94.0	34.4	44	se.	2	0.9			5			0	0	d. clouds	
Italian.																			
Udine	29.35	745.4	29.76	755.8	48.4	9.1	21	ne.	1.3	0.6			8			0.008	0.2		Prof. Giovanni Clodig.
Milan	29.24	742.6	29.71	754.7	52.5	11.4	5	n.	9.8	4.4			1			0	0		Prof. Schiaparelli.
Padua	29.64	752.9	29.75	755.7	48.6	9.2	24	se.	3.1	1.4			0			0.004	0.1		Prof. Dott. Lorenzoni.
Moncalieri	28.85	732.7	29.74	755.5	51.8	11.0	26	ese.	4.3	1.9			0			0	0		Prof. P. F. Denza.
Genoa	29.55	750.5	29.74	755.3	54.0	12.2	15	nw.	6.9	3.1			0			0	0		Prof. G. M. Garibaldi.
Mondovi	27.80	706.2	29.72	754.8	45.3	7.4	37	n.			6		0			0	0		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
ITALIAN.—Continued.																			
Pesaro	29.71	754.7	29.76	755.9	46.4	8.0	44	n.	13.6	6.1			2			0	0		Prof. Luigi Guidi.
Florence	29.49	749.0	29.74	755.4	51.8	11.0	9	nne			4		1			0	0		Prof. Costantino Pitter.
Leghorn	29.64	752.8	29.72	755.0	53.8	12.1	26	wnw.	11.9	5.3			3			0	0		Prof. P. Monte.
Rome	29.48	748.8	29.65	753.2	58.1	14.5	28	nnw.	6.9	3.1			2			0.201	5.1		Prof. P. S. Ferrari.
Lecce	29.41	747.1	29.67	753.5	60.8	16.0	47	nnw.	2.5	1.1			3	W.		0	0		Prof. C. de Giorgi.
Cosenza	28.82	731.9	29.70	754.4	57.2	14.0	71	nw.	3.8	1.7			9	n.		0.283	7.2		Prof. D. Conti.
Cagliari	29.54	750.4	29.74	755.3	59.7	15.4	36	nw.			6		2	nw.		0.012	0.3		Prof. A. Pacinotti.
Palermo	29.49	749.1	29.74	755.4	59.5	15.3	44	w.	11.2	5.0			8	w.		0.024	0.6		Prof. G. Ciacciatore.
Syracuse	29.70	754.4	29.74	755.5	61.9	16.6	69	w.	12.5	5.6			7	sW.		0.039	1.0		Prof. Vincenzo Guiliano.
Sub-series.																			
Naples, S. R	29.13	739.8	29.65	753.1	55.4	13.0	70	e.	1.3	0.6			5	s.		0.213	5.4		Prof. T. Brioschi.
Stelvio	21.77	552.9			12.9	—10.6	63	ne.			4		10			0	0	covered	Prof. P. F. Denza.
Valdobbia	21.77	552.9			22.8	— 5.1	50	ne.			6		6			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Aomori	30.20	767.1	30.24	768.1	41.4	5.2	81	e.	4.9	2.2		0	0			0	0		K. Ogawa.
Hakodate	30.28	769.1	30.30	769.6	40.0	4.4	88	ese.	24.0	10.7			10			0	0	covered	
Hiroshima, I. M. Obs'y	29.94	760.5	29.96	761.0	56.2	13.4	95	ne.	0.6	0.3			10 n			1.416	36.0	light rain	K. Sasaki.
Kanazawa	29.94	760.5	30.04	763.0	53.6	12.0	81	ese.	9.7	4.3		10 cs	0			0.005	0.1	dull	S. Endo.
Kioto	29.86	758.4	30.03	762.7	64.0	17.8	71	s.	4.0	1.8		ck	10 s			0.120	3.0	cloudy	M. Tojima.
Kochi	30.03	762.7	30.05	763.3	62.5	16.9	96	e.	5.3	2.4			10 n			4.115	104.5	raining	
Nagasaki, I. M. Obs'y	29.66	753.3	29.86	758.4	63.7	17.6	96	nnw.	5.5	2.5			10 n			13.600	345.4	raining	S. Takehayashi.
Niigata	30.05	763.3	30.09	764.3	39.9	4.4	87	n.	2.7	1.2		3ck;cs	0			0	0	fair	
Nobiru	30.22	767.6	30.23	767.8	46.8	8.2	93	ne.	11.3	5.0			10 s			0.010	0.2	overcast	H. Midzushina.
Supporo					37.5	3.1	91	calm	0	0			10			0.005	0.1	covered	
Tokei Obs'y, Yeddo	30.09	764.3	30.15	765.8	56.4	13.6	95	e.	4.4	2.0			10 s			0	0	cloudy	The Staff.
Wanayama	29.97	761.2	30.02	762.5	66.7	19.3	61	sse.	3.1	1.4			10 s			0.167	4.2	cloudy	Y. Kuwamura.
MAURITIUS.																			
Mauritius Observatory	29.72	754.9	29.90	759.4	80.2	26.8	71	e.	12.0	5.4		1 cs	2 k;ks			0	0	clear	Oliver & Figon.
MEXICAN.																			
Guanajuato																			Vicente Fernandez.
Leon	24.36	618.7	29.99	761.7	61.7	16.5	69	ne.			1	10 ck	0	sW.		0	0	covered	Prof. M. Leal.
Mazatlan	29.67	753.6	29.93	760.3	66.5	19.2	95	ene.					10 n		sW.	0	0	covered	F. Quijano, U. E.
Mexico, Central Obs'y	23.07	585.9	30.12	765.1	55.2	12.9	70	calm	0	0		2 c	4 ks			0	0	⅜ clouded	The Staff.
Morelia	24.18	614.2	30.30	769.5	59.4	15.2	70	se.			3	1	1	s.	s.	0	0		M. Tena, M. D.
Pabellon, Aguascalientes	23.91	607.3	29.87	758.7	66.7	19.3	44	wsw.			1	0	9 ks		sW.	0	0	cloudy	M. Y. de Leon, M. E.
Puebla, Catholic Institute	23.40	594.3	30.09	764.3	55.4	13.0	74	calm	0	0		0	0			0	0	clear	Prof. P. Spina.
San Luis Potosi	24.16	613.7	30.06	763.4	69.8	21.1	55	ssw.			1		10		e.	0	0	covered	G. Barroeta, M. D.
Zacatecas	22.52	572.1	30.13	765.2	57.2	14.0	46	sw.	5.1	4.2		6 c	0	ne.		0	0	½ clouded	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.95	760.6	29.95	760.6	52.0	11.1		se.			2					0	0		
Groningen	29.91	759.7	29.97	761.1	46.4	8.0		s.			1					0	0		
Helder	29.94	760.4	29.94	760.4	45.1	7.3		ese.			1					0	0		
Hellevoetsluis	29.93	760.2	29.93	760.2	51.8	11.0	51	se.			1					0	0		
Utrecht	29.90	759.5	29.95	760.7	49.5	9.7	50	e.			1		5			0	0	cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.67	753.7	29.74	755.3	38.1	3.4	54	nnw	11	5			6			0.094	2.4		
Brono	30.00	762.1	30.04	763.1	28.4	— 2.0	50	ne.	9	4			2			0	0		
Christiania	29.62	752.4	29.78	756.3	29.5	— 1.4	88	nne.	13	6			10			0.047	1.2	snowing	
Gjæsvær	29.89	759.2	29.91	759.8	26.1	— 3.3		nw.			6		10						
Lodingen	30.02	762.6	30.07	763.8	30.7	— 0.7	81	calm			0		1						
PORTUGUESE.																			
Angra, Azores					60.8	16.0	81	s.	21.0	9.4			6			0.283	7.2		Dr. J. A. Sampaio.
Campo Major	29.01	736.9	30.00	762.0	65.5	18.6	54	wnw.	3.8	1.7			3			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.09	764.3	30.18	766.6	66.0	18.9	70	calm					4			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.72	755.0	30.08	764.1	61.0	16.1	63	ssw.	11.9	5.3			3			0	0		The Staff.
Ponta Delgada, Azores	29.86	758.5	29.93	760.3	62.6	17.0	67	sw.	21.0	9.4			3			0	0		
Saint Paul de Loando	29.63	752.7	29.84	757.8	81.3	27.4	77	w.	1.3	0.6			9			0	0		
Serra da Estrella	25.25	641.4	29.96	760.9	50.0	10.0	33	w.	5.6	2.5			5			0	0		
RUSSIAN.																			
Akmolinski	28.82	732.1	29.94	760.5	31.5	— 0.3	85	ssw.	7	3			10 n			0	0		Major K. Lasarew.
Archangel	29.98	761.5	30.00	762.0	21.9	— 5.6	82	wnw.	13	6		2 cs	0			0	0		Capt. Ssellwerstow.
Astrakhan	30.08	764.0	30.00	761.9	41.4	5.2	69	sse.	4	2			10 s;n			0	0		Capt. Wisganow.
Barnaul	29.70	754.4	30.22	767.6	38.1	3.4	56	calm	0	0			0			0	0		Meteorological Obs'y.
Dorpat	29.64	752.8	29.89	759.1	45.3	7.4	60	wsw.	9	4			10 k			0	0		Observatory.
Ekaterinburg	28.79	731.3	29.76	755.8	45.5	7.5	39	wsw.	13	6			9			0	0	light clouds	Meteorological Obs'y.
Kasan	29.64	752.9	29.92	760.0	38.8	3.8	40	ssw.	4	2			10			0	0		Observatory.
Kertch	29.65	753.1	29.67	753.6	43.5	6.4	79	ne.	16	7			10 n			0.532	13.5		Lagorio & Sastyrez.
Kieff	29.23	742.5	29.88	758.9	44.4	6.9	37	ne.	4	2		ck	3 ks			0	0		Observatory.
Lugan	29.63	752.7	29.84	757.9	48.0	8.9	33	nne.	9	4			8			0	0		Meteorological Obs'y
Moscow	29.32	744.6	29.80	756.9	39.6	4.2	43	nw.	4	2		0	6 ks			0	0		Meteorological Obs'y.
Nikolaiev	29.80	756.8	29.87	758.6	47.3	8.5	48	ne.	31	14		0	0			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor	30.03	762.8	30.12	765.0	22.3	— 5.4	49	calm	0	0			0			0	0		Lieut. Iwanow.
Pekin, China	29.98	761.5	30.12	765.1	56.1	13.4	36	calm	0	0			9 n			0	0		Physical Observatory
St. Petersburg	29.84	757.9	29.85	758.3	30.9	— 0.6	81	ne.	7	3			10 n			0.039	1.0	light snow	Central Physical Obs'y
Ssemipalatinsk	29.45	748.0	30.12	765.1	41.4	5.2	53	ene.	9	4		7 ck	0			0	0		Major Lasaren.
Tashkend, Laboratory	28.45	722.7	30.02	762.4	57.9	14.4	46	calm	0	0			10			0.008	0.2	light clouds	Teich, A. M.
Tiflis	28.50	723.8	29.91	759.6	55.9	13.3	53	se.	2	1			10 s			0	0		Physical Observatory
Vladivostok	30.21	767.3	30.28	769.0	42.3	5.7	58	n.	2	1			10 n			0	0		
Warsaw	29.37	746.0	29.80	756.8	48.9	9.4	52	ese.	11	5		cs	10 k					solar corona	Astronomical Obs'y
Wilna	29.51	749.5	29.93	760.2	48.4	9.1	48	e.	2	1			6			0	0		Berg, Assistant.
Yeniseisk	29.80	757.0	30.10	764.6	31.3	— 0.4	49	nw.	4	2			1			0.047	1.2		M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	29.76	756.0	29.87	758.7	62.2	16.8	53	sw.	4.3	1.9		2 c;ck	0			0	0	clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	29.98	761.6	30.04	763.1	62.6	17.0	58	nw.	2.9	1.3		3	2	se.		0	0	cloudy	Prof. Manuel de Naveran;
Burgos, Met. Obs'y	27.04	686.8	30.00	762.1	54.3	12.4	46	n.	4.9	2.2			1			0	0	almost clear	Domingo Martin.
Madrid, Royal Obs'y	27.75	704.8	29.93	760.3	65.3	18.5	57	sw.	6.9	3.1		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y	29.79	756.7	29.95	760.7	72.5	22.5	42	sse.	2.7	1.2		0	1			0	0	almost clear	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.07	738.3	29.95	760.8	62.8	17.1	61	calm	0	0			7			0.008	0.2	cloudy	R. Gil Vallanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I	29.88	758.8	29.94	760.5	71.0	21.7	87	se.	0.9	0.4		0	0			0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.81	757.2	29.87	758.6	81.5	27.5	81	ese.	2.6	1.2		5 c	2 k		e.	0.205	5.2	fair	F. Faura, S. J.
San Fernando, Naval Obs'y	30.01	762.3	30.11	764.8	63.3	17.4	68	wsw.	3.7	1.7		0	6		W.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	29.92	759.9	30.01	762.2	77.0	25.0	86	calm	0	0		2 s	2 k	se.	se.	0	0		Manuel Maeu.
Tuguegarao, Philippine Id's	29.73	755.1	29.86	758.4	80.3	26.8	80	ssw.	7.4	3.3			10 ks		sw.	0	0	covered	José L. Yrastorza.
SWEDISH																			
Haparanda	29.99	761.8	30.03	762.8	27.0	— 2.8	70	n.			2		0			0	0		
Umea	30.01	762.3	30.06	763.6	29.8	— 1.2	61	ne.			4		6			0	0		
Hernosand	30.01	762.2	30.06	763.5	28.2	— 2.1	45	nne.			6		6			0.079	2.0		
Stockholm	29.72	754.8	29.89	759.3	28.9	— 1.7	82	e.			6		10			0.008	0.2		
Wisby	29.85	758.3	29.91	759.8	40.6	4.8	74	wsw.			4		0			0	0		
Sub-series.																			
Upsala	29.82	757.5	29.91	759.7	25.7	— 3.5	83	ene.	11.4	5.1			10			0.295	7.5	snowing	S. G. Fineman.
SWISS.																			
Geneva	28.46	722.9	29.91	759.7	46.4	8.0	26	nnw.			2					0	0	cloudy	The Observatory

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
TURKISH.																			
Constantinople	.....	.....	29.55	750.5	42.6	5.9	84	n.	18	8.0	.....	.....	10	.....	n.	0.598	15.2	raining.....	The Observatory.
Valona	.....	.....	29.71	754.7	63.0	17.2	.....	sw.	.....	.....	1	.....	2	.....	.....	0	0	slightly cld'y	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	29.73	755.2	67.1	19.5	72	sw.	.....	.....	3	.....	fg.	.....	.....	0	0	foggy	Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	29.83	757.7	29.91	759.7	37	2.8	61	nw.	3	1.3	.....	6 ck	0	nw.	.....	0.01	0.3	fair.....	J. O. Barnes.
Alpena, Michigan	29.45	748.0	30.14	765.5	16	— 8.9	83	n.	12	5.4	.....	.....	10 n	.....	nw.	0.11	2.8	light snow..	Jas. J. Fitzgerald.
Atlanta, Georgia	28.74	730.0	29.93	760.2	46.2	7.9	71	nw.	13	5.8	.....	0	0	.....	.....	0	0	clear.....	H. Hall.
Atlantic City, New Jersey	29.90	759.4	29.91	759.7	30	— 1.1	68	n.	12	5.4	.....	2 k	0	w.	.....	0.09	2.3	clear.....	Jas. M. Watson.
Augusta, Georgia	29.70	754.4	29.89	759.2	59	15.0	70	ne.	4	1.8	.....	0	9 s	.....	e.	0	0	cloudy.....	John Healy.
Baltimore, Maryland	29.96	761.0	30.01	762.2	32	0.0	78	n.	6	2.7	.....	0	5 ks	.....	nw.	0.19	4.8	clearing	Robert Seyboth.
Barnegat, New Jersey	29.88	758.9	29.90	759.4	29.5	— 1.4	76	nw.	21	9.4	.....	0	3 k	.....	nw.	0.08	2.0	clear.....	Chas. F. Merritt.
Bismarck, Dakota	28.40	721.3	30.27	768.8	25	— 3.9	88	se.	18	8.0	.....	6 c	0	.....	.....	0	0	fair.....	Cyrus Cramer.
Boise City, Idaho	27.15	689.6	29.99	761.7	38	3.3	82	w.	4	1.8	.....	.....	10 s	.....	calm	0.26	6.6	cloudy	B. E. Light.
Boston, Massachusetts	29.65	753.1	29.81	757.2	32.5	0.3	78	nw.	8	3.6	.....	0	3 s	.....	w.	0.04	1.0	clear.....	O. B. Cole.
Brownsville, Texas	29.71	754.6	29.76	755.9	77	25.0	90	se.	8	3.6	.....	.....	10 s	.....	se.	0	0	cloudy	J. C. Galloway.
Buffalo, New York	29.24	742.7	30.01	762.2	21.6	— 5.8	83	sw.	8	3.6	.....	.....	10 s	.....	sw.	0.06	1.5	cloudy	Wm. Flinn.
Burlington, Vermont	29.57	751.1	29.87	758.7	27.3	— 2.6	63	calm	0	0	.....	8 ck	2 s	w.	n.	inap.	inap.	cloudy.....	G. C. Schaeffer.
Cairo, Illinois	29.75	755.6	30.16	766.1	33.8	1.0	70	n.	15	6.7	.....	1 k	0	n.	.....	0	0	clear	W. H. Clendenon.
Campo, California	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. T. Fitzgerald.
Camp Thomas, Arizona	27.11	688.6	29.84	757.9	46	7.8	56	se.	.....	.....	1	hz.	0	.....	.....	0	0	clear.....	J. E. Lanouette.
Cape Henry, Virginia	29.91	759.7	29.93	760.2	41	5.0	73	n.	14	6.3	.....	.....	10 s	.....	nw.	0.32	8.1	cloudy	W. Bolten.
Cape May, New Jersey	29.91	759.7	29.94	760.5	32	0.0	60	nw.	30	13.4	.....	2 k	0	nw.	.....	0.05	1.3	clear.....	F. W. Mixer.
Cedar Keys, Florida	29.84	757.9	29.86	758.4	74	23.3	90	w.	10	4.5	.....	0	6 ks	.....	w.	0	0	fair.....	L. A. Welsh.
Champaign, Illinois	29.36	745.7	30.20	767.1	28.0	— 2.2	77	ne.	14	6.3	.....	.....	10 s	.....	ne.	0	0	cloudy.....	J. H. Smith.
Charleston, S. Carolina	29.81	757.2	29.87	758.7	57.5	14.2	74	ne.	13	5.8	.....	0	0	.....	.....	0	0	clear.....	D. O. Donoghue.
Charlotte, N. Carolina	29.05	737.9	29.91	759.7	46.0	7.8	54	e.	8	3.6	.....	.....	10 s	.....	ne.	0	0	cloudy.....	B. L. Goulding.
Chattanooga, Tennessee	29.20	741.7	30.03	762.7	43.0	6.1	68	n.	12	5.4	.....	.....	10 ks	.....	n.	0	0	cloudy.....	E. McGovern.
Cheyenne, Wyoming	23.74	603.0	29.74	755.4	27.2	— 2.7	88	se.	4	1.8	.....	.....	10 n	.....	.....	0.17	4.3	light snow..	J. Mitchell.
Chicago, Illinois	29.48	748.8	30.21	767.3	26.0	— 3.3	92	nw.	10	4.5	.....	.....	10 n	.....	.....	inap.	inap.	light snow..	V. P. Temple.
Chincoteague, Virginia	29.91	759.7	29.93	760.2	34	1.1	61	nw.	24	10.7	.....	0	9 ks	.....	nw.	0.09	2.3	cloudy	R. B. Watkins.
Cincinnati, Ohio	29.50	749.3	30.17	766.3	30.5	— 0.8	61	se.	5	2.2	.....	6 k	0	sw.	.....	0.25	6.3	fair.....	J. B. Newlin.
Cleveland, Ohio	29.34	745.2	30.10	764.5	24.8	— 4.0	85	n.	10	4.5	.....	.....	10 n	.....	n.	0.01	0.3	light snow..	L. Dorman.
Coleman City, Texas	27.93	709.4	29.75	755.6	68	20.0	90	se.	8	3.6	.....	0	8 s	.....	s.	0.01	0.3	cloudy.....	D. Cuthbertson.
Columbus, Ohio	29.26	743.2	30.13	765.3	27	— 2.8	77	n.	5	2.2	.....	5 k	5 ks	sw.	.....	0.04	1.0	cloudy.....	W. W. McConihe.
Concho, Texas	27.69	703.3	29.63	752.6	69	20.6	90	calm	0	0	.....	0	8 k	.....	sw.	0	0	cloudy.....	R. R. Martin.
Davenport, Iowa	29.60	751.8	30.28	769.1	34	1.1	71	e.	3	1.3	.....	5 ck	sk.	ne.	e.	0	0	fair.....	H. Clifford.
Dayton, Washington T'y	28.24	717.3	29.99	761.7	34.8	1.6	76	sw.	11	4.9	.....	7 c	0	sw.	.....	0.61	15.5	fair.....	G. W. Scott.
Deadwood, Dakota	25.19	639.8	29.88	758.9	28	— 2.2	92	se.	8	3.6	.....	.....	10 n	.....	.....	inap.	inap.	light snow...	D. J. Carr.
Decatur, Texas	.....	.....	.....	.....	63	17.2	63	ne.	8	3.6	.....	.....	10 s	.....	.....	0	0	cloudy.....	A. Schneider.
Delaware Breakwater, Del	29.92	760.0	29.94	760.5	33	0.6	68	n.	32	14.3	.....	2 k	0	nw.	.....	0.07	1.8	clear.....	J. McGlone.
Denison, Texas	28.96	735.6	29.76	755.9	59.0	15.0	81	e.	2	0.9	.....	.....	10 s	.....	.....	inap.	inap.	cloudy.....	F. M. Neal.
Denver, Colorado	24.38	619.2	29.65	753.1	33.0	0.6	92	nw.	32	14.3	.....	.....	10 n	.....	nw.	0.07	1.8	light snow..	F. W. Conrad.
Des Moines, Iowa	29.33	745.0	30.26	768.6	32	0.0	68	se.	3	1.3	.....	0	7 s	.....	se.	0	0	fair.....	C. F. R. Wappenhans.
Detroit, Michigan	29.39	746.5	30.12	765.0	26.3	— 3.2	88	nw.	6	2.7	.....	0	0	.....	.....	inap.	inap.	clear.....	E. A. Thomas.
Dodge City, Kansas	27.22	691.4	29.86	758.4	35	1.7	100	e.	20	8.9	.....	.....	fg.	.....	.....	0	0	dense fog....	J. Harvey Smith.
Dubuque, Iowa	29.56	750.8	30.29	769.4	27.5	— 2.5	64	e.	4	1.8	.....	.....	10 ks	.....	ne.	0	0	cloudy.....	N. B. Conger.
Duluth, Minnesota	29.64	752.8	30.36	771.1	22	— 5.6	73	n.	6	2.7	.....	0	0	.....	.....	0	0	clear.....	F. Belford.
Eagle Pass, Texas	28.92	734.6	29.73	755.1	75.0	23.9	90	se.	2	0.9	.....	.....	10 s	.....	se.	0	0	cloudy.....	J. M. Clifford.
Eagle Rock, Idaho	25.08	637.0	29.80	756.9	32	0.0	81	sw.	12	5.4	.....	0	6 s	.....	sw.	0.35	8.9	fair.....	J. H. Melton.
Eastport, Maine	29.70	754.4	29.77	756.1	28	— 2.2	100	ne.	19	8.5	.....	.....	10 n	.....	.....	0.12	3.0	heavy snow	J. F. Marshall.
El Paso, Texas	26.06	661.9	29.80	756.9	50	10.0	36	w.	11	4.9	.....	0	0	.....	.....	0	0	clear.....	R. H. Paxton.
Erie, Pennsylvania	29.30	744.2	30.05	763.3	24	— 4.4	88	nw.	8	3.6	.....	.....	10 ks	.....	n.	inap.	inap.	cloudy.....	C. Dill.
Escanaba, Michigan	29.52	749.8	30.21	767.3	21	— 6.1	80	nw.	16	7.2	.....	.....	10 s	.....	nw.	0.06	1.5	cloudy.....	R. R. Herman.
Florence, Arizona	28.40	721.3	29.90	759.4	41.5	5.3	66	w.	2	0.9	.....	0	0	.....	.....	0	0	clear.....	W. C. Barnes.
Fort Apache, Arizona	24.90	632.4	29.82	757.4	34	1.1	75	ne.	4	1.8	.....	0	5 s	.....	calm	0	0	fair.....	B. O. Lenoir.
Fort Assinnaboine, Montana	27.05	687.1	29.95	760.7	30	— 1.1	70	ne.	18	8.0	.....	.....	10 n	.....	ne.	0.01	0.3	light snow.	T. Gibson.
Fort Bennett, Dakota	28.54	724.9	30.18	766.6	31	— 0.6	81	se.	26	11.6	.....	.....	10 s	.....	.....	0	0	cloudy.....	S. Wheaton.
Fort Benton, Montana	27.07	687.6	29.93	760.2	33	0.6	100	ne.	8	3.6	.....	.....	10 n	.....	ne.	0.15	3.8	light snow..	A. H. Bell.
Fort Buford, Dakota	28.14	714.7	30.21	767.3	28	— 2.2	67	e.	20	8.9	.....	0	0	.....	.....	0	0	clear.....	V. Verge.
Fort Custer, Montana	26.54	674.1	29.72	754.9	38	3.3	100	e.	15	6.7	.....	.....	10 n	.....	calm	0.04	1.0	light rain....	J. Williams.
Fort Davis, Texas	24.96	634.0	29.75	755.6	52	11.1	74	s.	3	1.3	.....	0	0	.....	.....	0	0	clear.....	W. J. Cundall.
Fort Elliott, Texas	27.01	686.0	29.79	756.7	40	4.4	50	e.	8	3.6	.....	.....	10 s	.....	e.	0	0	cloudy.....	J. B. Campbell.
Fort Gibson, Indian T'y	29.30	744.2	29.88	758.9	50.5	10.3	71	e.	10	4.5	.....	.....	10 s	.....	s.	0	0	cloudy.....	T. J. Macgowan.
Fort Grant, Arizona	25.11	637.8	29.84	757.9	41	5.0	26	s.	4	1.8	.....	0	0	.....	.....	0	0	clear.....	G. H. Hayne.
Fort Griffin, Texas	28.43	722.1	29.73	755.1	61	16.1	84	calm	0	0	.....	10 cs	0	sw.	.....	0.07	1.8	cloudy.....	W. B. Stockman.
Fort Keogh, Montana	27.33	694.2	29.87	758.7	33	0.6	81	se.	34	15.2	.....	.....	10 s	.....	se.	0.02	0.5	cloudy.....	L. Leonardy.
Fort Macon, North Carolina	29.88	758.9	29.89	759.2	47	8.3	86	n.	20	8.9	.....	.....	10 s	.....	n.	0.52	13.2	cloudy.....	J. E. Thatcher.
Fort McKavett, Texas	27.40	695.9	29.66	753.4	71	21.7	84	s.	8	3.6	.....	.....	10 ks	.....	s.	0	0	cloudy..	J. H. Jones.
Fort Missoula, Montana	26.54	674.1	29.85	758.2	39	3.9	82	nw.	3	1.3	.....	.....	10 s	.....	.....	0.05	1.3	cloudy.....	A. P. Leavitt.
Fort St. Michaels, Alaska	30.15	765.8	30.19	766.8	24	— 4.4	87	se.	4	1.8	.....	0	0	.....	.....	0	0	clear.....	A. L. Mathews.
Fort Shaw, Montana	26.23	666.2	29.90	759.4	29	— 1.7	88	w.	3	1.3	.....	.....	10 s	.....	.....	0.02	0.5	cloudy.....	T. Cleary.
Fort Sill, Indian Territory	28.56	725.4	29.80	756.9	45	7.2	86	n.	14	6.3	.....	10 cs	0	w.	.....	0	0	cloudy.....	W. Burrows
Fort Stevenson, Dakota	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	D. Brooks.
Fort Verde, Arizona	.....	.....	.....	.....	35.6	2.0	49	nw.	.....	.....	1	0	0	.....	.....	0	0	clear.....	T. M. Ambler.
Fort Washakie, Wyoming	24.10	612.1	.....	.....	32.2	0.1	92	w.	4	1.8	.....	7 k	0	.....	.....	inap.	inap.	fair.....	H. S. Miles.
Fredericksburg, Texas	28.00	711.2	29.72	754.9	69	20.6	97	se.	6	2.7	.....	.....	10 s	.....	.....	0	0	cloudy.....	E. O'C. MacInernev.
Galveston, Texas	29.76	755.9	29.80	756.9	75	23.9	86	s.	12	5.4	.....	5 cs	4 k	.....	se.	0	0	cloudy.....	W. A. Reid.
Grand Haven, Michigan	29.48	748.8	30.16	766.1	26.0	— 3.3	88	nw.	4	1.8	.....	.....	10 n	.....	nw.	inap.	inap.	light snow..	R. M. Crawford.
Hatteras, North Carolina	29.86	758.4	29.88	758.9	46	7.8	76	n.	30	13.4	.....	9 k	0	n.	.....	0.10	2.5	cloudy.....	N. C. Smith.
Helena, Montana	25.60	650.2	29.86	758.4	34	1.1	72	ne.	6	2.7	.....	.....	10 s	.....	.....	0.07	1.8	cloudy.....	J. W. Byram
Henrietta, Texas	28.80	731.5	29.83	757.7	52.0	11.1	80	n.	7	3.1	.....	0	3 s	.....	.....	0	0	fair.....	S. W. Glenn.
Huron, Dakota	28 84	732.5	30.29	769.4	28.2	— 2.1	84	e.	15	6.7	.....	3 cs	0	.....	.....	0	0	clear.....	O. Schutze
Indianapolis, Indiana	29.34	745.2	30.16	766.1	26	— 3.3	64	n.	8	3.6	.....	0	5 s; hz	.....	n; calm	0.14	3.6	fair.....	I. A. Reed.
Indianola, Texas	29.72	754.9	29.76	755.9	75.0	23.9	90	se.	11	4.9	.....	5 ck	3 k	sw.	s.	0	0	cloudy.....	J. P. Sherry.
Jacksboro, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. W. Smith.
Jacksonville, Florida	29.78	756.4	29.82	757.4	71	21.7	84	sw.	5	2.2	.....	2 cs	2 k	.....	sw.	0.19	4.8	fair.....	F. Z. Gosewisch
Keokuk, Iowa	29.54	750.3	30.22	767.6	29.0	— 1.7	74	ne.	3	1.3	.....	0	0	.....	.....	inap.	inap.	clear.....	L. M. Melbourne.
Key West, Florida	29.93	760.2	29.95	760.7	76.0	24.4	74	w.	3	1.3	.....	0	3 k	.....	w.	0	0	clear.....	E. A. Beals.
Kittyhawk, North Carolina	29.88	758.9	29.90	759.4	43	6.1	74	n.	36	16.1	.....	.....	10 s	.....	n.	0.49	12.4	cloudy.....	J. A. Cody.
Knoxville, Tennessee	29.00	736.6	30.04	763.0	37.3	2.9	66	n.	11	4.9	.....	.....	10 s	.....	.....	inap.	inap.	cloudy.....	S. C. Emery.
La Crosse, Wisconsin	29.50	749 3	30.30	769.6	29	— 1.7	67	n.	3	1.3	.....	0	c	.....	.....	0	0	clear.....	N. D. Lane.
La Mesilla, New Mexico	25.94	658.9	29.82	757.4	48.5	9.2	47	nw.	3	1.3	.....	0	0	.....	.....	0	0	clear.....	A. W. Browne.
Leavenworth, Kansas	29.21	741.9	30.12	765.0	34	1.1	60	e.	13	5.8	.....	6cs; ck	0	sw.	.....	0	0	fair.....	W. Blake.
Lewiston, Idaho	29.17	740.9	30.02	762.5	37.2	2.9	51	s.	1	0.4	.....	0	1 s	.....	.....	0.13	3.3	clear.....	W. U. Simmons.
Little Rock, Arkansas	29.67	753.6	29.99	761.7	50	10.0	77	ne.	13	5.8	.....	.....	10 ks	.....	e.	0	0	cloudy.....	E. F. Kubel.
Los Angeles, California	29.67	753.6	30.07	763.8	47.2	8.4	77	w.	8	3.6	.....	.....	10 s	.....	calm	0.05	1.3	cloudy.....	H. C. Smyth.
Louisville, Kentucky	29.57	751.1	30.14	765.5	31	— 0.6	57	ne.	12	5.4	.....	.....	9 s	.....	.....	inap.	inap.	cloudy.....	W. R. Bushby.
Lynchburg, Virginia	29.26	743.2	29.97	761.2	39.8	4.3	65	e.	2	0.9	.....	.....	10 s	.....	.....	0.33	8.4	cloudy.....	C. A. Shaw.
Madison, Wisconsin	29 22	742.2	30.26	768.6	22	— 5.6	73	n.	12	5.4	.....	0	0	.....	.....	inap.	inap.	clear.....	J. Gilligan.
Marquette, Michigan	29.80	749.3	30.25	768.3	22	— 5.6	73	n.	16	7.2	.....	.....	10 s	.....	nw.	0.19	4.8	cloudy.....	P. M. Wilson.
Mason, Texas	28.09	713.5	29.74	755.4	72	22.2	82	se.	8	3.6	.....	.....	10 s	.....	se.	0	0	cloudy.....	D. T. Flannery.
Memphis, Tennessee	29.72	754.9	30.06	763.5	46	7.8	68	ne.	8	3.6	.....	.....	10 s	.....	.....	0	0	cloudy.....	W. Line.
Milwaukee, Wisconsin	29.45	748.0	30.22	767.6	24	— 4.4	73	nw.	12	5.4	.....	0	1 s	.....	.....	0.01	0.3	clear.....	

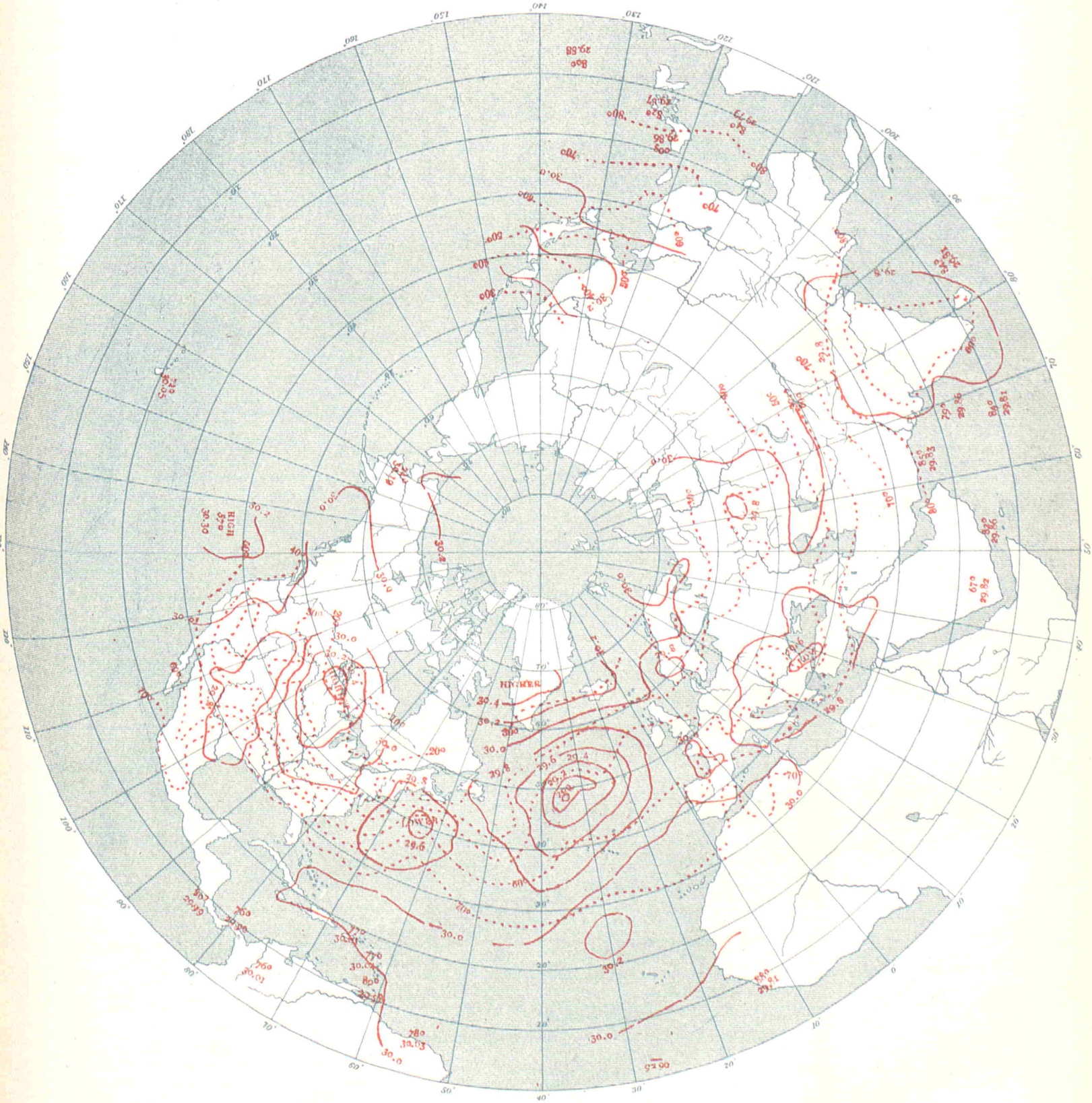
STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–01	0–10	0–10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Mobile, Alabama	29.85	758.2	29.89	759.2	64	17.8	73	n.	7	3.1	.....	3 c	0	.....	.....	0.19	4.8	clear	J. D. Paxton.
Montgomery, Alabama	29.71	754.6	29.94	760.5	57	13.9	67	n.	4	1.8	.....	1 cs	0	.....	.....	0	0	clear	J. B. McLaughlin.
Moorhead, Minnesota	29.32	744.7	30.35	770.9	25	— 3.9	88	e.	8	3.6	.....	0	0	.....	.....	0	0	clear	H. Bessant.
Morgantown, W. Virginia	29.32	744.7	30.35	770.9	26.0	— 3.3	61	n.	5	2.2	.....	hz.	3 s	.....	n.	0.33	8.4	clear	G. C. Lewis.
Mt. Washington, N. H.	29.05	737.9	30.09	764.3	9.0	—12.8	87	ne.	4	1.8	.....	.....	10 n	.....	ne.	0.10	2.5	light snow	J. G. Linsley.
Nashville, Tennessee	23.30	591.8	29.71	754.6	40.0	4.4	65	n.	9	4.0	.....	.....	10 ks	.....	n.	0	0	cloudy	L. A. Jesunofsky.
New Haven, Connecticut	29.53	750.0	30.07	763.8	26	— 3.3	76	n.	14	6.3	.....	.....	10 n	.....	.....	0.01	0.3	light snow	J. H. Sherman.
New London, Connecticut	29.74	755.4	29.86	758.4	33	0.6	68	nw.	9	4.0	.....	8 k	0	nw.	.....	0.14	3.6	cloudy	J. G. Lynch.
New Orleans, Louisiana	29.77	756.1	29.82	757.4	64	17.8	68	ne.	8	3.6	.....	3 k	7 s	ne.	ne.	inap.	inap.	cloudy	S. Dunne.
Newport, Rhode Island	29.80	756.9	29.86	758.4	64	17.8	68	ne.	2	0.9	.....	0	8 s	.....	n.	0	0	fair	W. McGillivray.
New River, N. Carolina	29.75	754.6	29.80	756.9	33.8	1.0	86	n.	7	3.1	.....	4 ok	2 ks	nw.	ne.	0.17	4.3	cloudy	C. C. Corbin.
New Shoreham, Rhode I'd	.....	.....	.....	.....	45	7.2	94	n.	.....	.....	I	.....	10 s	.....	.....	0	0	fair	W. Davis.
New York, New York	29.76	755.9	29.79	756.7	33.2	0.7	68	ne.	13	5.8	.....	2 ck	3 s	w.	ne.	0.47	11.9	fair	E. B. Garriott.
Norfolk, Virginia	29.72	754.9	29.90	759.4	28	— 2.2	77	nw.	11	4.9	.....	4 os	2 s	w.	.....	0.03	0.8	cloudy	J. T. Elker.
North Platte, Nebraska	29.90	759.4	29.94	760.5	41	5.0	73	ne.	13	5.8	.....	.....	10 ks	.....	nw.	0.33	8.4	cloudy	E. F. Brady.
Olympia, Washington T'y	29.96	685.3	29.94	760.5	32.6	0.4	86	e.	24	10.7	.....	.....	10 s	.....	.....	0.02	0.5	cloudy	J. Dascomb.
Omaha, Nebraska	30.09	764.3	30.13	765.3	33.5	0.8	83	s.	1	0.4	.....	8 ck	0	w.	.....	0	0	cloudy	A. Pollak.
Ooglaamie, Pt. Barrow, Alas.	28.99	736.3	30.20	767.1	33.0	0.6	78	e.	8	3.6	.....	8 c	sk.	sw.	.....	0	0	clear	P. H. Ray.
Oswego, New York	30.19	766.8	30.21	767.3	—10.6	—23.7	76	se.	6	2.7	.....	0	1 s	.....	.....	0	0	clear	S. W. Beall.
Palestine, Texas	29.60	751.8	29.94	760.5	26.0	— 3.3	76	nw.	11	4.9	.....	.....	10 n	.....	nw.	0.02	0.5	light snow	L. M. Pindell.
Pensacola, Florida	29.25	742.9	29.81	757.2	70.5	21.4	90	sw.	5	2.2	.....	.....	10 s	.....	s.	inap.	inap.	cloudy	L. M. Pindell.
Philadelphia, Pa	29.86	758.4	29.89	759.2	66.1	18.9	78	n.	4	1.8	.....	3 c	0	w.	.....	0.03	c.8	clear	M. McGauran.
Pike's Peak, Colorado	29.86	758.4	29.96	761.0	29	— 1.7	56	nw.	15	6.7	.....	4 k	0	nw.	.....	0.02	0.5	fair	T. F. Townsend.
Ploche, Nevada	17.30	439.4	29.58	751.3	9	—12.8	100	sw.	14	6.3	.....	.....	10 n	.....	sw.	0.08	2.0	heavy snow	L. M. Dey.
Pittsburg, Pennsylvania	23.93	607.8	29.92	760.0	25	— 3.9	67	nw.	1	0.4	.....	2 k	0	nw.	.....	0.06	1.5	clear	C. N. Kitchel.
Port Eads, Louisiana	29.24	742.7	30.07	763.8	25.5	— 3.6	67	n.	7	3.1	.....	7 k	0	nw.	.....	0.01	0.3	fair	C. N. Kitchel.
Port Huron, Michigan	29.86	758.4	29.88	758.9	72.1	22.3	98	s.	.....	.....	.....	0	0	.....	.....	inap.	inap.	clear	H. G. Christian.
Portland, Maine	29.36	745.7	30.06	763.5	23.0	— 5.0	88	w.	12	5.4	.....	10 cs	0	.....	.....	0.05	1.3	cloudy	W. O. Bailey.
Portland, Oregon	29.73	755.1	29.78	756.4	34.0	1.1	72	n.	4	1.8	.....	1 ck	0	calm	.....	0	0	clear	D. C. Murphy.
Portsmouth, N. Carolina	30.07	763.8	30.14	765.5	38.0	3.3	82	calm	0	0	.....	4 k	4 s	sw.	s.	inap.	inap.	cloudy	M. L. Hearne.
Prescott, Arizona	.....	.....	.....	.....	42	5.6	65	n.	24	10.7	.....	3 k	6 ks	ne.	nw.	1.49	37.8	cloudy	F. P. Chaffee.
Provincetown, Mass.	24.62	625.3	29.84	757.9	24	— 4.4	44	s.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. Mc N. Wright.
Punta Rassa, Florida	29.74	755.4	29.77	756.1	32	0.0	78	ne.	13	5.8	.....	.....	10 s	.....	ne.	0.43	10.9	cloudy	P. T. Jenkins.
Red Bluff, California	29.89	759.2	29.90	759.4	76	24.4	84	sw.	14	6.3	.....	1 c	4 ks	calm	sw.	0	0	fair	W. J. Evans.
Rio Grande City, Texas	29.45	748.9	29.69	754.1	74	23.3	97	calm	0	0	.....	2 k	0	sw.	.....	0.01	0.3	clear	J. M. Frantz.
Rochester, New York	29.28	743.7	29.98	761.5	22	— 5.6	88	w.	12	5.4	.....	.....	10 s	.....	se.	0	0	cloudy	W. H. Taylor.
Roseburg, Oregon	29.62	752.3	30.18	766.6	38.5	3.6	86	calm	0	0	.....	.....	10n;fg	.....	w.	0.06	1.5	light snow	A. T. Sherwood.
Sacramento, California	30.00	762.0	30.08	764.0	42.9	6.1	93	se.	2	0.9	.....	.....	10 s	.....	sw.	0.06	1.5	cloudy	J. J. Nanry.
St. Louis, Missouri	29.59	751.6	30.20	767.1	29.7	— 1.3	78	e.	14	6.3	.....	.....	fg.	.....	.....	0.02	0.5	light fog	J. A. Barwick.
St. Paul, Minnesota	29.44	747.8	30.33	770.4	27.0	— 2.8	88	ne.	3	1.3	.....	0	0	.....	.....	0	0	cloudy	J. H. Webber.
St. Vincent, Minnesota	29.57	751.1	30.48	774.2	13	—10.6	70	ne.	3	1.3	.....	0	0	.....	.....	0	0	clear	P. F. Lyons.
Salt Lake City, Utah	25.47	646.9	29.84	757.9	39	3.9	65	calm	0	0	.....	.....	10 s	.....	.....	0	0	clear	G. Kingsbury.
San Antonio, Texas	29.03	737 3	29.73	755.1	73.0	22.8	100	se.	4	1.8	.....	.....	10 s	.....	.....	0.02	0.5	cloudy	J. Craig.
San Diego, California	29.94	760.5	30.01	762.2	47.8	8.8	83	e.	5	2.2	.....	1 k	0	.....	calm	0	0	cloudy	E. Lane.
Sandusky, Ohio	29.41	747.0	30.11	764.8	26	— 3.3	77	nw.	14	6.3	.....	.....	10 s	w.	.....	0.12	3.0	clear	A. C. Dobbins.
Sandy Hook, New Jersey	29.87	758.7	29.91	759.7	29.5	— 1.4	77	nw.	26	11.6	.....	8 k	0	n.	.....	0.02	0.5	cloudy	M. H. Perry.
San Francisco, California	30.02	762.5	30.09	764.3	46	7.8	83	sw.	5	2.2	.....	0	0	nw.	.....	0.04	1.0	cloudy	B. A. Blundon.
Santa Fé, New Mexico	23.03	585.0	29.79	756.7	33	0.6	41	sw.	13	5.8	.....	0	0	.....	.....	0	0	clear	N. Gorom.
Savannah, Georgia	29.76	755.9	29.85	758.2	64	17.8	70	ne.	11	4.9	.....	0	0	.....	.....	0	0	clear	H. U. Jones.
Shreveport, Louisiana	29.63	752.6	29.87	758.7	64	17.8	68	ne.	8	3.6	.....	3 k	7 s	ne.	ne.	inap.	inap.	clear	H. W. Ford.
Silver City, New Mexico	24.05	610.9	29.73	755.1	40	4.4	46	nw.	10	4.5	.....	0	0	.....	.....	0	0	threatening	E. N. Meekins.
Sitka, Alaska	29.81	757.2	30.88	758.9	32	0.0	68	calm	0	0	.....	0	5 ks	.....	sw.	0.04	1.0	clear	J. B. Wallace.
Smithville, North Carolina	29.85	758.2	29.89	759.2	48	8.9	86	ne.	10	4.5	.....	.....	10 s	.....	ne.	0	0	fair	J. J. McLean.
Spokane Falls, Wash. Ter.	27.87	707.9	29.93	760.2	34	1.1	81	sw.	5	2.2	.....	0	0	.....	.....	0	0	cloudy	O. Parker.
Springfield, Illinois	29.54	750.3	30.24	768.1	29	— 1.7	77	ne.	10	4.5	.....	0	0	.....	.....	0.24	6.1	clear	D. Moore.
Springfield, Massachusetts	29.73	755.1	29.86	758.4	29.9	— 1.2	67	n.	10	4.5	.....	10 c	0	nw.	.....	inap.	inap.	clear	T. B. Jennings.
Springfield, Mo	28.59	726.2	30.11	764.8	36	2.2	79	e.	15	6.7	.....	.....	10 s	.....	ne.	inap.	inap.	cloudy	T. S. Outram.
Stockton, Texas	26.75	679.4	29.78	756.4	52.0	11.1	38	calm	0	0	.....	0	0	.....	.....	0	0	cloudy	J. B. Marbury.
Thatcher's Island, Mass.	29.76	755.9	29.81	757.2	36.3	2.4	70	nw.	13	5.8	.....	0	0	.....	.....	0	0	clear	J. O'Dowd.
Toledo, Ohio	29.42	747.3	30.13	765.3	24.5	— 4.2	52	w.	4	1.8	.....	0	0	.....	.....	inap.	inap.	clear	G. Liebmann.
Tucson, Arizona	27.47	697.7	29.86	758.4	46	7.8	76	s.	4	1.8	.....	0	6 k	.....	w.	0	0	fair	A. Buell.
Umatilla, Oregon	29.71	754.6	30.08	764.0	41.3	5.2	53	sw.	17	7.6	.....	7 cs	0	.....	.....	0	0	clear	J. L. Whiteside.
Uvalde, Texas	28 75	730.2	29.72	754.9	73	22.8	97	se.	3	1.3	.....	.....	3 s	w.	w.	0	0	cloudy	J. Daly.
Vicksburg, Mississippi	29.65	753.1	29.91	759.7	60	15.6	65	ne.	6	2.7	.....	0	10 s	.....	se.	0	0	cloudy	E. C. Imlay.
Visalia, California	29.68	753.9	30.05	763.3	42.5	5.8	75	nw.	4	1.8	.....	0	9 s	.....	calm	0	0	cloudy	T. J. Kenan.
Washington, D. C.	29.90	759.4	30.02	762.5	31	— 0.6	68	nw.	8	3.6	.....	1 k	0	nw.	.....	0.22	5.6	clear	J. T. Cochran.
West Las Animas, Colorado	25.67	652.0	29.63	752.6	40	4.4	92	e.	36	16.1	.....	.....	10 s	.....	e.	0.25	6.3	clear	B. M. Purssell.
Wickenburg, Arizona	.....	.....	.....	.....	38	3.3	74	calm	.....	.....	0	1 c	0	nw.	.....	0	0	threatening	J. Grover.
Williamsport, Pa	29.37	746.0	29.98	761.5	25	— 3.9	80	nw.	12	5.4	.....	.....	10 ks	.....	n.	0	0	clear	H. A. Kremp.
Wilmington, N. Carolina	29.84	757.9	29.90	759.4	49	9.4	70	ne.	10	4.5	.....	.....	10 s	.....	ne.	0	0	cloudy	B. F. Hough.
Winnemucca, Nevada	25.54	648.7	29.94	760.5	28	— 2.2	77	sw.	7	3.1	.....	0	0	.....	.....	0.02	0.5	cloudy	E. W. McCann.
Yankton, Dakota	28 91	734.3	30.25	768.3	30	— 1.1	68	e.	17	7.6	.....	0	0	.....	.....	0	0	clear	J. R. Williams.
Yuma, Arizona	29.76	755.9	29.91	759.7	47.3	8.5	70	e.	2	0.9	.....	0	1 s	.....	.....	0	0	clear	J. H. Atfield.
Sub-sertes.																			O. D. Stewart.
Bogota, U. S. Columbia	22.03	559.6	.....	.....	55.5	13.1	85	n.	1.2	0.5	.....	.....	10 s	.....	.....	0.13	3.3	cloudy	Joaquin Gomez.
Bridgetown, Barbados, W.I.	29.98	761.5	29.99	761.7	80	26.7	82	e.	.....	.....	.....	5 k	5 ks	e.	e.	0	0	fair	J. A. Racker.
Buenaventura, U. S. C.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. I. Plume.
Guadeloupe, W. I.	29.92	760.0	29.94	760.5	77	25.0	87	se.	.....	.....	.....	2 k	3 ks	.....	.....	0.709	18.0	.....	B. Bigar.
Havana, Cuba, W. I.	29.94	760.5	29.99	761.7	75	23.9	96	se.	1.2	0.5	.....	0	1 ks	.....	calm	0	0	clear	A. Van Caneghem.
Kingston, Jamaica, W. I.	29.99	761.7	30.00	762.0	76.7	24.8	86	se.	1	0.4	.....	1 cs	2 s	e.	e.	0	0	fair	Robert Johnston.
Navassa, W. I.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	F. M. Everett.
Paramaribo, S. A.	30.02	762 5	30.03	762.7	78	25.6	86	ne.	.....	.....	2	5 ck	4 k	e.	e.	0	0	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.55	750.6	30.01	762.2	76	24.4	84	calm	.....	.....	0	.....	10 s	.....	calm	0.06	1.5	cloudy	Miss Flora A. Nichols.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	.....	.....	94	se.	.....	.....	1	5 cs	4 ks	.....	se.	0	0	cloudy	Earl Flint.
Santiago de Cuba, W. I.	29.97	761.2	30.00	762.0	77	25.0	86	calm	0	0	.....	3 cs	2 s	.....	.....	1.20	30.5	fair	Robert Mason.
York Factory, B. A.	29.91	759.7	29.96	761.0	8.0	—13.3	89	s.	14	6.3	.....	1 c	1 s	se.	se.	0	0	fair	W. Wood.

STATIONS AND VESSELS.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
BRITISH NAVAL.																		
H. M. S. Agincourt, N. 41° 25′, W. 9° 50′	30.08	764.0	60	15.6	100	calm			c		3	sse.				3	wsw.	d. clouds.
H. M. S. Alert, Mahi, Seychelles Islands	29.82	757.4	86.5	30.3	70	s.			2		6							d. clouds.
H. M. S. Alexandra, Malta Mediterranean	29.84	757.9	61.5	16.4	68	wsw.			4–5		7	wsw.						squally.
H. M. S. Bacchante, Jaffa, Palestine	29.87	758.7	69	20.6	79	w.			3		5	sw.						d clouds.
H. M. S. Cleopatra, N. 8° 28′, E. 68° 30′	29.81	757.2	83.5	28.6	83	calm			0		4	calm						d. clouds.
H. M. S. Comus, Pelew Island, Oceania	29.88	758.9	80	26.7	95	ene.			1–2		3	ne.						d. clouds.
H. M. S. Diamond, S. 34° 48′, E. 138° 26′	30.01	762.2	63	17.2	88	sw.			2–3		4							d. clouds.
H. M. S. Dido, N. 17° 00′, W. 61° 45′	30.05	763.3	77	25.0		e.			1–3		4	ne.						squally.
H. M. S. Dryad, N. 24° 47′, E. 67° 00′	29.71	754.6				wsw.			3–4		1	sw.				2	wsw.	blue sky.
H. M. S. Eclipse, S 15° 02′, E. 40° 48′			83	28.3	95	ese.			1		2							d. clouds.
H. M. S. Fawn, N. 15° 06′ E. 42° 07′	29.74	755.4	84	28.9	59	ssw.			4		1					3	ssw.	blue sky.
H. M. S. Gannet, S. 33° 01′, W. 71° 37′	30.00	762.0	58	14.4	87	calm			0		0							misty.
H. M. S. Garnet, Montevideo, Uruguay	29.83	757.7	67	19.4	90	calm			0		10							overcast.
H. M. S. Inconstant, S. 30° 00′, E. 33° 00′	29.98	761.5	76	24.4	95	sw.			3		7	sw.				2	wsw.	d. clouds.
H. M. S. Iron Duke, N. 22° 16′ E. 114° 10′	29.84	757.9	74	23.3	95	sw.			1		6	sw.						d clouds.
H. M. S. Lark, S. 10° 51′, E. 162° 26′	29.93	760.2	84.3	29.1		calm			0		2							d. clouds.
H. M. S. Liffey, Coquimbo, Chili	30.02	762.5	60	15.6		n.			1		6							d. clouds.
H. M. S. Magpie, N. 34° 41′, E. 135° 12′	30.02	762.5	63.5	17.5	89	calm			0		10							misty.
H. M. S. Malabar, N 13° 47′ E. 50° 39′	29.86	758.4	82	27.8	87	se.			1		0					1	se.	blue sky.
H. M. S. Nelson, Sydney, N. S. W.	29.85	758.2	69	20.6	90	n.			2		2	e.						d. clouds.
H. M. S. Northampton, Bermuda, W. I.	29.77	756.1	70	21.1	92	ssw.			6		6	wsw.						d. clouds.
H. M. S. Pegasus, N. 11° 38′, E. 112° 48′	29.79	756.7	84	28.9	79	wnw.			2		10	se.				4	ne.	d. clouds.
H. M. S. Rambler, St. Paul de Loando, Benguela	29.81	757.2	79	26.1	100	wsw.			1		10							d. clouds.
H. M. S. Rocket, Esquimalt, Vancouver Id., B. C.	30.06	763.5	40	4.4		wsw.			3		2							d. clouds.
H. M. S. Serapis, N. 17° 35′ E. 67° 00′	29.86	758.4	79	26.1	61	ne.			2		0							blue sky.
H. M. S. Superb, N. 38° 40′, E. 18° 15′*	29.75	755.6	60	15.6	66	sw.			2		2	ssw.				1	wsw.	d. clouds.
H. M. S. Triumph, Valparaiso, Chili	29.99	761.7	59	15.0	87	calm			0		2	calm						d. clouds.
H. M. S. Tyne, N. 6° 40′, E. 81° 23′	29.81	757.2	84	28.9	79	s.			1		4	n.				2	s.	d. clouds.
H. M. S. Woodlark, N. 22° 37′, E. 60° 52′	29.83	757.7	84.5	29.2	79	wnw.			1		1	w.				2	nw.	misty.
PORTUGUESE NAVAL.																		
Rio Lima, N. 14° 02′ W. 21° 35′	30.04	763.0	76.1	24.5	88	ne.			4		3		ne.			4	ne.	d. clouds.
Tamega, Macao, China	29.82	757.4	75.2	24.0	87	s.			3		10					2	s.	d. clouds.
UNITED STATES NAVAL.																		
Navy Yard. Pensacola, Fla	29.83	757.7	69	20.6	65	nne.	5	2.2			0			0	0			clear.
N. Yard, Portsmouth, N. H.	29.80	750.9	29	— 1.7	?	n.	2	0.9			2		nw.	0	0			fair.
Naval Hospital, Yokohama, Japan	29.94	760.5	57	13.9	87	calm			0		0			0	0			clear.
Adams, Panama, Panama	29.69	754.1	77	25.0	95	nw.			1		0			0	0	sm'h		clear.
Alaska, S. 7° 16′, W. 81° 33′	29.97	761.2	70	21.1	90	s.			2		5		s.	0	0	sm'h		fair.
Alert, Kobe Japan*	29.88	758.9	64	17.8	83	sw.			1		10		calm	0	0	sm'h		cloudy.
Alliance, N. 20° 45′, W. 84° 40′	29.89	759.2	81	27.2	83	nne.			1		2			0	0	sm'h		clear.
Ashuelot, N. 33° 53′, E. 132° 38′	29.99	761.7	54	12.2	100	ne.			2		10		calm					rainy.
Brooklyn, Montevideo, Uruguay	29.82	757.4	66	18.9	94	e.	4	1.8			10		e.	0	0	sm'h		cloudy.
Colorado, New York, N. Y.	29.85	758.2	30	— 1.1	89	nw.	18	8.0			8		calm	0.03	0.8			cloudy.
Enterprise, N. 16° 13′, W. 75° 19′*	29.94	760.5	78	25.6	82	ne.			1		2					sm'h		clear.
Essex, S. 0° 40′, W. 13° 03′	29.88	758.9	81	27.2	83	s.			3		2							clear.
Franklin, Norfolk, Va	29.93	760.2	42	5.6	74	nne.	20	8.9			10		ne.	0.36	9.1	long	se.	cloudy.
Galena, Leghorn, Italy	29.74	755.4	57	13.9	58	nw.			1		2					sm'h		fair.
Independence, Mare Island, Cal.	29.94	760.5	47	8.3	85	w.			2		0			0	0			clear.
Kearsarge, Samana, Bay, Hayti, W. I.	30.03	762.7	75	23.9	90	calm			0		0					sm'h		clear.
Lackawana, Callao, Peru*	29.91	759.7	65	18.3	89	s.			0–1		10							misty.
Lancaster, Leghorn, Italy*	29.72	754.9	55	12.8	45	wnw.			2		0			0	0			clear.
Marion, S. 31° 03′, E. 12° 23′	30.04	763.0	70	21.1	85	s.			2		2		calm	0	0	long	ssw.	clear.
Michigan, Erie, Pa	29.94	760.5	25	— 3.9	87	nw.			3		10		nw.					cloudy.
Minnesota, Newport, R. I.	29.80	756.9	35	1.7	80	n.	8	3.6			10		n.					cloudy.
Monocacy, Kobe, Japan	30.04	763.0	64	17.8	89	wsw.			1		10		calm					cloudy.
New Hampshire, Newport, R. I.	29.77	756.1	35	1.7	90	nne.			4		8					sm'h		fair
Nipsic, Barcelona, Spain	29.91	759.7	61	16.1	61	ssw.			4		2		sw.			sm'h		d. clouds.
Onward, Callao, Peru†	30.08	764.0	63	17.2	94	se.			1		10		n.			long	w.	cloudy.
Palos, Kobe, Japan	30.04	763.0	62	16.7	88	wsw.			1		10		sw.					overcast.
Passaic, Washington, D. C.	30.04	763.0	32	0.0	100	nw.			3		2		nw.					fair.
Pensacola, Callao, Peru	30.00	762.0	64	17.8	94	se.					10							hazy.
Powhatan, N. 15° 19′ W. 73° 21′	29.96	761.0	78	25.6	86	ese.	1	0.4			2			0	0	sm'h		fair.
Portsmouth, N. 40° 12′, W. 72° 43′	29.82	757.4	33	0.6	100	nw.			3		5		e.			sm'h		stormy.
Quinnebaug, Leghorn, Italy	29.74	755.4	54	12.2	49	nw.			5		10		nw.			rg'h	n.	clear.
Ranger, Acapulco, Mexico*	29.87	758.7	78	25.6	82	calm			3		2		calm	0	0	sm'h		clear.
Richmond, Kobe, Japan*	29.96	761.0	64	17.8	89	calm			0		2		calm	0	0	sm'h		clear.
Shenandoah, N. 9° 50′ W. 79° 13′*	29.98	761.5	78	25.6	91	nnw.			0		10		calm	0	0			cloudy.
St. Louis, League Island, Pa.	30.18	766.6	28	— 2.2	78	nw.			2		10					sm'h		cloudy.
Swatara, Kobe, Japan*	29.87	758.7	65	18.3	78	calm	20	8.9			0			0.02	0.5			clear.
Tennessee, Port Royal, S. C.	29.87	758.7	65	18.3	94	nne.			0		10		calm			sm'h		cloudy.
Vandalia, Port Royal, S. C†	30.08	764.0	62	16.7	83	ene.	11	4.9			2			0	0			fair.
Wabash, Boston, Mass.	29.81	757.2	34	1.1		n.			4		2		calm					clear.
Wachusetts, Sitka, Alaska	29.84	757.9	34	1.1	90	calm	2	0.9			5		n.	0	0			fair.
Wyoming, Port Royal, S. C.	29.83	757.7	59	15.0	76	ne.			0		8?		calm					clear.?
Yantic, Port Royal S. C*	29.82	757.4	62	16.7	77	ne.	16	7.2			2		calm	0	0			clear.
									2		2							fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Circassian, N. 43° 10′, W. 67° 15′	29.88	758.9	31	— 0.6	.....	nne.	.....	.....	5	.....	10	.....	n.	8 h'r	8 h'r	3	ne.	snowing.
S. S. Polynesian, Liverpool, England*	29.70	754.4	57	13.9	.....	w.	.....	.....	1	.....	2?	.....	w.	0	0	.....	.....	gloomy.?
AMERICAN STEAMSHIP COMPANY.																		
S. S. Illinois, Philadelphia, Pa.	29.82	757.4	30	—1.1	89	nnw.	.....	.....	4	.....	2	.....	w.	.....	.....	.....	.....	clear.
S. S. Indiana, N. 44° 27′, W. 39° 56′†	29.52	749.8	51	10.6	86	n.	.....	.....	6	.....	8	.....	n.	light	light	h'vy	con.	cloudy.
S. S. Ohio, N. 41° 39′, W. 45° 17′†	29.76	755.9	45	7.2	92	nnw.	.....	.....	4	.....	9	.....	n.	.....	.....	r'gh	nnw.	cloudy.
ANCHOR LINE.																		
S. S. Ethiopia, N. 50° 12′, W. 31° 49′	29.14	740.1	53	11.7	96	ne.	.....	.....	8	.....	8	.....	ene.	6 h'r	6 h'r	h'vy	ene.	overcast.
S. S. Galatia, London, Eng†	29.95	760.7	.....	.....	.....	nnw.	.....	.....	6	.....	4?	.....	nw.	3 h'r	3 h'r	.....	.....	cloudy ?
S. S. India, N. 36° 16′, E. 14° 10′*	29.78	756.4	59	15.0	88	wnw.	.....	.....	6	.....	2	.....		.....	.....	.....	.....	fair.
ATLAS LINE.																		
S. S. Alvo, Savanilla, U. S. C.	30.11	764.8	.....	.....	.....	nne.	.....	.....	3	.....	2	.....	n.	0	0	.....	.....	fair.
S. S. Arden, N. 10° 40′ W 71° 38′	.....	.....	.....	.....	.....	calm	.....	.....	0	.....	.....	.....	ne.	.....	.....	.....	.....	showery.
S. S. Athos, Kingston, Jamaica, W. I.	29.62	752.3	.....	.....	.....	e.	.....	.....	1	.....	2	.....	ene.	0	0	sm'h	.....	clear.
S. S. Claribel, N. 28° 04′, W 73° 56′*†	29.98	761.5	74	23.3	95	sw.	.....	.....	3	.....	8	.....	sw.	0	0	long	sw.	cloudy.
BOSTON AND HALIFAX LINE.																		
S. S. Carroll, Boston, Mass†	29.91	759.7	30	—1.1	80	nnw.	.....	.....	3	.....	.....	.....	.....	0	0	.....	.....	fine.
BRITISH METEOROLOGICAL OFFICE.																		
Bk. Arran, S 4° 28′. W. 24° 29′	29.93	760.2	84	28.9	68	se.	.....	.....	3	.....	4	.....	.....	.....	.....	.....	.....	d. clouds.
S. Baroda, N. 2° 27′, E. 83° 31′	29.82	757.4	86.4	30.2	82	s.	.....	.....	2	.....	9	.....	.....	.....	.....	.....	.....	d. clouds.
British Merchant, S. 4° 10′, E. 88° 05′	29.80	756.9	84.8	29.3	81	w.	.....	.....	2	.....	5	.....	.....	.....	.....	.....	.....	showery.
Bk. Caldew, N. 49° 16′, W. 10° 40′	29.88	758.9	54.7	12.6	.....	sse.	.....	.....	4	.....	10	.....	.....	.....	.....	.....	.....	overcast.
CUNARD LINE																		
S. S. Bothnia, N. 47° 57′, W. 33°, 54′	28.88	733.5	.....	.....	.....	ne.	.....	.....	6	.....	10	.....	n.	2 h'r	2 h'r	con.	n.	threatening.
S. S. Scythia, N. 40° 37′, W. 70° 15′	.....	.....	41	5.0	91	nnw.	.....	.....	5	.....	10	.....	n.	9 h'r	9 h'r	mod.	n.	overcast.
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. Canada, N. 40° 10′, W. 35° 10′	29.10?	739.2?	50.0	10.0	.....	sw.	.....	.....	4	.....	10	.....	sw.	3 h'r	3 h'r	.....	sw.	cloudy.
GUION LINE.																		
S. S. Arizona, N. 50° 10′, W. 23° 45′	29.40	746.7	50	10.0	.....	ese.	.....	.....	7	.....	10	.....	se.	12 h'r	12 h'r	r'gh	ese.	overcast.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Gellert, N. 49° 39′, W. 24° 46′	29.33	745.0	56	13.3	.....	s.	.....	.....	6	.....	8	.....	s.	4 h'r	4 h'r	r'gh	s.	raining.
S. S. Lessing, New York, N. Y.	29.89	759.1	30	—1.1	.....	nnw.	.....	.....	1	.....	8	.....	nnw.	0	0	.....	.....	cloudy.
S. S. Silesia, N. 42° 25′, W. 48° 23*†	29.84	757.9	33.3	0.7	.....	nw.	.....	.....	5	.....	2	.....	nw.	0	0	4	nw.	fair.
INMAN LINE.																		
S. S. City of New York, N. 48° 19′ W. 33° 25′	29.07	738.4	.....	.....	.....	ne.	.....	.....	5	.....	9	.....	ne.	24 h'r	24 h'r	cross	nw.	cloudy.
JOHNSTON LINE.																		
S. S. Thanemore, N. 37° 54′, W. 70° 46′	29.85	758.2	.....	.....	.....	nnw.	.....	.....	6	.....	5?	.....	n.	0	0	.....	.....	clear.?
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, N. 42° —′, W. 13° —′*†	30.10	764.5	62	16.7	.....	w.	.....	.....	2	.....	5	.....	w.	1 h'r	1 h'r	long	nw.	fine.
S. S. Humboldt. N. 23° 42′ W. 22° 26′.*	30.13	765.3	67.5	19.7	74	ene.	.....	.....	4	.....	4	.....	.....	0	0	3	con.	d. clouds.
MALLORY LINE.																		
S. S. Colorado, Galveston, Texas†	29.75	755.6	73	22.8	.....	s.	.....	.....	3	.....	9	.....	s.	0	0	.....	.....	clear.?
MERCHANTS' EXPRESS LINE.																		
S. S. Hermod, N. 43° 18′, W. 50° 40′*†	29.58	751.3	32	0.0	.....	n.	.....	.....	4	.....	2	.....	nw.	0	0	long	sw.	clear.
NATIONAL LINE.																		
S. S. Canada, N. 43° 45′, W. 39° 03′†	29.70	754.4	53	11.7	.....	var.	.....	.....	2	.....	4	.....	e.	0	0	cross	.....	fine.
S. S. England, Liverpool, Eng.	29.91	759.7	.....	.....	.....	se.	.....	.....	2	.....	8	.....	.....	0	0	.....	.....	cloudy.
S. S. Erin, London, England	29.86	758.4	62	16.7	.....	var.	.....	.....	1	.....	0	.....	.....	0	0	.....	.....	hazy.
S. S. Helvetia, N. 41° 04′, W. 63° 59′	.....	.....	53	11.7	.....	wsw.	.....	.....	3	.....	2	.....	sw.	h'vy	h'vy	high	e.	clear.
S. S. Holland, N. 48° 36′ W. 19° 48′	29.52	749.8	52	11.1	.....	sse.	.....	.....	6	.....	10	.....	se.	9 h'r	9 h'r	mod.	sse.	raining.
S. S. Italy, N. 47° 32′ W. 37° 00′	29.42	747.3	.....	.....	.....	nnw.	.....	.....	6	.....	5	.....	nw.	2 h'r	2 h'r	con.	var.	clear.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Niagara, Havana, Cuba, W. I †	29.98	761.5	72	22.2	.....	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	.....	clear.
S. S. Santiago, N. 20° 07′, W. 78° 38′ †	29.97	761.2	78	25.6	.....	sw.	.....	.....	5	.....	1	.....	.....	0	0	sm'h	.....	fine.
NEW YORK, HAVANA AND MEXICAN MAIL.																		
S. S City of Alexandria, N. 22° 14′, W. 87° 20′*†	30.01	762.2	77	25.0	.....	se.	.....	.....	1	.....	2	.....	se.	0	0	sm'h	.....	clear.
S. S. City of Puebla, N. 23° 09′, W. 82° 21′	29.87	758.7	71	21.7	.....	ne.	.....	.....	1	.....	0	.....	.....	.....	.....	.....	.....	
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Atlas, Les Cayes, Hayti, W. I.*†	30.10	764.5	74	23.3	.....	calm	.....	.....	0	.....	.....	.....	.....	.....	.....	sm'h	.....	clear.
S. S. City of Washington, N. 34° 25′, W. 75° 35′*†	29.85	758.2	55	12.8	.....	n.	.....	.....	4	.....	.....	.....	.....	.....	.....	.....	ssw.	cloudy.
S. S. Lepanto, N. 40° 57′ W. 64° 00′*	29.55	750.6	42	5.6	.....	nw.	.....	.....	5	.....	.....	.....	.....	.....	.....	.....	se.	cloudy.
S. S. New York, N. 32° 45′, W. 78° 50′*†	30.00	762.0	60	15.6	.....	ne.	.....	.....	3	.....	.....	.....	.....	.....	.....	.....	ne.	cloudy.
S. S. P. Caland, N. 44° 29′, W. 45° 23′	29.72	754.9	39.2	4.0	.....	nw.	.....	.....	5	.....	.....	.....	.....	.....	.....	4	nw.	misty.
NORTH GERMAN LLOYD																		
S. S. Graf Bismarck, N. 32° 20′, W. 13° 36′	30.24	768.1	68.0	20.0	.....	ne.	.....	.....	3	.....	3	.....	ne.	0	0	sm'h	n.	fair.
S. S. Hermann, N. 47° 15′, W. 30° 54′†	29.49	749.0	48.2	9.0	.....	sw.	.....	.....	6	.....	8	.....	wsw.	8 h'r	8 h'r	h'vy	wsw.	hazy.
S. S Koln, N. 40° 07′, W. 64° 42′*	29.59	751.6	54.0	12.2	90	wnw.	.....	.....	5	.....	10	.....	wnw.	12 h'r	12 h'r	.....	ene.	heavy rain.
S. S. Leipzig, N. 40° 07′, W. 57° 16′	29.83	757.7	57.8	14.3	88	ene.	.....	.....	6	.....	10	.....	e.	4 h'r	4 h'r	cross	e.	cloudy.
S. S. Neckar, N. 40° 56′ W 58° 12′	29.77	756.1	53.6	12.0	.....	e.	.....	.....	6	.....	8	.....	se.	8 h'r	8 h'r	r'gh	ese.	drizzling.
S. S. Oder, Southampton, Eng.	29 86	758.4	57.2	14.0	.....	w	.....	.....	3	.....	2	.....	sw.	0	0	.....	.....	fair.
S. S. Ohio, Baltimore, Md.	30.03	762.7	.....	.....	.....	nne.	.....	.....	3	.....	4	.....	nnw.	10 h'r	10 h'r	.....	.....	fair.
S. S. Rhein, N. 40° 24′, W. 68° 29′	29.69	754.1	.....	.....	.....	se.	.....	.....	1–2	.....	5	.....	se.	3 h'r	3 h'r	mod.	e.	fair.
S. S. Salier, N 47° 52′, W. 32° 51′	28.98	736.1	49.1	9.5	.....	ne.	.....	.....	6	.....	10	.....	ne.	10 h'r	10 h'r	h'vy	var.	heavy rain.
S. S. Strassburg, N. 40° 57′, W. 62° 40′	29.49	749.0	58.0	14.4	94	e.	.....	.....	3–5	.....	8	.....	e.	11 h'r	11 h'r	mod.	e.	cloudy.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Belgic, San Francisco, Cal.†	30.02	762.5	46	7.8	77	sw.	.....	.....	2	.....	0	.....	.....	0	0	sm'h	.....	clear.
S. S. Oceanic, N. 34° 20′ E. 138° 18′*	30.08	764.0	62	16.7	88	se.	.....	.....	3	.....	3	.....	se.	.....	.....	2	se.	fine.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, Savannah, Ga†	29.91	759.7	.....	.....	.....	ese.	.....	.....	1	.....	10?	.....	e.	.....	.....	.....	.....	clear ?
S. S. Seminole, Boston, Mass†	29.77	756.1	36	2.2	61	nne.	.....	.....	4	.....	5	.....	nne.	6 h'r	6 h'r	.....	.....	fair.
OREGON IMPROVEMENT COMPANY.																		
S. S. Mississippi, Seattle, Wash. Ter.†	30.19	766.8	42	5.6	83	se.	.....	.....	1	.....	5	.....	sw.	.....	.....	.....	.....	fair.
S. S. Willamette, Seattle, Wash. Ter.*†	30.18	766.6	48	8.9	70	ssw.	.....	.....	2	.....	2	.....	s.	0	0	.....	.....	fine.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. City of Chester, N. 58° 19′, W. 134° 35′*†	30.04	763.0	31	—0.6	89	ne.	.....	.....	1	.....	2	.....	n.	.....	.....	sm'h	.....	clear.
S. S. Oregon, N. 44° 18′, W. 124° 08′†	30.15	765.8	44	6.7	68	ssw.	.....	.....	1	.....	2	.....	ssw.	.....	.....	light	wnw.	clear.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, N. 36° 06′, W. 121° 41′†	30.04	763.0	49	9.4	71	nw.	.....	.....	3	.....	0	.....	.....	.....	.....	mod.	wnw.	clear.
S. S. Idaho, N. 47° 05′, W. 124° 48′.†	30.17	760.3	47	8.3	85	s.	.....	.....	2	.....	2	.....	n.	.....	.....	long	w.	clear.
S. S. State of California, Portland, Oregon.†	30.11	764.8	30	2.2	90	calm	.....	.....	0	.....	10	.....	sw.	.....	.....	.....	.....	fair.
S. S. Victoria, N. 38° 41′ W. 123° 38′†	30.03	762.8	50	10.0	86	nw.	.....	.....	3	.....	0	.....	.....	0	0	sm'h	.....	hazy.
PACIFIC MAIL STEAMSHIP CO.																		
S. S. Australia, Sydney, N. S. W.	29.91	759.7	63	17.2	78	ne.	.....	.....	1	.....	5?	.....	ne.	.....	.....	.....	.....	cloudy.?
S. S. City of New York, Sydney, N. S. W.†	29.88	758.9	72	22.2	85	ene.	.....	.....	2	.....	0	.....	.....	0	0	.....	.....	clear.
S. S. City of Pekin, N. 8° 49′, W. 84° 10′†	29.89	759.2	80	26.7	91	wnw.	.....	.....	4	.....	10	.....	w.	.....	.....	sm'h	.....	cloudy.
S. S. City of Rio de Janeiro, N. 21° 30′, W. 106° 10′*†	30.10	764.5	72	22.2	85	var.	.....	.....	1	.....	8	.....	sw.	.....	.....	light	irreg.	cloudy.
S. S. City of Sydney, N. 22° 14′, W. 156° 14′†	30.05	763.3	72	22.2	76	ene.	.....	.....	3	.....	8	.....	ne.	0	0	long	ne.	cloudy.
S. S. City of Tokio, N. 36° 30′, W. 135° 33′†	30.30	769.6	57	13.9	81	sw.	.....	.....	5	.....	2	.....	ssw.	1 h'r	1 h'r	small	sw.	clear.
S. S. Colon, Aspinwall, Panama†	29.90	759.4	70	21.4	.....	sse.	.....	.....	2	.....	0	.....	.....	0	0	sm'h	.....	clear.
S. S. South Carolina, N. 7° 50′, W. 79° 47′†	29.99	761.7	77	25.0	91	n.	.....	.....	4	.....	2	.....	ne.	1 h'r	1 h'r	light	s.	fine.
S. S. Zelandia, San Francisco, Cal.	29.97	761.2	47	8.3	85	calm	.....	.....	0	.....	0	.....	.....	.....	.....	sm'h	.....	fine.
QUEBEC STEAMSHIP COMPANY.																		
S. S. Muriel, Martinique, W. I.	29.98	761.5	82	27.8	.....	ene.	.....	.....	4	.....	0	.....	.....	0	0	sm'h	.....	fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.			Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Amount and kind.		Direction.						
								Force.	Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
Red Star Line.																		
S. S. Belgenland, Antwerp, Belgium†	30.00	762.0	50	10.0	86	e.	.....	.....	3	.....	2	.....	.....	0	0	.....	.....	clear.
S. S. Nederland, N. 39° 42′, W. 49° 23′*†.	30.50	774.7	44	6.7	.....	nne.	.....	.....	1	.....	1	.....	ne.	0	0	sm'h	ne.	clear.
S. S. Rhynland, N. 49° 48′ W. 8° 38′...!	29.87	758.7	52	11.1	73	ssw.	.....	.....	3	.....	7	.....	sw.	c	0	long	w.	cloudy.
S. S. Switzerland, N. 40° 11′. W. 58° 36 †.	29.75	755.6	.....	.....	.....	ese.	.....	.....	6	.....	10	.....	ese.	.....	.....	mod.	ese.	raining.
S. S. Vaderland, N. 49° 00′ W. 19° 34′	29.58	751.3	54	12.2	87	se.	.....	.....	6	.....	10	.....	.....	8 h'r	8 h'r	r'gh	sse.	hazy.
S. S. Waesland, Jersey City, N. J	29.87	758.7	34	1.1	.....	wnw.	.....	.....	4	.....	2	.....	wsw.	4 h'r	4 h'r	.....	.....	fair.
Rotterdam Line.																		
S. S. Schiedam, N. 40° 35′, W. 71° 05′*	29.76	755.9	41.0	5.0	98	nw.	.....	.....	4	.....	6	.....	nw.	0	0	sm'h	.....	cloudy.
State Line.																		
S. S. State of Florida. N. 42° 53′ W. 45° 28′	29.70	754.4	48	8.9	.....	wnw.	.....	.....	5	.....	10	.....	nnw.	1 h'r	1 h'r	.....	.....	hazy.
Thingvalla Line.																		
S. S. Thingvalla, Copenhagen, Denmark†	30.12	765.0	49.1	9.5	.....	nne.	.....	.....	1	.....	2	.....	nne.	0	0	.....	.....	clear.
White Star Line.																		
S. S. Adriatic, N. 45° 48′ W. 40° 08′†	29.52	749.8	52	11.1	.....	n.	.....	.....	6	.....	2	.....	n.	light	light	mod.	n.	d. clouds.
S. S. Celtic, Liverpool, Eng.†	29.89	759.2	51	10.6	.....	var.	.....	.....	1	.....	0	.....	.....	0	0	.....	.....	fine.
Wilson Line.																		
S. S. Romano, N. 45° 10′ W. 37° 31′*†.	29.15	740.4	53	11.7	.....	var.	.....	.....	6	.....	3	.....	nw.	0	0	r'g h	.....	fine.
Winsor Line.																		
S S. Catherine Whiting, Philadelphia, Pa.†	30.06	763.5	.....	.....	.....	nw.	.....	.....	2	.....	.....	.....	nw.	0	0	.....	.....	
Miscellaneous.																		
Sch. Addie Fuller, N. 24° 24′, W. 79° 59′†	30.05	763 3	75	23.9	90	calm	.....	.....	0	0	1 k	....	.....	0	0	sm'h	.....	clear.
Bk. Adelaide, Rio de Janeiro, Brazil*†	30.05	763.3	82	27.8	.....	sse.	.....	.....	.....	.....	.....	.....	se.	.....	.....	.....	.....	hazy.
Schr. Ajax, Pensacolo, Fla†	29.98	761.5	.....	.....	.....	n.	.....	.....	1	.....	10	.....	se.	.....	.....	.....	.....	fair.
Bk. Alpha, N. 25° 00′, W. 67° 15′†	29.97	761.2	75	23.9	.....	ssw.	.....	.....	3	.....	1	.....	sw.	0	0	sm'h	.....	clear.
Bk. Antioch, S. 33° 00′ W. 17° 50′*†	30.05	763.3	70	21.1	.....	wsw.	.....	.....	6	.....	2	.....	wsw.	0	0	mod.	sw.	fair.
Schr. Asa Eldridge, Key West, Fla†	30.05	763.3	.....	.....	.....	w.	.....	.....	3	.....	1	.....	s.	0	0	sm'h	.....	clear.
Bk. Aureola, N. 21° 00′, W. 35° 15′*†	30.35	770.9	80	26.7	.....	e.	.....	.....	5	.....	1	.....	e.	0	0	mod.	ese.	
Sch'r Annie M. Small, S. 41° 25′ E. 20° 00′*†	29.80	756.9	60	15.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	0	0	.....	.....	
Bk. Bergenseren, N. 37° 44′. W 0° 01′†	29.93	760.2	.....	.....	.....	s.	.....	.....	1	.....	.....	.....	.....	0	0	.....	.....	clear.
Bkt. Carrie Heckle, N. 25° 36′, W. 68° 05′*†.	30.12	765.0	75	23.9	.....	ssw.	.....	.....	3	.....	2	.....	ssw.	0	0	sm'h	ssw.	misty.
Bk. Celestina, S. 22° 45′, W. 38° 00′*†	30.06	763.5	.....	.....	.....	e.	.....	.....	2	.....	1	.....	ene.	0	0	long	ssw.	fine.
Bk. Champion, N. 38° 54′ W. 52° 11′†	30.01	762.2	.....	.....	.....	e.	.....	.....	3	.....	5	.....	se.	0	0	sm'h	ese.	
Dora, N. 26° 33′, W. 86° 33 †.	29.97	761.2	77.7	25.4	.....	sw.	.....	.....	3	.....	2	.....	wsw.	0	0	sm'h	.....	clear.
Bk. E. L. Pettengill, N. 18° 14′ W 128° 19′†	30.10	764.5	.....	.....	.....	ne.	.....	.....	5	.....	5	.....	ne.	sh'rs	sh'rs	r'gh	nne.	d. clouds.
S. Enoch Train, N. 49° 10′, W. 28° 40′*	29.01	736.8	.....	.....	.....	s	.....	.....	8	.....	3	.....	s.	12 h'r	12 h'r	con.	.....	clear.
S. Exporter, N 24° 55′, W. 30° 20′*†	30.40	772.1	.....	.....	.....	nw.	.....	.....	2	.....	1	.....	n.	0	0	long	nne.	fine.
Ship Festina Lente, N. 48° 00′, W. 40° 02′*	29.52	749.8	51	10.6	.....	nnw.	.....	.....	6	.....	1	.....	ne.	6 h'r	6 h'r	cross	ssw.	clear.
U. S. F. C. S. FishHawk, Quantico, Va.†	30.09	764.3	38	3.3	71	nnw.	.....	.....	4	.....	6	.....	nw.	0.23	5.8	.....	.....	fair.
S. Grecian, S. 36° 45′, W. 19° 00′*†	29.95	760.7	64	17.8	.....	wnw.	.....	.....	6	.....	4	.....	wnw.	0	0	long	sw.	clear.
Bk. Freya, N. 36° 35′, W. 62° 50′	.....	.....	68	20.0	.....	wsw.	.....	.....	4	.....	2	.....	wsw.	0	0	mod.	w.	fair.
Bk. Granville, S. 36° 56′, E. 14° 54′*†	30.10	764 5	.....	.....	.....	w.	.....	.....	3	.....	.....	.....	w.	rain	rain	mod.	w.	overcast.
Bk. Hattie G. McFarland, Baltimore, Md*†	30.02	762.5	32	0.0	.....	nw.	.....	.....	3	.....	5	.....	nw.	0	0	.....	.....	fair.
Schr. Henry Denison, Port Antonio, Jamaica, W. I†.	29.96	761.0	.....	.....	.....	ene.	.....	.....	1–3	.....	3	.....	e.	0	0	.....	.....	fair.
S. Hedwig, N. 45° 59′, W 40° 10′	29.54	750.3	51.8	11.0	78	nnw.	.....	.....	5	.....	5	.....	nnw.	0	0	4	ssw.	fine.
Schr. John L. Thomas, N. 24° 43′ W. 69° 08′*†.	30.14	765.5	.....	.....	.....	se.	.....	.....	.....	.....	1	.....	e.	0	0	mod	con.	fine.
Bk. John Wesley, Sagua la Grande, Cuba, W. I.†	29.89	759.2	76	24.4	.....	ssw.	.....	.....	1	.....	0	.....	.....	0	0	.....	.....	clear.
Bk. Jona, N. 37° 11′ W. 56° 37′*†	30.00	762.0	.....	.....	.....	w.	.....	.....	1	.....	1	.....	wnw	6 h'r	6 h'r	h'vy	cross	fair.
Bk. Josephine, Aspinwall, Panama*†	30.03	762.7	80	26.7	70	sse.	.....	.....	2	.....	5	.....	.....	0	0	.....	.....	fair.
S. Lake Erie, N. 38° 30′ W. 68° 30′	29.59	751.6	.....	.....	.....	nw.	.....	.....	3	. .....	10?	.....	w.	0	0	mod.	ese	clear.?
Bk. Liberia, N. 27° 53′, W. 27° 16′*†	30.30	769.6	74	23.3	81	calm	.....	.....	0	.....	8	.....	.....	0	0	.....	.....	fine.
Light House Tender, Laurel, Key West, Florida†	29.95	760.7	77	25.0	.....	w.	.....	.....	2	.....	3	.....	wsw.	0	0	.....	.....	clear.
Schr. Maggie Abbott, N. 33° —′ W. 72° —′*†	29.60	751.8	.....	.....	.....	ssw.	.....	.....	.....	.....	.....	.....	wnw.	rain	rain	short	w.	raining.
S. S. Malabar, N. 42° 55′ W. 9° 33′*†	29.91	759.7	.....	.....	.....	sw.	.....	.....	2	.....	.....	.....	sw.	0	0	h'vy	nw.	hazy.
Bg. Medina, Key Francis, Fla.†	30.07	763 8	.....	.....	.....	sw.	.....	.....	1	1.....	8	.....	sw.	.....	.....	.....	.....	dull.
S. S. Nebo, Rio de Janeiro, Brazil*†	29.99	761.7	.....	.....	.....	calm	.....	.....	0	.....	2	.....	n.	10 h'r	10 h'r	.....	.....	clear.
S. S. New York, N. 38° 09′ E. 7° 27′*†	30.10	764.5	.....	.....	.....	wnw.	.....	.....	3	.....	.....	.....	w.	0	0	hv'y	nw.	fair.
Bk. Peppina, N. 45° 30′, W. 9° 08′†	29.95	760.7	58	14.4	81	wsw.	.....	.....	4	.....	8	.....	w.	.....	.....	long	nw.	cloudy.
S. S. Radnorshire, N. 40° 38′ W. 38° 32′*†	29.45	748.0	.....	.....	.....	w.	.....	.....	8	.....	10	.....	wnw.	4 h'r	4 h'r	long	w.	
S. Salisbury. N. 21° 06′, W. 40° 02′*	30.21	767.4	77.9	25.5	68	ese.	.....	.....	4–5	.....	4	.....	e.	0	0	mod	se.	fair.
Bkt. Spotless, N. 0° 32′ W. 28° 26′*†	29.80	756.9	.....	.....	.....	nw.	.....	.....	.....	.....	.....	.....	nw.	.....	.....	mod.	sse.	raining.
Bk. Stella, S. 56° 00′, W. 78° 45′*	29.43	747.5	39.2	4.0	92	s.	.....	.....	6	.....	7?	.....	s.	0	0	rg'h	var.	overcast?
Washington, N. 41° 02′, W. 71° 44′*†.	29.68	753.9	.....	.....	.....	n.	.....	.....	3	.....	10	.....	.....	0	0	long	se.	cloudy.
S. Wm. Woodbury, N. 45° 45′, W. 32° 33′*†	29.07	738.4	51	10.6	.....	wsw	.....	.....	9	.....	.....	.....	wsw.	.....	.....	hv'y	wsw.	squally.

International Chart I. April 11, 1882. Isobars and Isotherms.



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON APRIL 12, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours	.....	.....	29.99	761.6	69.4	20.8	66	w.	.....	.....	3	.....	0	.....	.....	0	0	clear	Molroud.
Algiers	.....	.....	30.00	762.0	65.8	18.8	52	w.	.....	.....	3	.....	1	.....	.....	0	0	fair	Nicolas.
La Calle	.....	.....	30.00	761.9	67.6	19.8	72	wnw.	.....	.....	1	.....	2	.....	.....	0	0	fair	Fonfréde.
Tunis	.....	.....	30.00	761.9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.09	764.3	74.8	23.8	26	ese.	.....	.....	1	.....	0	.....	.....	0	0	clear	Dumas.
Tebessa	.....	.....	30.08	764.1	45.3	7.4	69	w.	.....	.....	1	.....	1	.....	.....	0	0	very fair	Derché.
Geriville	.....	.....	.....	.....	69.8	21.0	11	s.	.....	.....	7	.....	0	.....	.....	0	0	clear	Louchamp.
Laghouat	.....	.....	30.13	765.2	70.5	21.4	64	sw.	.....	.....	2	.....	0	.....	.....	0	0	clear	Abraham.
Biskra	.....	.....	30.09	764.3	79.9	26.6	21	nnw.	.....	.....	2	.....	0	.....	.....	0	0	clear	Malau.
Australian.																			
Melbourne, Victoria	29.98	761.5	30.07	763.8	52.3	11.3	87	ssw.	4	1.8	.....	.....	1	.....	.....	0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.28	743.8	29.84	757.9	46.0	7.8	52	n.	.....	.....	2	.....	10	.....	.....	0.063	1.6	raining	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.04	737.7	29.81	757.2	50.4	10.2	60	w.	7.4	3.3	.....	.....	10	.....	.....	0.114	2.9	.....	Dr. Wierzbiski.
Eperies	28.90	734.0	29.78	756.3	50.7	10.4	65	se.	.....	.....	1	.....	9 cks	.....	n.	0	0	.....	Julius Mikolik.
Gratz	28.56	725.4	29.82	757.4	45.7	7.6	47	nw.	.....	.....	4	.....	10	.....	.....	0	0	.....	Andreas Rospini.
Hermannstadt	28.32	719.2	29.73	755.2	56.1	13.4	30	s.	.....	.....	5	.....	10	.....	.....	0	0	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.62	726.9	30.02	762.4	34.5	1.4	74	nw.	.....	.....	2	.....	10	.....	.....	0.209	5.3	.....	The Staff.
Lemberg	28.80	731.4	29.78	756.3	51.8	11.0	34	se.	.....	.....	2	.....	4	.....	.....	0	0	.....	Dr. T. Stanecki.
Pola	29.77	756.1	29.88	759.0	50.4	10.2	39	nw.	.....	.....	4	.....	7	.....	.....	0.020	0.5	.....	I. R. Hydrographic Office.
Szathmar	29.28	743.6	29.74	755 3	57.0	13.9	75	s.	.....	.....	1	.....	2	.....	.....	0	0	.....	Joseph Midliuszky, S. J.
Szegedin	29.51	749.6	29.80	756.9	39.0	3.9	92	calm	.....	.....	0	.....	10	.....	.....	0.669	17.0	.....	Karl Stancel.
Trieste	29.80	750.8	29.90	759.4	52.5	11.4	37	calm	.....	.....	0	.....	10	.....	.....	0	0	.....	Rieder.
Vienna	29.18	741.2	29.92	760.0	37.6	3.1	81	w.	.....	.....	3	.....	10	.....	.....	0.106	2.7	.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.79	756.7	29.89	759.2	42.0	5.6	65	se.	19	8.5	.....	.....	7	.....	.....	0.060	1.5	d. clouds	W. Boswell.
Armagh, Observatory	29.40	746.7	29.64	752.8	47.0	8.3	85	ese.	16	7.2	.....	.....	10	.....	.....	.....	.....	gloomy	S. Call.
Bidston, Liverpool Obs'y	.....	.....	29.69	754.1	53.5	11.9	55	ese.	20	8.9	.....	.....	10	.....	.....	.....	.....	overcast	John Hartnup.
Bolton, Sharples	29.18	741.2	29.71	754.6	51.6	10.9	59	ese.	12	5.4	.....	.....	9	.....	.....	.....	.....	overcast	Thomas Mackereth. [A.S.
Bradford, Yorkshire	29.35	745.5	29.75	755.6	47.4	8.6	75	se.	.....	.....	1	.....	4	.....	.....	0.58	14.7	d. clouds	J. McLandsborough, F. R
Bridgetown, Barbadoes	29.92	760.0	29.90	761.0	83.0	28.3	59	ne.	.....	.....	2	.....	3	.....	.....	.....	.....	d. clouds	Corpl. J. Surgenor, A. H.C.
Cardington	.....	.....	29.74	755.4	57.2	14.0	54	s.	.....	.....	1.0	.....	9	.....	.....	.....	.....	overcast	John McLaren.
Chatham, School M. E.	29.67	753.6	29.80	756.9	56.5	13.6	69	s.	.....	.....	4	.....	8	.....	.....	.....	.....	d. clouds	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	29.37	746.0	29.60	751.8	52.3	11.3	96	s.	.....	.....	4	.....	10	.....	.....	.....	.....	rain & fog	The Staff.
Fort Napier, Natal	27.62	701.5	29.84	757.9	79.0	26.1	29	calm	.....	.....	0	.....	0	.....	.....	.....	.....	blue sky	Pvt. E. K. Annis, A. H.C.
Free Town, Sierra Leone	29.56	750.8	29.79	756.7	87.0	30.6	62	nw.	.....	.....	1	.....	2	.....	.....	.....	.....	blue sky	Sergt. John Robinson.
Gibraltar, Mediterranean	29.97	761.2	30.02	762.5	69.6	20.9	72	sw.	.....	.....	3	.....	0	.....	.....	.....	.....	blue sky	Opl. O. Baldwin.
Glasgow, Observatory	29.55	750.6	29.75	755.6	48.9	9.4	62	ene.	.....	.....	3	.....	8 k	.....	.....	.....	.....	d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.61	752.1	29.78	756.4	56.4	13.6	55	ssw.	.....	.....	2	.....	9	.....	.....	.....	.....	d. clouds	The Staff.
Guernsey	29.42	747.3	29.70	754.4	49.0	9.4	95	sse.	.....	.....	2	.....	10	.....	.....	.....	.....	raining	A. Collenette, F. M. S.
Kew, Observatory	29.74	755.4	29.78	756.4	56.9	13.8	55	s.	23	10.3	.....	.....	9	.....	.....	.....	.....	threatening	The Staff.
Leicester, Museum	29.44	747.8	29 69	754.1	54.3	12.4	55	sw.	.....	.....	1	.....	8	.....	.....	.....	.....	d. clouds	J. C. Smith.
Malta, Mediterranean	29.87	758.7	29.95	760.7	61.0	16.1	70	nw.	.....	.....	3	.....	3	.....	.....	blank	blank	blue sky	I. H. Whysall.
Nassau, Bahamas	29.98	761.5	30.02	762.5	79.0	26.1	78	sw.	.....	.....	1	.....	4	.....	.....	.....	.....	d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.21	741.9	29.74	755.4	51.3	10.7	59	se.	.....	.....	2	.....	10	.....	.....	.....	.....	overcast	John Mac Email.
Oxford, Radcliffe Obs'y	29.52	749.8	29.75	755.6	52.7	11.5	58	se.	.....	.....	3	.....	10	.....	.....	.....	.....	overcast	The Staff.
Plymouth	29.55	750.6	29.03	752.6	51.8	11.0	95	sse.	.....	.....	2	.....	10	.....	.....	.....	.....	raining	John Merrifield.
Sandwick Manse, Orkneys	.....	.....	29.94	760.5	40.1	4.5	61	e.	19	8.5	.....	.....	8	.....	.....	.....	.....	d. clouds	Rev. C. Clouston, L. L.D
Scutari Cemetery, Turkey	29.76	755.9	29.83	757.7	47.6	8.7	75	sw.	.....	.....	1	.....	9	.....	.....	.....	.....	gloomy	W. H. Lyne.
Sheffield	29.46	748.3	29.74	755 4	53.4	11.9	66	sso.	.....	.....	1	.....	10	.....	.....	0.29	7.4	overcast	W. F. Cooper.
Silloth Rectory	29.70	754.4	29.73	755.1	51.1	10.6	63	se.	.....	.....	4	.....	5	.....	.....	0.200	5.1	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	29.74	755.4	50.0	10.0	71	e.	16	7.2	.....	.....	10	.....	.....	.....	.....	misty	Rev. S. J. Perry.
Stratfield Turgiss	29.56	750.8	29.78	756.4	53.6	12.0	66	se.	.....	.....	2	.....	8	.....	.....	.....	.....	d. clouds	Rev. C. H. Griffiths, F.M.S.
Truro, Royal Institution	29.56	750.8	29.60	751.8	59	15.0	76	sw.	.....	.....	6	.....	5	.....	.....	.....	.....	d. clouds	W. Newcombe.
Valencia, Observatory	29.34	745.2	29.36	745 7	54.6	12.6	93	sse.	26	11.6	.....	.....	10	.....	.....	blank	blank	d. clouds	The Met'g'l Office.
Canadian.																			
Bathurst, N. B	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.52	749.8	29.56	750.8	25	— 3.9	95	w.	5	2.2	.....	.....	10 s	.....	.....	0.310	7.9	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	29.52	749.8	29.59	751.6	21	— 6.1	91	sw.	1	0.4	.....	8 ck	0	sw.	.....	0.43	10.9	fair	G. A. Blair.
Father Point, Quebec*	29.55	750.6	29.57	751.1	29	— 1.7	96	calm	0	0	.....	5 c	5 n	se.	calm	0.10	2.5	clearing	J. McWilliams.
Fort Garry, Manitoba*	29.00	751.8	30.49	774.4	21	— 6.1	100	n.	5	2.2	.....	hz.	hz.	.....	.....	0	0	.....	James Stewart.
Halifax, N. S*	29.53	750 0	29.66	753.4	27	— 2.8	84	w.	1	0.4	.....	.....	10 k	.....	.....	0.457	11.6	cloudy	A. Allison.
Kingston, Ontario*	29.44	747.8	29.79	756.7	22	— 5.6	84	w.	20	8.9	.....	.....	10 n	.....	.....	0.04	1.0	light snow	A. P. Knight, M. A.
Montreal, Quebec*	29.56	750.8	29.78	756.4	26	— 3.3	67	w.	12	5.4	.....	10 cs	0	.....	.....	inap.	inap.	cloudy	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.16	740.7	29.89	759.2	24	— 4.4	88	nw.	10	4.5	.....	5 k	5 ks	nw.	nw.	0.07	1.8	cloudy	Rev. R. Mosley.
Port Dover, Ontario	29.27	743.4	30.00	762.0	26	— 3.3	88	w.	11	4.9	.....	10 k	0	nw.	.....	0.05	1.3	cloudy	H. Morgan.
Port Stanley, Ontario	29.35	745.5	30.03	762.7	26	— 3.3	88	w.	16	7.2	.....	.....	1c n	.....	nw.	inap.	inap.	cloudy	M. Payne.
Quebec, Quebec*	29.37	746.0	29.72	754.9	20	— 6.7	96	w.	.....	.....	1	3 k	2 s	s.	w.	0	0	fair	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.32	744.7	29.80	756.9	21	— 6.1	84	w.	5	2.2	.....	.....	10 s	.....	sw.	0.03	0.8	cloudy	W. H. McIntyre.
Saugeen, Ontario*	29.19	741.4	29.94	760.5	29	— 1.7	92	nw.	20	8.9	.....	.....	10 s	.....	.....	0.10	2.5	cloudy	
St. Andrews, N. B	29.62	752.3	29.67	753.6	26	— 3.3	95	w.	1	0.4	.....	0	hz.	.....	.....	0.40	10.2	clear	
Sydney, C. B*	29.41	747.0	29.47	748.5	33	0.6	96	e.	1	0.4	.....	.....	10 n	.....	.....	0.58	14.7	cloudy	T. C. Hill, C. E.
Toronto, Ontario*	29.54	750.3	29.94	760.5	29	— 1.7	70	nw.	12	5.4	.....	.....	10 ks	.....	nw.	0.02	0.5	light snow	Magnetic Observatory.
Yarmouth, N. S*	29.66	753.4	29.73	755.1	31	— 0.6	85	nw.	5	2.2	.....	8 ck	0	w.	.....	0.14	3.6	fair	Lt. F. E. Wilmot, R. N.
Sub-series.																			
St. Johns, Newfoundland	29.75	755.6	30.01	762.2	34	1.1	100	s.	.....	.....	.....	.....	10 n	.....	.....	0	0	foggy	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.03	762.7	30.06	763.5	65.0	18.3	88	w.	7·7	3.4	.....	.....	10 s	.....	.....	0	0	light haze	John Duthie.
Cape Town, C. G. H. Obs'y	29.96	761.0	29.99	761.7	76.0	24.4	63	sse.	16	7.2	.....	1	2	.....	.....	0	0	.....	The Staff, for D. Gill.

STATIONS.	BAROMETER. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	WIND. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	CLOUDS. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
CHINESE (*Sub-series*).																			
Hankow																			N. Titoushkin.
Zi-Ka-Wei, near Shanghai.	30.06	763.6	30.09	764.2	49.6	9.8	78	n.	7.4	3.3		ck	9 k			0	0	covered	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	29.83	757.7	29.88	758.9	43.2	6.2	45	nw.	16	7			4						Oversergent Fischer.
Fanöe	29.87	758.8	29.89	759.3	45.7	7.6	68	calm			0		8						Overloerer Lauridsen.
Godthaab, Greenland	30.15	765.7	30.19	766.8	21.4	— 5.9	87	nw.			3		10						S. Kleinschmidt.
Stykkisholm, Iceland	30.12	765.0	30.16	766.1	26.2	— 3.2	94	e.			2		0						A. O. Thorlacius.
Thorshavn	30.03	762.7	30.06	763.6	40.6	4.8	67	ene.	20	9			4						Overloerer Bergh.
Vestervig	29.79	756.7	29.88	759.0	39.6	4.2	62	nw.			4		2						Loearer Oesterboi.
FRENCH.																			
Agen, Normal School	29.26	743.2	29.91	759.8	57.9	14.4	65	calm			0		kn		nw.	0	0		M. Labroue, Director.
Alençon, Normal School	29.35	745.6	29.91	759.6	56.1	13.4	73	se.			4		kn	w.	n.	0	0		M. Nicot, Director.
Arras, Engineer School	29.63	752.6	29.89	759.2	54.5	12.5	55	w.			6		0			0.004	0.1	clear	Capt. Bertrand, Dir.
Avignon, Normal School	29.87	758.6	29.95	760.6	62.6	17	34	nw.			2		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.39	746.5	29.94	760.5	55.4	13.0	43	s.			1		6			0	0	cloudy	M. Saillard, Director.
Beauvais, Normal School	29.65	753.0	29.91	759.6	56.7	13.7	47	sse.			2		8		s.	0	0	very cloudy	M. Frère Eugène Mari.
Besançon, Normal School	28.98	736.2	29.88	759.0	61.9	16.6	38	ne.			1		5		w.	0	0	cloudy	M. Gobin, Director.
Bordeaux, Observatory	29.63	752.5	29.89	759.1	61.2	16.2	42	s.			1		10			0	0	covered	M. Rayet, Director.
Bourges, Normal School	29.37	746.1	29.97	761.1	58.1	14.5	10	se.			1					0	0		M. Postel, Director.
Brest, Naval Observatory	29.49	749.1	29.74	755.3	57.2	14.0	93	sw.			3		6		sw.	0.059	1.5	misty	M. de Kermaree, Dir.
Caen, Normal School	29.72	755.0	29.80	756.9	58.6	14.8	33	s.			2		5		s.	0	0	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.55	750.6	29.87	758.7	55.4	13.0	33	s.			1		5			0	0		M. Jadot, Director.
Charleville, Normal School																			M. Grimard, Director.
Clermont-Ferrand Obs'y	28.57	725.6	29.89	759.1	65.3	18.5	21	se.			1		2			0	0	¼ covered	M. Alluard, Director.
Cluny, Normal School	29.09	738.8	29.93	760.3	55.4	13	35	s.			1					0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.11	739.4	29.99	761.8	52.9	11.6	28	ese.			1	2c		ese.		0	0	slightly cl'dy	Dr. Coulet, Director.
Gap, Normal School	27.34	694.5	29.86	758.5	53.6	12	23	n.			2					0	0		M. Jeangirard, Director.
Gréasque, du. Rhone	28.81	731.7	29.92	760.0	58.5	14.7	26	w.			2		1		sw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.17	740.8	29.93	760.1	60.1	15.6	53	ne.			4	c	0			0	0		M. Ablard, Director.
Guéret, Normal School	28.34	719.7	29.89	759.3	58.1	14.5	53	s.			1	c	0	s.		0	0		M. Rivoire, Director.
Lamballe, Normal School	29.54	750.4	29.82	757.3	50.9	10.5	89	s.			4		10		s.			raining	M. Ollitrault, Director.
Lescar, Normal School	29.35	745.0	29.91	759.7	64.8	18.2	52	wnw.			1	0	5 kn			0	0	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	29.66	753.4	29.76	756.0	52.7	11.5	93	s.			6		10			0.177	4.5	raining	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.89	733.9	29.95	760.6	56.7	13.7	28	ene.			1	5 c	0			0	0	½ covered	M. André, Director.
Mans, Normal School	29.58	751.2	29.88	759.0	56.3	13.5	96	ssw.			1		5		w.	0	0	cloudy	M. Piboen, Director.
Marseille, Observatory	29.67	753.6	29.94	760.5	59.2	15.1	39	sw.			2		4		sw.	0	0		M. Stephan, Director.
Montlouis l'instituteur	24.70	627.4	29.54	750.4	47.3	8.5	39	sw.	11.2	5.0			4	w.					M. Cave, for Dr. Fines.
Montpellier, Normal School	29.79	756.7	29.92	760.0	62.6	17	43	s.			2		2		se.			light rain	M. Galzin, Director.
Nancy, Normal School	29.15	740.5	29.94	760.5	50.5	10.3	62	ne.			2	ck	0			0	0	slightly cl'dy	M. Hasse, Director
Nantes, Observatory	29.72	754.9	29.88	759.0	52.2	11.2	78	s.			1-2		1c					rainy	M. Laroeque, Director.
Perpignan, Observatory	29.84	757.8	29.95	760.6	59.4	15.2	48	s.	15.0	6.7			8	nw.	nw.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.09	535.7			29.5	— 1.4		w.			1		10		w.	0.035	0.9	snowy	Gen'l de Nansouty, Dir.
Privas, Normal School	28.87	733.2	29.93	760.2	57.9	14.4	52	se.			1		10 s			0	0	covered	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.02	635.4			40.5	4.7	39	se.			2	5 ck	0			0	0	⅛ covered	M. Alluard, Director.
Rochefort, Naval Obs'y	29.87	758.6	29.90	759.4	56.7	13.7	84	s.			1		10			0.008	0.2	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.64	752.8	29.85	758.2	51.4	10.8	75	s.			3		10			0	0	covered	M. Mouillot, Director.
Rodez, Normal School	27.77	705.4	29.91	759 7	53.1	11.7	67	se.			1		10			0	0	covered	M. Serger, Director.
Rouen, Normal School	29.80	757.0	29.85	758.2	54.3	12.4	67	s.			2		0			0	0	clear	M. Brotier.
Saint Maur, Observatory	29.75	755.6	29.91	759.8	56.1	13.4	47	se.			1		3		nw.	0	0		M. Renou, Director.
Toulouse, Observatory	29.20	741.7	29.92	760.0	62.4	16.9	37	se.			1		10	w.		0	0	covered	M. Baillaud, Director.
Versailles, Observatory	29.41	747.0	29.90	759.5	56.5	13.6	40	s.			3					0	0		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.63	752.6	29.92	760.0	57.0	13.9	43	se.			2		7		nw.	0	0		M. Marié Davy, Director
GERMAN.																			
Bamberg	29.15	740.4	30.00	762.1	46.4	8.0	45	nw.			2	0	2 ks			0	0		Prof. Dr. Hoh.
Berlin	29.76	756.0	29.94	760.5	50.0	10.0	43	w.			1		2			0	0		Prof. Dr. Arndt.
Breslau	29.39	746.6	29.92	760.0	46.0	7.8	04	nw.			3		9			0.402	10.2		Royal University Obs'y.
Carlsruhe	29.58	751.2	30.02	762.5	47.8	8.8	25	se.			1		0			0	0		Albert Senz.
Cassel	29.23	742.4	29.94	760.5	52.2	11.2	30	s.			2		2	s.		0	0		Dr. H. Möhl.
Frankfort on the Main	29.62	752.4	29.99	761.7	50.5	10.3	31	s.			1		1			0	0		Physical Society.
Friedrichshafen	28.58	725.9	30.06	763.5	39.4	4.1	51	sw.			1		0			0	0		Wilhelm, Chief Tel.
Hamburg	29.85	758.2	29.95	760.6	50.5	10.3	52	wsw.			3		3			0	0		E. Preller.
Kiel	29.88	759.0	29.90	759.4	47.8	8.8	48	w.			2		4			0.008	0.2		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.57	751.0	29.99	761.8	47.1	8.4	46	nw.			2		2			0	0		Dr. Assmann.
Magdeburg	29.78	756.4	29.97	761.3	49.8	9.9	34	nw.			2	2 cs	0	sw.		0	0		H. Leppig, Asst.
Memel	29.82	757.5	29.87	758.7	43.9	6.6	71	w.			4	5 cs	0						Issermann.
Munich	28.18	715.8	30.04	763.1	38.7	3.7	44	calm			0		9	nw.		0.024	0.6		Central Station.
Neufahrwasser	29.85	758.3	29.87	758.6	45.7	7.6	56	ese.			1		5	wnw.				rain & snow	A. Lothes.
Neustadt, Palatinate	29.48	748.9	30.01	762.3	48.4	9.1	57	w.			2		0			0	0		Dicknether.
Stuttgart	29.05	737.9	29.96	760.9	47.3	8.5	29	se.			1		0			0	0		Prof. Dr. Schoder.
Wustrow	29.92	759.9	29.94	760.5	44.2	6.8	73	wsw.			3		10.8			0	0		Profs. Brandes & Reimer.
GREEK.																			
Athens	29.39	746.6	29.78	756.5	62.8	17.1		sw.			1.0	5 k				0.020	0.5		Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.75	755.7	29.80	757.0	82.7	28.2	71	wsw.	25.0	11.2			9			0	0	gloomy	
Deesa	29.23	742.4	29.68	754.0	98.1	36.7	16	ssw.	8.2	3.7			3		nw.	0	0	d. clouds	
Bombay	29.73	755.0	29.76	756.0	84.4	29.1	67	wnw.	17.0	7.6			1	sw.		0	0	d. clouds	
Poona, Yarrowda	27.88	708.2	29.68	754.0	92.2	33.4	12	wnw.	19.0	8.5			1	w.		0	0	d. clouds	
Belgaum	27.22	691.3	29.69	754.1	87.5	30.8	32	w.	9.0	4.0			0			0	0	blue sky	
Lahore	29.04	737.5	29.77	756.0	88.1	31.2	25	n.	1.2	0.5			5			0	0	d. clouds	
Roorkee	28.84	732.6	29.72	754.9	89.2	31.8	18	nw.	1.6	0.7			2			0	0	blue sky	
Agra	29.18	741.1	29.72	754.9	96.6	35.9	12	w.	3.1	1.4			0			0	0		
Nagpur	28.67	728.2	29.70	754.4	84.2	29.0	60	s.	6.9	3.1			9		s.			thund'r st'm	
Jubbulpore	28.42	721.8	29.80	756.8	68.9	20.5	75	w.	3.8	1.7			10		s.	0.40	10.2	raining	
Lucknow	29.34	745.1	29.70	754.4	96.0	35.6	25	nw.	6.7	3 0			0			0	0	blue sky	
Allahabad	29.40	746.8	29.70	754.5	94.7	34.8	15	calm	2.1	0.9			5		nw.	0	0	d. clouds	
Patna	29.56	750.8	29.74	755.4	93.1	33.9	16	nw.	5.0	2.2			2	nw.	nw.	0	0		
Hazaribagh	27.74	704.6	29.70	754.4	89.8	32.1	19	w.	6.9	3.1		1c	w.	e.		0	0		
Cuttack	29.69	754.0	29.77	756.0	88.1	31.2	54	w.	1.5	0.7			5			0	0	d. clouds	
Calcutta, Alipore	29.72	754.9	29.74	755.4	85.5	29.7	39	nw.	1.0	0.4			6		w.	0	0	d. clouds	
Dhubri	29.61	752.0	29.72	754.9	80.7	30.4	31	calm	1.7	0.8			0			0	0	blue sky	
Chittagong	29.72	754.8	29.81	757.1	82.1	27.8	81	sw.	4.0	1.8			0			0	0	blue sky	
Sibsagar	29.48	748.8	29.82	757.4	74.1	23.4	80	ne.	3.6	1.6			5	e.	e.	0.52	13.2	d. clouds	
Jeypore	28.31	719.1	29.71	754.7	94.9	34.9	11	w.	3.8	1.7			3		w.	0	0	d. clouds	
Zanzibar, Africa	29.82	757.4			84.7	29.3	74	ese.	3.8	1.7			5			0.25	6.3	d. clouds	
Bellary	28.24	717.3			97.0	36.1	26	sw.	5.0	2.2		4 ck	6	sw.		0	0	gloomy	
Trichinopoly	29.51	749.5			79.9	26.6	82	e.	1	0.4			10			0	0	overcast	
ITALIAN.																			
Udine	29.47	748.5	29.88	758.9	53.6	12.0	34	sw.	1.8	0.8			1c			0	0		Prof. Giovanni Clodig.
Milan	29.39	746.6	29.87	758.7	55.8	13.2	18	nw.	7.4	3.3			0			0	0		Prof. Schiaparelli.
Padua	29.78	756.3	29.89	759.1	52.2	11.2	14	w.	3.8	1.7			0			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.01	736.9	29.91	759.7	53.1	11.7	31	s.	3.8	1.7			1			0	c		Prof. P. F. Denza.
Genoa	29.72	754.9	29.91	759.7	55.4	13.0	6	nw.	6.3	2.8			0			0	0		Prof. G. M. Garibaldi.
Mondovi	27.98	710.8	29.90	759.4	48.6	9.2	25	n.			4		0			0	0		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
ITALIAN.—Continued.																			
Pesaro	29.86	758.5	29.91	759.7	48.4	9.1	55	e.	9.4	4.2	.....	.....	1	.....	.....	0.031	0.8	.....	Prof. Luigi Guidi.
Florence	29.65	753.0	29.90	759.4	57.2	14.0	9	ne.	.....	.....	4	.....	0	.....	.....	0	0	.....	Prof. Costantino Pitter.
Leghorn	29.78	756.5	29.79	756.7	55.4	13.0	26	nne.	3.8	1.4	.....	.....	0	.....	.....	0	0	.....	Prof. P. Monte.
Rome	29.72	754.9	29.89	759.3	54.3	12.4	25	n.	13.0	5.8	.....	.....	3	.....	.....	0	0	.....	Prof. P. S. Ferrari.
Lecce	29.60	751.7	29.85	758.1	53.2	11.8	49	ene.	11.2	5.0	.....	.....	5	nw.	.....	0.130	3.3	.....	Prof. C. de Giorgi.
Cosenza	28.95	735.4	29.84	757.9	51.8	11.0	71	sse.	3.1	1.4	.....	.....	9	se.	.....	0.299	7.6	.....	Prof. D. Conti.
Cagliari	29.73	755.1	29.92	760.0	53.2	11.8	71	nw.	.....	.....	6	.....	5	.....	.....	0.181	4.6	.....	Prof. A. Pacinotti.
Palermo	29.67	753.7	29.92	760.0	59.9	15.5	57	nw.	11.2	5.0	.....	.....	5	nw.	.....	0.185	4.7	.....	Prof. G. Cincciatore.
Syracuse	29.80	757.0	29.85	758.1	61.7	16.5	56	wnw.	15.0	6.7	.....	.....	8	wnw.	.....	0.039	1.0	.....	Prof. Vincenzo Guiliano.
Sub-series.																			
Naples, S. R	29.34	745.2	29.87	758.6	53.6	12.0	52	sw.	0	0	.....	.....	7	nw.	.....	0.075	1.9	.....	Prof. T. Brioschi.
Stelvio	21.91	556.5	.....	.....	15.8	— 9.0	66	ne.	.....	.....	4	.....	3	.....	.....	0	0	misty	Prof. P. F. Denza.
Valdobbia	21.96	557.8	.....	.....	25.3	— 3.7	54	n.	.....	.....	2	.....	1	.....	.....	0	0	clear	Prof. P. F. Denza.
JAPANESE.																			
Aomori	29.98	761.5	30.02	762.5	45.1	7.3	88	n.	2.2	1.0	.....	.....	10 n	.....	.....	0.112	2.8	light rain	K. Ogawa.
Hakodate	30.07	763.8	30.08	764.0	42.0	5.6	92	ese.	25.4	11.4	.....	.....	10	.....	.....	0.745	18.9	covered	
Hiroshima, I. M. Obs'y	29.65	753.1	29.66	753.3	60.6	15.9	99	s.	2.7	1.2	.....	.....	10 n	.....	.....	2.875	73.0	heavy rain	K. Sasaki.
Kanazawa	29.64	752.8	29.75	755.6	57.2	14.0	92	e.	3.9	1.7	.....	.....	10 n	.....	.....	0.610	15.5	raining	S. Endo.
Kioto	29.67	753.6	29.84	757.9	61.9	16.6	87	nne.	4.1	1.8	.....	.....	10 n	.....	.....	3.400	86.4	light rain	M. Tojima.
Kochi	29.75	755.6	29.77	756.1	68.1	20.1	89	s.	41.5	18.6	.....	.....	10 n	.....	.....	2.575	65.4	light rain	
Nagasaki, I. M. Obs'y	29.61	752.1	29.81	757.2	54.3	12.4	94	n.	4.2	1.9	.....	.....	10 n	.....	.....	1.840	46.7	light rain	S. Takehayashi.
Niigata	29.84	757.9	29.88	758.9	57.7	14.3	79	se.	12.9	5.8	.....	.....	10 n	.....	.....	0.105	2.7	light rain	
Nobiru	30.04	763.0	30.05	763.3	47.5	8.6	98	n.	1.6	0.8	.....	.....	10 n	.....	.....	0.510	13.0	raining	H. Midzushima.
Supporo	.....	.....	.....	.....	40.9	4.9	89	sse.	15.0	6.7	.....	.....	10	.....	.....	0.020	0.5	covered	
Tokei Obs'y, Yeddo	29.99	761.7	30.06	763.5	54.9	12.7	99	e.	2.0	0.9	.....	.....	10 n	.....	.....	0.282	7.2	raining	The Staff.
Wakayama	29.75	755.6	29.80	756.9	67.1	19.5	81	s.	17.7	7.9	.....	ck	10 n	.....	s.	0.570	14.5	light rain	Y. Kuwamura.
MAURITIUS.																			
Mauritius Observatory	29.73	755.1	29.92	760.0	78.7	25.9	80	s.	3.0	1.3	.....	.....	9 ks;n	.....	.....	.....	.....	showery	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.62	600.0	29.84	758.0	62.2	16.8	66	sw.	.....	.....	.....	0	3 k	.....	w.	0	0	clear	Vicente Fernandez.
Leon	24.34	618.2	29.96	761.0	62.6	17.0	64	ene.	.....	.....	1	6 ck	0	s.	.....	0	0	cloudy	Prof. M. Leal.
Mazatlan	29.70	754.3	29.96	761.0	65.0	18.3	89	e.	5.3	2.3	.....	0	1 n	.....	sw.	inap.	inap.	foggy	F. Quijano, U. E.
Mexico, Central Obs'y	23.03	584.9	30.08	764.1	53.6	12.0	74	calm	0	0	.....	1 c	0	.....	.....	0	0	clear	M. Tena, M. D.
Morelia	24.13	613.0	30.22	767.6	60.3	15.7	56	s.	.....	.....	2	0	2	.....	e.	0	0	clear	M. V. de Leon, M. E.
Pabellon, Aguascallentes	23.91	607.3	29.87	758.7	64.4	18.0	57	w.	.....	.....	3	.....	10 ks	.....	sw.	0	0	covered	M. V. de Leon, M. E.
Puebla, Catholic Institute	23.39	594.0	30.12	765.0	54.5	12.5	81	calm	0	0	.....	0	0	.....	.....	0	0	clear	Prof. P. Spina.
San Luis Potosi	24.14	613.1	30.05	763.4	66.7	19.3	50	w.	.....	.....	1	.....	10	.....	sse.	0	0	covered	G. Barreta, M. D.
Zacatecas	22.50	571.5	30.14	765.5	52.7	11.5	38	ssw.	12.4	5.5	.....	7 cs	0	.....	.....	0	0	cloudy	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.91	759.6	29.91	759.6	53.8	12.1	.....	s.	.....	.....	3	.....	.....	.....	.....	0	0	.....	
Groningen	29.84	758.0	29.90	759.4	50.2	10.1	.....	sw.	.....	.....	4	.....	.....	.....	.....	0	0	.....	
Helder	29.87	758.8	29.87	758.8	48.4	9.1	.....	ssw.	.....	.....	4	.....	.....	.....	.....	0	0	.....	
Hellevoetsluis	29.89	759.1	29.89	759.1	55.0	12.8	57	ssw.	.....	.....	3	.....	.....	.....	.....	0	0	.....	
Utrecht	29.87	758.6	29.91	759.8	54.0	12.2	55	s.	.....	.....	3	.....	2	.....	.....	0	0	lightly cl'dy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.76	756.0	29.83	757.6	36.0	2.2	39	nw.	7	3	.....	.....	4	.....	.....	0	0	.....	
Brono	29.88	759.0	29.92	760.0	29.5	— 1.4	53	ne.	9	4	.....	.....	1	.....	.....	0	0	.....	
Christiania	29.72	755.0	29.88	758.9	30.9	— 0.6	48	n.	7	3	.....	.....	10	.....	.....	0.012	0.3	.....	
Gjæsvær	29.56	750.8	29.58	751.4	23.4	— 4.8	.....	n.	.....	.....	6–7	.....	10	.....	.....	.....	.....	.....	
Lodingen	29.80	757.0	29.85	758.2	29.8	— 1.2	88	ssw.	.....	.....	2–4	.....	10	.....	.....	.....	.....	snowing	
PORTUGUESE.																			
Angra, Azores	.....	.....	.....	.....	58.6	14.8	80	nnw.	22.4	10.0	.....	.....	4	.....	.....	0.693	17.6	.....	Dr. J. A. Sampaio.
Campo Major	28.87	733.3	29.87	758.6	60.8	16.0	79	ssw.	10.5	4.7	.....	.....	10	.....	.....	0	0	.....	Dr. A. M. R. dos Santos.
Funchal, Maderia	29.97	761.2	30.06	763.4	67.6	19.8	62	wsw.	.....	.....	.....	.....	5	.....	.....	0	0	.....	Capt. D. A. de Cunha.
Lisbon, Observatory	29.64	752.9	30.00	762.0	61.0	16.1	68	ssw.	21.0	9.4	.....	.....	8	sw	.....	0	0	.....	The Staff.
Ponta Delgada, Azores	29.57	751.1	29.64	752.9	62.2	16.8	64	w.	26.2	11.7	.....	.....	3	.....	.....	0.240	6.1	..	
Saint Paul de Loando	29.68	753.9	29.88	759.0	82.2	27.9	77	wsw.	1.3	0.6	.....	.....	5	e.	.....	0	0	.....	
Serra da Estrella	25.19	639.7	29.89	759.3	48.6	9.2	72	ssw.	4.9	2.2	.....	.....	10	.....	.....	0	0	.....	
RUSSIAN.																			
Akmolinski	28.69	728.8	29.80	757.0	32.2	0.1	89	wsw.	9	4	.....	.....	10 n	.....	.....	0.004	0.1	.....	Major K. Lasarew.
Archangel	29.70	754.3	29.72	754.8	29.1	— 1.6	88	wnw.	9	4	.....	0	8 ks	.....	.....	0	0	.....	Capt. Sseliwerstow.
Astrakhan	29.56	750.8	29.48	748.7	40.6	4.8	90	ene.	9	4	.....	.....	10 n	.....	.....	0.146	3.7	heavy cl'ds	Capt. Wisganow.
Barnaul	29.33	744.9	29.83	757.7	42.6	5.9	56	sw.	4	2	.....	.....	8	.....	.....	0	0	light clouds	Meteorological Obs'y.
Dorpat	29.48	748.8	29.73	755.1	39.2	4.0	93	w.	4	2	.....	.. ..	10 n	.....	.....	0.134	3.4	light rain	Observatory.
Ekaterinburg	28.60	726.4	29.56	750.7	44.2	6.8	77	wsw.	16	7	.....	.....	1	.....	.....	0	0	.....	Meteorological Obs'y.
Kasan	29.41	746.9	29.68	753.9	35.8	2.1	66	ssw.	7	3	.....	.....	10	.....	.....	0	0	.....	Observatory.
Kertch	29.62	752.4	29.64	752.9	43.0	6.1	79	n.	16	7	.....	.....	10 n	.....	.....	0	0	.....	Lagorio & Sastyrez.
Kieff	29.23	742.4	29.87	758.8	44.6	7.0	29	n.	7	3	.....	c;cs	4 k;ks	.....	.....	0	0	.....	Observatory.
Lugan	29.48	748.8	29.69	754.0	40.4	5.0	28	ne.	34	15	.....	.....	9	.....	.....	0	0	.....	Meteorological Obs'y
Moscow	29.26	743.2	29.74	755.4	43.0	6.1	52	n.	4	2	.....	0	7 ks	.....	.....	0	0	.....	Meteorological Obs'y.
Nikolaiev	29.80	757.0	29.87	758.8	53.6	12.0	40	ese.	4	2	.....	4 cs	0	.....	.....	0	0	.....	Capt. Kurdakow.
Nikolaievsk, on the Amoor	29.87	758.8	29.96	761.0	28.0	— 2.2	73	e.	9	4	.....	.....	2	.....	.....	0	0	.....	Lieut. Iwanow.
Pekin, China	29.97	761.1	30.11	764.7	57.7	14.3	19	nw.	9	4	.....	0	0	.....	.....	0	0	.....	Physical Observatory
St. Petersburg	29.76	756.0	29.78	756.4	36.0	2.2	46	ese.	9	4	.....	.....	9 k	.....	.....	0.075	1.9	.....	Central Physical Obs'y
Ssemipalatinsk	29.21	741.9	29.87	758.7	47.8	8.8	59	w.	18	8	.....	0	1 k	.....	.....	0	0	.....	Major Lasaren.
Tashkend, Laboratory	28.35	720.0	29.88	759.0	65.5	18.6	88	nne.	9	4	.....	.....	1	.....	.....	0.012	0.3	.....	Teich, A. M.
Tiflis	28.04	712.2	29.43	747.6	54.0	12.2	54	nw.	18	8	.....	7 ck	0	.....	.....	0	0	.....	Physical Observatory
Vladivostok	29.98	761.4	30.04	763.1	36.0	2.2	79	w.	2	1	.....	0	2 k	.....	.....	0.169	4.3	.....	
Warsaw	29.40	746.8	29.83	757.6	49.8	9.9	53	s.	4	2	.....	.....	10	.....	.....	0	0	.....	Astronomical Obs'y
Wilna	29.43	747.4	29.85	758.1	50.5	10.3	40	ssw.	4	2	.....	.....	10	.....	.....	0	0	.....	Berg, Assistant.
Yeniseisk	29.58	751.4	29.87	758.8	38.8	3.8	64	se.	4	2	.....	.....	2	.....	.....	0	0	.....	M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	29.83	757.7	29.94	760.4	62.1	16.7	72	se.	3.6	1.6	.....	.....	8	.....	.....	0	0	.....	Antonio Rave, Director.
Bilbao, Met. Obs'y	29.84	758.0	29.90	759.5	70.9	21.6	46	e.	2.7	1.2	.....	3	2	sw.	.....	0	0	cloudy	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	26.98	685.3	29.91	759.7	58.8	14.9	32	s.	5.1	2.3	.....	.....	8	.....	.....	0	0	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27.73	704.3	29.83	757.7	65.5	18.6	41	s.	23.0	10.3	.....	5	0	w.	.....	0	0	light clouds	The Staff.
Murcia, Met. Obs'y	29.81	757.2	29.96	760.9	75.6	24.2	47	ese.	2.5	1.1	.....	3	3	ne.	.....	0	0	cloudy	Olayo Diaz, Director.
Santiago, Met. Obs'y	28.85	732.8	29.75	755.6	54.7	12.6	93	s.	27.3	12.2	.....	.....	10	.....	.....	0.386	9.8	raining	R. Gil Vallanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I	29.86	758.5	29.93	760.1	74.2	23.4	85	se.	3.1	1.4	.....	0	0	.....	.....	0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.83	757.6	29.89	759.1	81.8	27.7	66	e.	2.4	1.1	.....	5 c	3 ck	.....	e.	0	0	cloudy	F. Faura, S. J.
San Fernando, Naval Obs'y	29.97	761.2	30.07	763.7	65.8	18.8	66	sw.	0.5	0.2	.....	0	4	.....	sw.	0	0	.....	Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	29.94	760.5	30.03	762.8	77.4	25.2	84	se.	5.4	2.4	.....	2 s	3 k	... .	se.	0	0	.....	Manuel Maeu.
Tuguegarao, Philippine Id's	29.77	756.1	29.90	759.4	79.9	26.6	75	nnw.	2.8	1.3	.....	.....	10 ks	.....	wnw.	inap.	inap.	covered	José L. Yrastorza.
SWEDISH.																			
Haparanda	29.80	756.8	29.84	757.8	30.9	— 0.6	51	sw.	.....	.....	2	.....	0	.....	.....	0	0	.....	
Umea	29.78	756.4	29.83	757.7	28.8	— 1.8	80	e.	.....	.....	4	.....	6	.....	.....	0	0	.....	
Hernosand	29.72	754.8	29.77	756.1	25.3	— 3.7	67	ne.	.....	.....	7	.....	10	.....	.....	0	0	.....	
Stockholm	29.50	749.3	29.68	753.8	28.9	— 1.7	64	nw.	.....	.....	7	.....	10	.....	.....	0.051	1.3	.....	
Wisby	29.73	755.1	29.79	756.6	29.5	— 1.4	85	nnw.	.....	.....	6	.....	10	.....	.....	0.004	0.1	.....	
Sub-series.																			
Upsala	29.56	750.9	29.65	753.1	27.7	— 2.4	71	nw.	23.5	10.5	.....	.....	9	.....	nnw.	0.004	0.1	.....	S. G. Fineman.
SWISS.																			
Geneva	28.54	724.9	30.00	761.9	45.3	7.4	38	n.	.....	.....	3	.....	.....	.....	.....	0	0	clear	The Observatory

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
TURKISH.																			
Constantinople	.....	.....	29.87	758.8	49.5	9.7	68	s.	3	1.5	.....	.....	10	.....	n.	0	0	.....	The Observatory.
Valona	.....	.....	29.89	759.2	54.3	12.4	.....	nw.	.....	.....	1	.....	5	.....	.....	2.17	55.	cloudy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	29.85	758.2	66.6	19.2	68	w.	.....	.....	3	0	7 ks	.....	w.	0.165	4.2	.....	Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	29.85	758.2	29.93	760.2	35	1.7	69	w.	3	1.3	.....	5 c	2 ks	.....	.....	0.01	0.3	fair	J. O. Barnes.
Alpena, Michigan	29.35	745.5	30.04	763.0	28	— 2.2	88	nw.	17	7.6	.....	.....	10 n	.....	.....	0.08	2.0	light snow	Jas. J. Fitzgerald.
Atlanta, Georgia	28.78	731.0	29.97	761.2	47.0	8.3	93	e.	3	1.3	.....	.....	10 n	.....	calm	0.15	3.8	light rain	H. Hall.
Atlantic City, New Jersey	30.06	763.5	30.07	763.8	30	— 1.1	56	w.	10	4.5	.....	0	0	.....	.....	0	0	clear	Jas. M. Watson.
Augusta, Georgia	29.82	757.4	30.00	762.0	59	15.0	81	ne.	3	1.3	.....	.....	10 n	.....	.....	0.01	0.3	light rain	John Healy.
Baltimore, Maryland	30.08	764.0	30.13	765.3	32	0.0	68	nw.	4	1.8	.....	0	0	.....	.....	0	0	clear	Robert Seybolt.
Barnegat, New Jersey	30.02	762.5	30.04	763.0	34.7	1.5	67	w.	12	5.4	.....	0	0	.....	.....	0	0	clear	Chas. F. Merritt.
Bismarck, Dakota	28.50	723.9	30.37	771.4	26	— 3.3	88	ne.	6	2.7	.....	8 ck	0	ne.	.....	0	0	cloudy	Cyrus Cramer.
Boise City, Idaho	27.31	693.7	30.15	765.8	35	1.7	82	w.	1	0.4	.....	0	0	.....	.....	0	0	clear	B. E. Light.
Boston, Massachusetts	29.72	754.9	29.88	758.9	29.0	— 1.7	56	w.	17	7.6	.....	0	0	.....	.....	0	0	clear	O. B. Cole.
Brownsville, Texas	29.60	751.8	29.65	753.1	77	25.0	90	s.	4	1.8	.....	6 cs	4 s	.....	s.	0	0	cloudy	J. C. Galloway.
Buffalo, New York	29.16	740.7	29.93	760.2	29	— 1.7	88	sw.	22	9.8	.....	.....	10 n	.....	sw.	0.05	1.3	light snow	Wm. Finn.
Burlington, Vermont	29.53	750.0	29.83	757.7	29.0	— 1.7	56	w.	7	3.1	.....	5 cs	5 s	sw.	w.	inap.	inap.	cloudy	G. C. Schaeffer.
Cairo, Illinois	29.69	754.1	30.10	764.5	38.8	3.8	69	ne.	12	5.4	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	W. H. Ray.
Campo, California	27.36	694.9	29.94	760.5	42	5.6	82	w.	1	0.4	.....	.....	10 s	.....	w.	0	0	cloudy	W. H. Clendenon.
Camp Thomas, Arizona	27.05	687.1	29.78	756.4	44.5	6.9	64	calm	.....	.....	0	hz	0	.....	.....	0	0	clear	J. T. Fitzgerald.
Cape Henry, Virginia	30.15	765.8	30.17	766.3	35	1.7	53	nw.	12	5.4	.....	6 k	3 s	sw.	.....	0	0	cloudy	J. E. Lanouette.
Cape May, New Jersey	30.05	763.3	30.08	764.0	31	— 0.6	78	w.	24	10.7	.....	0	0	.....	.....	inap.	inap.	clear	W. Bolten.
Cedar Keys, Florida	29.85	758.2	29.87	758.7	75	23.9	76	sw.	9	4.0	.....	.....	10 s	.....	sw.	0	0	cloudy	F. W. Mixer.
Champaign, Illinois	29.34	745.2	30.18	766.6	29.6	— 1.3	78	ne.	11	4.9	.....	.....	10 s	.....	ne.	0	0	cloudy	L. A. Welsh.
Charleston, S. Carolina	29.89	759.2	29.95	760.7	60	15.6	87	ne.	12	5.4	.....	.....	10 s	.....	e.	0.02	0.5	threatening	J. H. Smith.
Charlotte, N. Carolina	29.19	741.4	30.05	763.3	37.0	2.8	72	ne.	9	4.0	.....	.....	10 s	.....	ne.	0	0	cloudy	D. O. Donoghue.
Chattanooga, Tennessee	29.20	741.7	30.03	762.7	41.0	5.0	57	ne.	15	6.7	.....	10 ck	0	w.	.....	0.01	0.3	cloudy	B. L. Goulding.
Cheyenne, Wyoming	23.95	608.3	29.95	760.7	19.2	— 7.1	73	ne.	4	1.8	.....	.....	10 n	.....	.....	0.08	2.0	light snow	E. McGovern.
Chicago, Illinois	29.47	748.5	30.20	767.1	29.9	— 1.2	84	nw.	4	1.8	.....	9 c	0	.....	.....	inap.	inap.	cloudy	J. Mitchell.
Chincoteague, Virginia	30.11	764.8	30.13	765.3	32	0.0	60	nw.	18	8.0	.....	0	3 s	.....	nw.	0	0	clear	V. P. Temple.
Cincinnati, Ohio	29.52	749.8	30.19	766.8	32.5	0.3	67	ne.	5	2.2	.....	8ck;cs	0	n.	.....	0	0	cloudy	R. B. Watkins.
Cleveland, Ohio	29.34	745.2	30.10	764.5	25.4	— 3.7	82	sw.	14	6.3	.....	.....	10 s	.....	nw.	inap.	inap.	cloudy	J. B. Newlin.
Coleman City, Texas	27.91	708.9	29.73	755.1	59	15.0	100	ne.	4	1.8	.....	.....	fg.	.....	.....	0	0	dense fog	L. Dorman.
Columbus, Ohio	29.28	743.7	30.15	765.8	32	0.0	78	n.	3	1.3	.....	0	0	.....	.....	0	0	clear	D. Cuthbertson.
Concho, Texas	27.78	705 6	29.72	754.9	56	13.3	93	w.	2	0.9	.....	.....	fg.	.....	.....	0	0	dense fog	W. W. McConihe.
Davenport, Iowa	29.53	750.0	30.20	767.1	34	1.1	71	ne.	4	1.8	.....	8 ck	hz.	nw.	calm	0	0	cloudy	R. R. Martin.
Dayton, Washington T'y	28.48	723.4	30.22	767.6	31.8	— 0.1	82	e.	3	1.3	.....	0	0	.....	.....	0	0	clear	H. Clifford.
Deadwood, Dakota	25.45	646.4	30.14	765.5	20	— 6.7	87	calm	0	0	.....	.....	10 n	.....	.....	0.10	2.5	light snow	G. W. Scott.
Decatur, Texas	.....	.....	.....	.....	54	12.2	80	n.	9	4.0	.....	.....	10 s	.....	n.	inap.	inap.	cloudy	D. J. Carr.
Delaware Breakwater, Del.	30.10	764.5	30.12	765.0	32	0.0	78	w.	14	6.3	.....	0	hz.	.....	.....	inap.	inap.	clear	A. Schneider.
Denison, Texas	29.03	737.3	29.83	757.7	51.0	10.6	100	ne.	6	2.7	.....	.....	10 n	.....	.....	0.89	22.6	light rain	J. McGlone.
Denver, Colorado	24.68	626.9	29.95	760.7	36.5	2.5	59	ne.	2	0.9	.....	.....	10 s	.....	n.	0.11	2.8	cloudy	F. M. Neal.
Des Moines, Iowa	29.27	743.4	30.20	767.1	34	1.1	71	e.	6	2.7	.....	.....	10 s	.....	e.	0	0	cloudy	F. W. Conrad.
Detroit, Michigan	29.36	745 7	30.09	764.3	30.4	— 0.9	78	w.	10	4.5	.....	0	0	.....	.....	0	0	clear	C. F. R. Wappenhans.
Dodge City, Kansas	27.47	696.2	30.05	763.3	29	— 1.7	88	n.	16	7.2	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	E. A. Thomas.
Dubuque, Iowa	29.50	749.3	30.23	767.8	30.9	— 0.6	62	ne.	2	0.9	.....	6 k	3 s	n.	calm	0	0	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.55	750.6	30.27	768.8	30	— 1.1	77	n.	9	4.0	.....	0	0	.....	.....	0	0	clear	N. B. Conger.
Eagle Pass, Texas	28.80	731.5	29.61	752.1	60.3	15.7	87	calm	0	0	.....	0	0	.....	.....	0	0	clear	F. Belford.
Eagle Rock, Idaho	25.27	641.8	29.99	761.7	30	— 1.1	92	sw.	12	5.4	.....	.....	10 s	.....	sw.	0.12	3.0	cloudy	J. M. Clifford.
Eastport, Maine	29.64	752.8	29.71	754.6	29.5	— 1.4	82	sw.	4	1.8	.....	3 c	0	.....	.....	0.08	2.0	clear	J. H. Melton.
El Paso, Texas	26.11	663.2	29.85	758.2	48	8.9	38	nw.	6	2.7	.....	0	0	.....	.....	0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.28	743.7	30.03	762.7	29	— 1.7	77	nw.	16	7.2	.....	.....	10 s	.....	nw.	0.02	0.5	cloudy	R. H. Paxton.
Escanaba, Michigan	29.49	749 0	30.18	766.6	30	— 1.1	88	n.	16	7.2	.....	.....	10 s	.....	n.	0.01	0.3	cloudy	C. Dill.
Florence, Arizona	28.36	720.3	29.86	758.4	41.6	5.3	68	ne.	1	0.4	.....	6 cs	0	sw.	.....	0	0	fair	R. R. Herman.
Fort Apache, Arizona	24.87	631.7	29.79	756.7	26	— 3.3	70	e.	3	1.3	.....	.....	10 s	.....	calm	0	0	cloudy	W. C. Barnes.
Fort Assinnaboine, Montana	27.36	694.9	30.26	768.6	28	— 2.2	77	e.	18	8.0	.....	.....	10 s	.....	ne.	0.19	4.8	cloudy	B. O. Lenoir.
Fort Bennett, Dakota	28.68	728.5	30.32	770.1	30	— 1.1	100	n.	4	1.8	.....	.....	10 n	.....	.....	0.15	3.8	light snow	T. Gibson.
Fort Benton, Montana	27.39	695.7	30.25	768.3	30	— 1.1	81	ne.	8	3.6	.....	.....	10 s	.....	calm	0.15	3.8	cloudy	S. Wheaton.
Fort Buford, Dakota	28.38	720.8	30.45	773.4	22	— 5.6	73	ne.	10	4.5	.....	0	0	.....	.....	0	0	clear	A. H. Bell.
Fort Custer, Montana	26.93	684.0	30.11	764.8	29	— 1.7	88	e.	6	2.7	.....	.....	10 n	.....	calm	0.23	5.8	light snow	V. Verge.
Fort Davis, Texas	24.97	634.2	29.76	755.9	54	12.2	24	nw.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. Williams.
Fort Elliott, Texas	27.13	689.1	29.91	759.7	36	2.2	72	ne.	16	7.2	.....	.....	10 n	.....	ne.	0.07	1.8	light rain	W. J. Cundall.
Fort Gibson, Indian T'y	29.36	745.7	29.94	760.5	45.0	7.2	93	ne.	4	1.8	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	J. B. Campbell.
Fort Grant, Arizona	25.07	636.8	29.80	756.9	38	3.3	40	sw.	2	0.9	.....	0	7 s	.....	.....	0	0	fair	T. J. Macgowan.
Fort Griffin, Texas	28.46	722.9	29.76	755.9	63	17.2	90	ne.	6	2.7	.....	.....	fg.	.....	.....	0	0	dense fog	G. H. Hayne.
Fort Keogh, Montana	27.69	703.3	30.23	767.8	28	— 2.2	77	se.	13	5.8	.....	.....	9 s	.....	se.	0.25	6.3	cloudy	W. B. Stockman.
Fort Macon, North Carolina	30.07	763.8	30.08	764.0	44	6.7	76	ne.	23	10.3	.....	.....	10 s	.....	calm	0	0	cloudy	L. Leonardy.
Fort McKavett, Texas	27.50	698.5	29.76	755 9	62	16.7	78	e.	2	0.9	.....	3 k	0	w.	.....	0	0	fair	J. E. Thatcher.
Fort Missoula, Montana	26.86	682.2	30.17	766.3	34	1.1	82	w.	1	0.4	.....	.....	10 s	.....	s.	0	0	cloudy	J. H. Jones.
Fort St. Michaels, Alaska	30.24	768.1	30.27	768.8	25	— 3.9	100	se.	2	0.9	.....	0	0	.....	.....	0	0	clear	A. P. Leavitt.
Fort Shaw, Montana	26.50	673.1	30.18	766.6	29	— 1.7	100	n.	2	0.9	.....	.....	10 n	.....	.....	0.16	4.1	light snow	A. L. Mathews.
Fort Sill, Indian Territory	28.64	727.4	29.88	758.9	44.3	6.8	95	n.	20	8.9	.....	.....	10 n	.....	.....	0.25	6.3	light rain	T. Cleary.
Fort Stevenson, Dakota	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. Burrows
Fort Verde, Arizona	.....	.....	.....	.....	41.2	5.1	67	sw.	.....	.....	1	0	0	.....	.....	0	0	clear	D. Brooks.
Fort Washakie, Wyoming	24.40	619.7	.....	.....	29.1	— 1.6	92	e.	9	4.0	.....	.....	10 n	.....	.....	0.02	0.5	light snow	T. M. Ambler.
Fredericksburg, Texas	27.94	709.7	29.66	753.4	69	20.6	90	se.	6	2.7	.....	10 k	0	sw.	.....	0	0	cloudy	H. S. Miles.
Galveston, Texas	29.68	753.9	29.72	754.9	74	23.3	90	se.	12	5.4	.....	4 cs	3 ks	se.	.....	0.12	3.0	cloudy	E. O'C. MacInerney.
Grand Haven, Michigan	29.45	748.0	30.14	765.5	34.0	1.1	72	nw.	12	5.4	.....	0	8 s	.....	nw.	0.23	5.8	cloudy	W. A. Reid.
Hatteras, North Carolina	30.09	764.3	30.11	764.8	42	5.6	65	ne.	22	9.8	.....	10 k	0	ne.	.....	0	0	cloudy	R. M. Crawford.
Helena, Montana	25.87	657.1	30.13	765.3	33	0.6	71	nw.	1	0.4	.....	.....	10 s	.....	.....	0.15	3.8	cloudy	N. C. Smith.
Henrietta, Texas	28 88	733.5	29.92	760.0	50.0	10.0	100	n.	17	7.6	.....	.....	10 n	.....	.....	0.12	3.0	light rain	J. W. Byram.
Huron, Dakota	28.82	732.0	30.27	768.8	34.3	1.3	82	n.	3	1.3	.....	.....	10 s	.....	.....	0	0	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.34	745.2	30.16	766.1	30.5	— 0.8	69	ne.	4	1.8	.....	0	9 s	.....	nw.	0	0	cloudy	O. Schutze
Indianola, Texas	29.68	753.9	29.71	754.6	74.6	23.7	97	se.	9	4.0	.....	0	fg.	.....	.....	0.10	2.5	clear	I. A. Reed.
Jacksboro, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. P. Sherry.
Jacksonville, Florida	29.79	756.7	29.83	757.7	66	18.9	90	ne.	2	0.9	.....	.....	10 s	.....	.....	0	0	cloudy	J. W. Smith.
Keokuk, Iowa	29.49	749.0	30.16	766.1	32.5	0.3	78	e.	8	3.6	.....	.....	10 s	.....	e.	0	0	cloudy	F. Z. Gosewisch
Key West, Florida	29.92	760.0	29.94	760.5	74.0	23.3	79	e.	3	1.3	.....	5 cs	0	.....	.....	0	0	fair	L. M. Melbourne.
Kittyhawk, North Carolina	30.13	765.3	30.15	765.8	39	3.9	65	ne.	22	9.8	.....	.....	10 ks	.....	w.	0	0	cloudy	E. A. Beals.
Knoxville, Tennessee	29 01	736.8	30.05	763.3	37.4	3.0	58	ne.	8	3.6	.....	.....	10 s	.....	.....	0	0	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.42	747.3	30.22	767.6	37	2.8	61	n.	1	0.4	.....	3 cs	4 s	.....	.....	0	0	fair	S. C. Emery.
La Mesilla, New Mexico	25.94	658.9	29.82	757.4	40.0	4.4	50	calm	0	0	.....	0	0	.....	.....	0	0	clear	N. D. Lane.
Leavenworth, Kansas	29 21	741.9	30.12	765.0	36	2.2	69	e.	6	2.7	.....	.....	10 s	.....	e.	0.12	3.0	cloudy	A. W. Browne.
Lewiston, Idaho	29.45	748.0	30.30	769.6	33.5	0.8	61	calm	0	0	.....	0	0	.....	.....	0	0	clear	W. Blake.
Little Rock, Arkansas	29.60	751.8	29.92	760.0	47	8.3	86	ne.	9	4.0	.....	.....	10 s	.....	.....	0.40	10.2	cloudy	W. U. Simmons.
Los Angeles, California	29.64	752.8	30.04	763.0	44.0	6.7	68	nw.	2	0.9	.....	0	4 s	.....	w.	0	0	fair	E. F. Kubel.
Louisville, Kentucky	29.55	750.6	30.12	765.c	32	0.0	60	ne.	9	4.0	.....	.....	9 s	.....	.....	0	0	cloudy	H. C. Smyth.
Lynchburg, Virginia	29.43	747.5	30.14	765.5	33.0	0.6	41	calm	0	0	.....	3 cs	0	.....	.....	0	0	clear	W. R. Bushby.
Madison, Wisconsin	29.16	740.7	30.20	767.1	29	— 1.7	77	w.	6	2.7	.....	6 c	0	w.	.....	0	0	fair	C. A. Shaw.
Marquette, Michigan	29.45	748.0	30.20	767.1	30	— 1.1	78	n.	13	5.8	.....	.....	10 s	.....	nw.	0.02	0.5	cloudy	J. Gilligan.
Mason, Texas	28.04	712.2	29.69	754.1	68.8	20.4	87	sw.	2	0.9	.....	.....	10 s	.....	sw.	inap.	inap.	cloudy	P. M. Wilson.
Memphis, Tennessee	29.63	752.6	29.97	761.2	46	7.8	60	ne.	5	2.2	.....	.....	10 s	.....	.....	0.05	1.3	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	29.41	747.0	30.18	766.6	29	— 1.7	77	w.	8	3.6	.....	7 c	0	w.	.....	0	0	fair	W. Line.

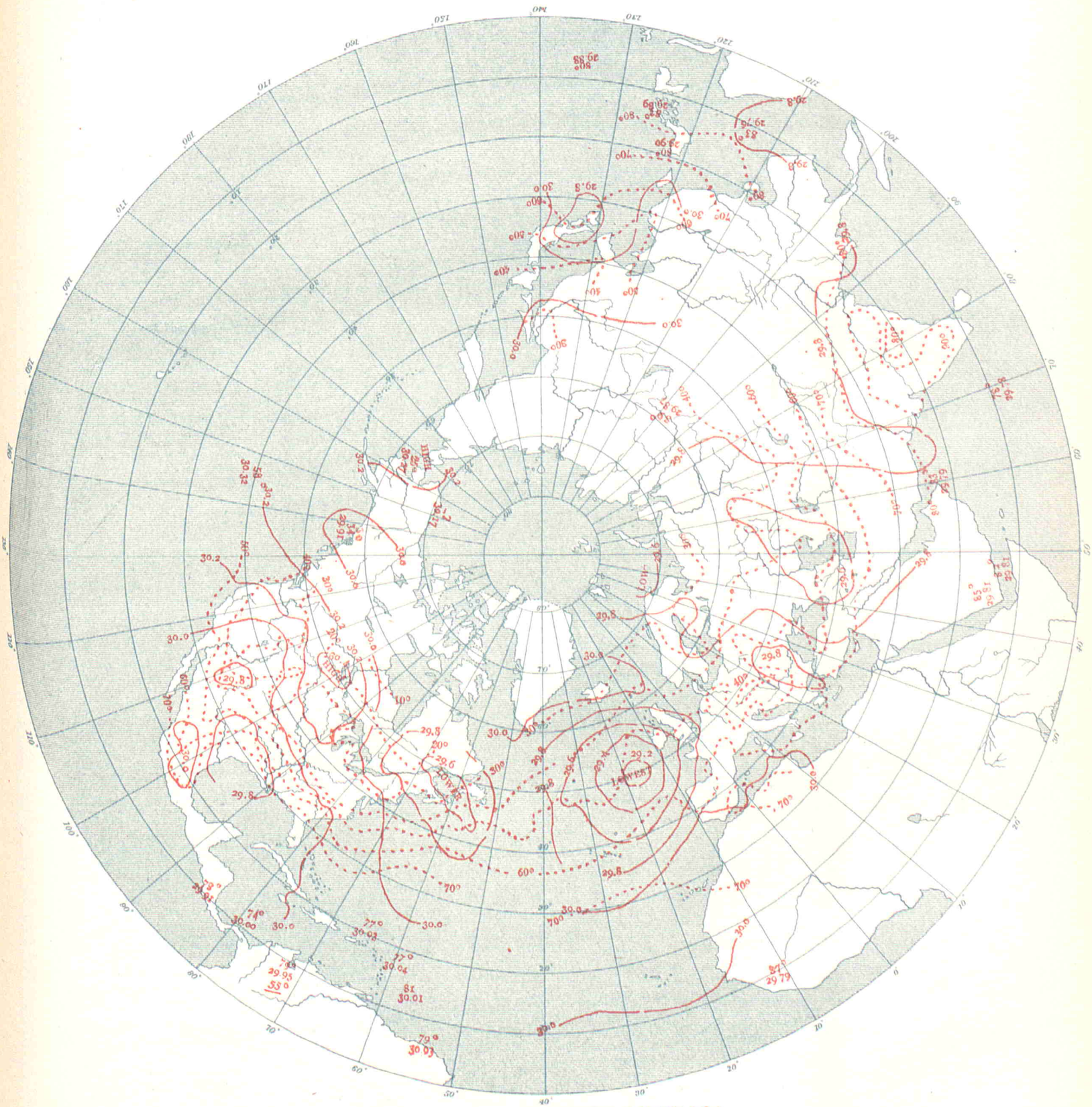
STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–or	0–10	0–10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Mobile, Alabama	29.78	756.4	29.82	757.4	63	17.2	93	ne.	4	1.8	.....	.....	10 s	.....	ne.	1.19	30.2	cloudy	J. D. Paxton.
Montgomery, Alabama	29.68	753.9	29.91	759.7	53	11.7	89	e.	10	4.5	.....	3 k	7 s	w.	w.	0.34	8.6	cloudy	J. B. McLaughlin.
Moorhead, Minnesota	29.29	744.0	30.32	770.1	28	— 2.2	88	ne.	10	4.5	.....	0	0	.....	.....	0	0	clear	H. Bessant.
Morgantown, W. Virginia	29.10	739.1	30.14	765.5	34.0	1.1	60	sw.	5	2.2	.....	0	9 s	.....	sw.	0.01	0.3	cloudy	G. C. Lewis.
Mt. Washington, N. H.	23.23	590.0	29.64	753.8	— 1.0	—18.3	94	nw.	35	15.6	.....	.....	10n;fg	.....	nw.	0.50	12.7	light snow	J. G. Linsley.
Nashville, Tennessee	29.48	748.8	30.02	762.5	37.5	3.1	66	n.	6	2.7	.....	10 cs	0	w.	.....	inap.	inap.	cloudy	L. A. Jesunofsky.
New Haven, Connecticut	29.84	757.9	29.96	761.0	28	— 2.2	77	w.	7	3.1	.....	0	0	.....	.....	inap.	inap.	clear	J. H. Sherman.
New London, Connecticut	29.90	759.4	29.95	760.7	33	0.6	68	w.	12	5.4	.....	0	0	.....	.....	0	0	clear	J. G. Lynch.
New Orleans, Louisiana	29.72	754.9	29.78	756.4	68.5	20.3	86	e.	3	1.3	.....	10 cs	0	.....	.....	2.31	58.7	cloudy	S. Dunne.
Newport, Rhode Island	29.88	758.9	29.93	760.2	30.8	— 0.7	66	w.	16	7.2	.....	0	0	.....	.....	inap.	inap.	clear	W. McGillivray.
New River, N. Carolina	.....	.....	.....	.....	42	5.6	58	ne.	.....	.....	4	.....	10 s	.....	.....	0	0	cloudy	C. C. Corbin.
New Shoreham, Rhode I'd.	29.91	759.7	29.94	760.5	32.8	0.4	60	nw.	20	8.9	.....	0	6 k	.....	nw.	0	0	fair	W. Davis.
New York, New York	29.85	758.2	30.03	762.7	28	— 2.2	88	w.	14	6.3	.....	1 cs	0	w.	.....	0	0	clear	E. B. Garriott.
Norfolk, Virginia	30.14	765.5	30.18	766.6	37	2.8	51	n.	6	2.7	.....	5 cs	0	w.	.....	0	0	fair	J. T. Elker.
North Platte, Nebraska	27.17	690.1	30.13	765.3	28.6	— 1.9	82	calm	0	0	.....	.....	10 s	.....	.....	0.05	1.3	cloudy	E. F. Brady.
Olympia, Washington T'y	30.22	767.6	30.26	768.6	35.0	1.7	92	s.	1	0.4	.....	.....	10 s	.....	calm	0.04	1.0	cloudy	J. Dascomb.
Omaha, Nebraska	28.99	736.3	30.20	767.1	33.4	0.8	80	e.	4	1.8	.....	.....	10 ks	.....	e.	0.01	0.3	clear	A. Pollak.
Ooglaamie, Pt. Barrow, Alas.	30.15	765.8	30.17	766.3	— 7.4	—21.9	84	se.	19	8.5	.....	0	1 s	.....	.....	0	0	clear	P. H. Ray.
Oswego, New York	29.50	749.3	29.84	757.9	28.0	— 2.2	77	sw.	12	5.4	.....	.....	10 n	.....	.....	0.10	2.5	heavy snow	S. W. Beall.
Palestine, Texas	29.21	741.9	29.77	756.1	59.0	15.0	100	e.	10	4.5	.....	.....	fg.	.....	.....	1.28	32.5	dense fog	L. M. Pindell.
Pensacola, Florida	29.78	756.4	29.81	757.2	64.4	18.0	89	ne.	8	3.6	.....	.....	10 s	.....	nw.	0.91	23.1	cloudy	M. McGauran.
Philadelphia, Pa.	29.98	761.5	30.08	764.0	33	0.6	78	nw.	11	4.9	.....	0	1 k	.....	nw.	0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	17.47	443.7	29.75	755.6	— 1	—18.3	62	nw.	16	7.2	.....	0	0	.....	.....	0.11	2.8	clear	L. M. Dey.
Ploche, Nevada	23.94	608.1	29.93	760.2	32	0.0	74	ne.	3	1.3	.....	.....	10 ks	.....	calm	inap.	inap.	cloudy	C. N. Kitchel.
Pittsburg, Pennsylvania	29.27	743.4	30.10	764.5	30.0	— 1.1	74	sw.	7	3.1	.....	2 k	0	sw.	.....	0.01	0.3	clear	J. H. Bryce.
Port Eads, Louisiana	29.78	756.4	29.79	756.7	69.6	20.9	97	n.	1	0.4	.....	0	7 s	.....	.....	0.04	1.0	fair	H. G. Christian.
Port Huron, Michigan	29.34	745.2	30.04	763.0	26.4	— 3.1	76	w.	9	4.0	.....	.....	10 s	.....	.....	0.08	2.0	cloudy	W. O. Bailey.
Portland, Maine	29.73	755.1	29.78	756.4	33.0	0.6	68	w.	6	2.7	.....	.....	10 s	.....	sw.	0.04	1.0	cloudy	D. C. Murphy.
Portland, Oregon	30.17	766.3	30.24	768.1	40.0	4.4	82	calm	0	0	.....	0	1 s	.....	calm	0	0	clear	M. L. Hearne.
Portsmouth, N. Carolina	.....	.....	.....	.....	44	0.7	83	ne.	24	10.7	.....	6 k	4 ks	ne.	nw.	0	0	cloudy	F. P. Chaffee.
Prescott, Arizona	24.60	624.8	29.82	757.4	37	2.8	46	s.	3	1.3	.....	.....	10 s	.....	s.	0	0	cloudy	J. McN. Wright.
Provincetown, Mass.	29.82	757.4	29.85	758.2	30	— 1.1	77	nw.	17	7.6	.....	2 cs	0	nw.	.....	0	0	clear	P. T. Jenkins.
Punta Rassa, Florida	29.88	758.9	29.89	759.2	75	23.9	85	s.	10	4.5	.....	5 ck	5 ks	w.	s.	0	0	cloudy	W. J. Evans.
Red Bluff, California	29.76	755.9	30.14	765.5	43.8	6.6	90	nw.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.44	747.8	29.68	753.9	73	22.8	84	calm	0	0	.....	.....	10 s	.....	calm	0	0	cloudy	W. H. Taylor.
Rochester, New York	29.19	741.4	29.88	758.9	27	— 2.8	100	w.	22	9.8	.....	.....	10 ks	.....	w.	0.08	2.0	cloudy	A. T. Sherwood.
Roseburg, Oregon	29.69	754.1	30.25	768.3	34.2	1.2	88	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. J. Naury.
Sacramento, California	30.02	762.5	30.10	764.5	48.7	9.3	93	w.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.54	750.3	30.15	765.8	32.0	0.0	89	e.	11	4.9	.....	.....	10 n	.....	.....	inap.	inap.	light snow	J. H. Webber.
St. Paul, Minnesota	29.35	745.5	30.23	767.8	31.0	— 0.6	90	n.	4	1.8	.....	6 ck	0	nw.	.....	0	0	fair	P. F. Lyons.
St. Vincent, Minnesota	29.53	750.0	30.44	773.2	21	— 6.1	70	n.	7	3.1	.....	0	0	.....	.....	0	0	clear	G. Kingsbury.
Salt Lake City, Utah	25.60	650.2	29.97	761.2	31.7	— 0.2	71	n.	1	0.4	.....	8 cs	0	.....	.....	0	0	cloudy	J. Craig.
San Antonio, Texas	28.94	735.1	29.64	752.8	69.5	20.8	93	e.	2	0.9	.....	.....	10 s	.....	calm	0	0	cloudy	E. Lane.
San Diego, California	29.93	760.2	30.00	762.0	49.2	9.6	89	ne.	4	1.8	.....	4 k	0	.....	.....	0	0	fair	A. C. Dobbins.
Sandusky, Ohio	29.42	747.3	30.12	765.0	28.1	— 2.2	77	sw.	13	5.8	.....	0	0	.....	.....	0	0	clear	M. H. Perry.
Sandy Hook, New Jersey	30.00	762.0	30.04	763.0	30.5	— 0.8	78	w.	23	10.3	.....	1 k	0	w.	.....	0	0	clear	B. A. Blundon.
San Francisco, California	30.07	763.8	30.14	765.5	46	7.8	93	w.	1	0.4	.....	0	fg.	.....	.....	0	0	clear	N. Gorom.
Santa Fé, New Mexico	23.02	584.7	29.78	756.4	31.4	— 0.3	32	ne.	6	2.7	.....	0	0	.....	.....	0	0	clear	H. U. Jones.
Savannah, Georgia	29.82	757.4	29.91	759.7	61	16.1	84	n.	4	1.8	.....	.....	10 ks	.....	.....	0	0	cloudy	H. W. Ford.
Shreveport, Louisiana	29.56	750.8	29.80	756.9	55	12.8	100	ne.	8	3.6	.....	.....	10 s	.....	ne.	0.21	5.3	cloudy	E. N. Meekins.
Silver City, New Mexico	24.07	611.4	29.75	755.6	33	0.6	33	w.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. B. Wallace.
Sitka, Alaska	29.85	758.2	29.91	759.7	34	1.1	78	ne.	7	3.1	.....	0	0	.....	.....	0	0	clear	J. J. McLean.
Smithville, North Carolina	29.98	761.5	30.02	762.5	51	10.6	80	ne.	19	8.5	.....	.....	10 s	.....	ne.	0	0	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	28.18	715.8	30.24	768.1	30.4	— 0.9	83	w.	1	0.4	.....	0	0	.....	.....	0	0	clear	D. Moore.
Springfield, Illinois	29.50	749 3	30.20	767.1	33	0.6	68	ne.	9	4.0	.....	.....	10 s	.....	w.	0	0	cloudy	T. B. Jennings.
Springfield, Massachusetts	29.80	756.9	29.93	760.2	34.2	1.2	65	w.	8	3.6	.....	8 k	0	w.	.....	0	0	cloudy	T. S. Outram.
Springfield, Mo.	28.53	724.6	30.05	763.3	38	3.3	92	e.	10	4.5	.....	.....	10 s	.....	.....	0.28	7.1	cloudy	J. B. Marbury.
Stockton, Texas	26.78	680.2	29.81	757.2	51.0	10.6	38	w.	16	7.2	.....	0	1 s	.....	w.	0	0	clear	J. O'Dowd.
Thatcher's Island, Mass.	29.75	755.6	29.80	756.9	32.0	0.0	68	nw.	23	10.3	.....	0	0	.....	.....	0	0	clear	G. Liebmann.
Toledo, Ohio	29.40	746.7	30.12	765.0	29	— 1.7	77	w.	12	5.4	.....	0	0	.....	.....	inap.	inap.	clear	A. Buell.
Tucson, Arizona	27.43	696.7	29.82	757.4	45	7.2	71	s.	5	2.2	.....	0	0	.....	.....	0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.93	760.2	30.30	769.6	32.2	0.1	88	se.	5	2.2	.....	0	0	.....	.....	0	0	clear	J. Daly.
Uvalde, Texas	28.68	728.5	29.65	753.1	69	20.6	93	se.	2	0.9	.....	.....	10 s	.....	se.	0	0	cloudy	E. C. Imlay.
Vicksburg, Mississippi	29.59	751.6	29.85	758.2	56	13.3	93	ne.	5	2.2	.....	.....	10 s	.....	n.	0.60	15.2	threatening	T. J. Kenan.
Visalia, California	29.67	753.6	30.04	763.0	44.5	6.9	93	nw.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. T. Cochran.
Washington, D. C.	30.04	763.0	30.16	766.1	32	0.0	78	sw.	3	1.3	.....	0	0	.....	.....	inap.	inap.	clear	B. M. Purssell.
West Las Animas, Colorado	26.00	660.4	29.96	761.0	30	— 1.1	85	e.	19	8.5	.....	.....	10 s	.....	e.	inap.	inap.	cloudy	J. Grover.
Wickenburg, Arizona	.....	.....	.....	.....	38.5	3.6	68	nw.	.....	.....	1	0	1 s	.....	nw.	0	0	clear	H. A. Kremp.
Williamsport, Pa.	29.40	746.7	30.01	762.2	28	— 2.2	64	nw.	8	3.6	.....	5 ck	3 ks	nw.	nw.	0	0	cloudy	B. F. Hough.
Wilmington, N. Carolina	29.98	761.5	30.04	763.0	47	8.3	68	ne.	12	5.4	.....	.....	10 s	.....	ne.	0	0	cloudy	E. W. McGann.
Winnemucca, Nevada	25.67	652.0	30.07	763.8	29	— 1.7	80	calm	0	0	.....	3 ck	0	sw.	.....	0	0	clear	J. R. Williams.
Yankton, Dakota	28.89	733.8	30.23	767.8	32	0.0	78	ne.	3	1.3	.....	.....	10 n	.....	.....	0.01	0.3	light snow	J. H. Atfield.
Yuma, Arizona	29.71	754.6	29.86	758.4	56.3	13.5	56	sw.	5	2.2	.....	0	0	.....	.....	0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.05	560.1	.....	.....	54.5	12.5	91	w.	1.2	0.5	.....	.....	10 n; s	.....	.....	0.04	1.0	cloudy	Joaquin Gomez.
Bridgetown, Barbados, W.I.	30.00	762.0	30.01	762.2	81	27.2	82	e.	.....	.....	.....	5 k	5 ks	e.	e.	0	0	fair	J. A. Tacker.
Buenaventura, U. S. C.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. I. Plume.
Guadeloupe, W. I.	29.92	760.0	29.94	760.5	77	25.0	87	se.	.....	.....	.....	3 c	ks	.....	.....	0	0	.....	B. Bigar.
Havana, Cuba, W. I.	29.93	760.2	29.98	761.5	78	25.6	82	se.	1.2	0.5	.....	2 cs	0	calm	.....	0	0	fair	A. Van Caneghem.
Kingston, Jamaica, W. I.	29.99	761.7	30.00	762.0	75.7	24.3	78	calm	0	0	.....	4 c	0	.....	.....	0	0	fine	Robert Johnston.
Nassau, W. I.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	F. M. Everett.
Paramaribo, S. A.	30.02	762.5	30.03	762.7	79	26.1	82	e.	.....	.....	2	4 c	5 k	e.	e.	0.140	3.6	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Colmba	29.49	749.0	29.95	760.7	79	26.1	82	calm	.....	.....	0	2 ck	8 ks	calm	calm	0	0	cloudy	Miss Flora A. Nichols.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	.....	.....	98	e.	.....	.....	1	3 cs	2 ks	se.	se.	0	0	cloudy	Earl Flint.
Santiago de Cuba, W. I.	29.97	761.2	30.00	762.0	76	24.4	72	calm	0	0	.....	2 c	4 s	.....	se.	0	0	cloudy	Robert Mason.
York Factory, B. A.	29.84	757.9	29.90	759.4	2.0	—16.7	86	se.	10	4.5	.....	.....	10 n	.....	se.	0.03	0.8	snowing	W. Wood.

STATIONS AND VESSELS.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
BRITISH NAVAL.																		
H. M. S. Agincourt, N. 44° 17′, W. 9° 16′	29.69	754.1	59	15.0	97	ssw.			5–6		8	ssw.				5	sw.	d. clouds.
H. M. S Alert, Mahi, Seychelles Islands	29.81	757.2	85.2	29.6	69	s.			2		4							d. clouds.
H. M. S. Alexandra, Malta, Mediterranean	30.01	762.2	61.5	16.4	64	wsw.			4–5		5	w.						squally.
H. M. S. Bacchante, Jaffa, Egypt	29.92	760.0	65	18.3	73	wsw.			4		8	sw.				2	v	showery.
H. M. S. Cleopatra, N. 8° 08′ E. 69° 53′	29.78	756.4	77.5	25.3	95	e.			4		10	calm						d. clouds.
H. M. S. Comus, Pelew Island, Oceania	29.88	758.9	80	26.7	95	ene.			1–2		3	ne.						d. clouds.
H. M. S. Diamond, S 34° 48′, E. 138° 26′	30.10	764.5	64	17.8	83	calm			0		0							blue sky.
H. M. S. Dido, N. 17° 00′, W. 61° 45′	30.08	764.0	78	25.6		ese.			1–2		2	ne.						d. clouds.
H. M. S. Dryad, N. 24° 46′, E. 64° 41′	29.71	754.6				w.			2–3		3	sw.				1	w.	d. clouds.
H. M. S. Eclipse, S. 15° 02′, E. 40° 48′			83	28.3	95	sse.			1		2							d. clouds.
H. M. S. Fawn, N. 15° 04′, E. 42° 14′	29.67	753.6	88	31.1	55	s.			4–5		1						s.	blue sky.
H. M. S. Gannet, S. 33° 01′, W. 71° 37′	30.05	763.3	55	12.8	68	calm			0		0							misty.
H. M. S. Garnet, Montevideo, Uruguay	29.73	755.1	63	17.2	83	s.			5		4							d. clouds.
H. M. S. Inconstant, S. 31° 45′ E. 30° 30′	29.98	761.5	77	25.0	95	wsw.			1		2	ssw.				6	ssw.	d. clouds.
H. M. S. Iron Duke, N. 22° 16′, E. 114° 10′	29.84	757.9	73	22.8	95	calm			0		7	n.						d. clouds.
H. M. S. Lark. S. 10° 51′, E. 162° 26′	29.86	758.4	82.3	27.9		calm			0		4							d. clouds.
H. M. S. Liffey, Coquimbo, Chili	30.02	762.5	60	15.6		calm			0		10							overcast.
H. M. S. Magpie, N. 34° 41′, E. 135° 12′	29.85	758.2	60.6	15.9	93	ne.			1		10							raining.
H. M. S. Malabar, N. 12° 47′ E. 45° 50′	29.81	757.2	82	27.8	91	se.			1		0					1	se.	blue sky.
H. M. S. Nelson, Sydney, N. S. Wales	29.99	761.7	72	22.2	85	calm			0		1	s.						blue sky.
H. M. S. Northampton, Bermuda, W. I.	29.90	759.4	69.5	20.8	77	nw.			4		9	wsw.						d. clouds.
H. M. S. Oronies, N. 36° 17′, E. 13° 58′	29.89	759.2	62.5	16.9	75	wnw.			6		4	w.				5	wnw.	d. clouds.
H. M. S. Pegasus, N. 10° 10′, E. 112° 11′	29.76	758.9	83	28.3	79	sw.			1		0					1	sw.	blue sky.
H. M. S. Rambler, St. Paul de Loando, Benguela	29.86	758.4	79	26.1	95	wsw.			1		4							d. clouds.
H. M. S. Rocket, Esquimalt, Vancouver Island, B. C.	30.21	767.3	39	3.9		nne.			1		2							d. clouds.
H. M. S. Serapis, N. 18° 20′ E. 70° 45′	29.79	756.7	81	27.2	74	nne.			2		0							blue sky.
H. M. S. Superb, N. 39° 32′, E. 20° 03′*	29.79	756.7	54	12.2	73	nw.			3–4		4	wnw.						showery.
H. M. S. Triumph, Valparaiso, Chili	30.05	763.3	52	11.1	93	calm			0		2	calm						d. clouds.
H. M. S. Woodlark, N. 23° 24′, E. 58° 41′	29.79	756.7	82.5	28.1	70	se.			1–2		0							misty.
PORTUGUESE NAVAL.																		
Rio Lima, N. 13° 11′, W. 18° 42′	30.06	763.4	76.1	24.5	88	ne.			2		3		ne.			2		d. clouds.
Tamega, Macao, China	29.87	758.7	78.8	26.0	80	e.			3		8		e.	¼h'r	¼ h'r	1		d. clouds.
UNITED STATES NAVAL.																		
Navy Yard, Pensacola, Fla	29.78	756.4	67	19.4	84	ne.	7	3.1			8		e.	1.05	26.7			fair.
Naval Hospital, Portsmouth, N. H.	29.85	758.2	32	0.0	70	nw.	18	8.0			0			0	0			clear.
Naval Hospital, Yokohama, Japan	29.96	761.0	55	12.8	93	calm			0		10		n.	0.21	5.3			light rain.
Adams, N. 8° 14′, W. 79° 41′	29.83	757.7	79	26.1	91	calm			0		8		n.	0	0	sm'h		cloudy.
Alaska, S. 3° 35′ W. 82° 13′	29.90	759.4	69	20.6	90	se.			2		10		s.	0	0	sm'h		cloudy.
Alert, Kobe, Japan*	29.73	755.1	61	16.1	94	ene.			4		10		calm			sm'h		raining.
Alliance, N. 22° 08′ W. 87° 28′	29.83	757.7	78	25.6	91	sse.			4		2			0	0	sm'h		clear.
Ashuelot, Kobe, Japan	29.35	745.5	60	15.6	94	ne.			3		10		calm					rainy.
Brooklyn, Montevideo, Uruguay	28.76	730.5	63	17.2	94	s.	20	8.9			2		s.	0	0	mod.	s.	clear.
Colorado, New York, N. Y.	30.00	762.0	33	0.6	100	wsw.	7	3.1			0			0	0			clear.
Enterprise, N. 17° 42′, W. 76° 28′*	29.96	761.0	78	25.6	86	ene.			2		2		ne.			sm'h		clear.
Essex, S. 1° 20′, W. 14° 45′	29.93	760.2	80	26.7	87	s.			2		10					long	s.	overcast.
Franklin, Norfolk, Va.	30.17	766.3	37	2.8	53	nnw.	8	3.6			2		wsw.	0	0			fair.
Galena, Leghorn, Italy	29.91	759.7	58	14.4	58	nw.			1		2					sm'h		fair.
Independence, Mare Island, Cal.	29.97	761.2	48	8.9	92	sw.			1		0			0	0			clear.
Kearsage, Samana Bay, Hayti, W. I.	30.04	763.0	77	25.0	95	calm			0		8					sm'h		cloudy.
Lackawanna, Callao, Peru*	29.91	759.7	65	18.3	94	s.			1		2		s.					clear.
Lancaster, Leghorn, Italy*	29.91	759.7	59	15.0	44	nw.			1		2		n.	0	0			fair.
Marion, S. 30° 26′, E. 11° 04′	30.05	763.3	70	21.1	90	ssw.			3		5		calm			long	ssw.	cloudy.
Michigan, Erie, Pa	29.98	761.5	31	— 0.6	100	w.			6		10		nw.					cloudy.
Minnesota, Newport, R. I.	29.94	760.5	35	1.7		w.	4	1.8			0							clear.
Monocacy, Kobe Japan	29.84	757.9	61	16.1	94	ne.			3		10		calm					rainy.
New Hampshire, Newport, R. I.	29.86	758.4	33	0.6	89	w.			5		2			0	0	mod.	w.	fair.
Nipsic, Barcelona Spain	29.97	761.2	63	17.2	72	e.			2		8					sm'h		d. clouds.
Onward. Callao, Peru†	30.08	764.0	63	17.2	100	s.			2		2		n.			long	w.	clear.
Palos, Kobe, Japan	29.83	757.7	60	15.6	94	ene.			4		10		calm					raining.
Passaic, Washington, D. C.	30.16	766.1	34	1.1	?	nw.			1		0							clear.
Pensacola, Callao, Peru	29.98	761.5	65	18.3	84	sse.	2	0.9			2			0	0	sm'h		fair.
Powhatan, N. 17° 03′, W. 75° 46′	30.00	762.0	80	26.7	82	ne.			1		2		e.			sm'h		fair.
Portsmouth, Off Beaver Tail Light, R.I.	29.90	759.4	30	— 1.1	100	w.			6		5?		w.			mod.	nw.	clear ?
Quinnebaug, Leghorn, Italy	29.92	760.0	56	13.3	46	wnw.			3		2		calm	0	0	sm'h		clear.
Ranger, Acapulco, Mexico*	29.85	758.2	77	25.0	73	w.			1		2		nw.	0	0	sm'h		clear.
Richmond, Kobe, Japan*	29.73	755.1	62	16.7	94	ene.			2		10		e.	6.1	155.			raining.
Shenandoah, Aspinwall, Panama*	30.00	762.0	74	23.3	95	se.			1		2		se.			sm'h		hazy.
St. Louis, League Island, Pa	30.27	768.8	32	0.0	90	wnw.	17	7.6			2		wnw.	0	0			clear.
Swatara, Kobe, Japan*	29.64	752.8	61	16.1	88	ne.			2		10					sm'h		light rain.
Tennessee, Port Royal, S. C.	29.94	760.5	64	17.8	100	nne.	14	6.3			10			0	0			overcast.
Vandalia, Port Royal, S. C†	30.14	765.5	63	17.2	94	ne.			3		10		sse.					cloudy.
Wabash, Boston, Mass.	29.87	758.7	32	0.0		w.	8	3.6			2		nw.	0	0			clear.
Wachusetts, Sitka, Alaska	29.84	757.9	33	c.6		calm			0		2					long	e.	cloudy.
Wyoming, Port Royal, S. C.	29.91	759.7	60	15.6	94	n.	16	2.7			10		e.	0	0			overcast.
Yantic, Off Port Royal, S. C.*	29.87	758.7	65	18.3	89	ne.			2		8							fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Polynesian, Liverpool, Eng*	29.52	749.8	58	14.4	.....	sse.	.....	.....	3	.....	10	.....	s.	0	0	.....	.....	overcast.
AMERICAN STEAMSHIP COMPANY.																		
S. S. Illinois, Philadelphia, Pa	29.89	759.2	33	0.6	89	nnw.	.....	.....	5	.....	2	.....	e.	.....	.....	.....	.....	fine.
S. S. Indiana, N. 41° 37′, W. 45° 04′†	30.08	764.0	50	10.0	71	w.	.....	.....	4	.....	8	.....	nw.	light	light	sm'h	.....	cloudy.
S. S. Ohio, N. 43° 50′, W. 38° 57′†	29.82	757.4	55	12.8	100	nne.	.....	.....	4	.....	7	.....	ne.	.....	.....	mod.	nne.	
ANCHOR LINE.																		
S. S. Ethiopia, N. 52° 16′, W. 27° 31′	29.41	747.0	46.5	8.1	92	n.	.....	.....	6	.....	9	.....	ne.	8 h'r	8 h'r	h'vy	ne.	cloudy.
S. S. Galatia, London, England.†	29.48	748.8	.....	.....	.....	sse.	.....	.....	6	.....	3?	.....	sse.	0	0	.....	.....	cloudy?
S. S. India, N. 34° 53′ E. 19° 11′*	29.90	759.4	62	16.7	88	wnw.	.....	.....	5	.....	3	.....	.....	.....	.....	.....	.....	fair.
ATLAS LINE.																		
S. S. Alvo, Savanilla, U. S. O	29.81	757.2	.....	.....	.....	ene.	.....	.....	6	.....	5	.....	ne.	0	0	.....	.....	
S. S. Arden, N. 10° 40′, W. 71° 38′	.....	.....	.....	.....	.....	ne.	.....	.....	1	.....	2	.....	ne.	.....	.....	.....	.....	fine.
S. S. Athos, Port Antonio, Jamaica, W. I	29.47	748.5	.....	.....	.....	calm	.....	.....	0	.....	0	.....	.....	1 h'r	1 h'r	.....	.....	clear.
S. S. Claribel, N. 25° 13′, W. 74° 18′*†	30.10	764.5	76	24.4	86	s.	.....	.....	2	.....	5	.....	ssw.	0	0	sm'h	.....	fine.
BOSTON AND HALIFAX LINE.																		
S. S. Carroll, Boston, Mass†	29.76	755.9	.....	.....	.....	nnw.	.....	.....	.....	.....	.....	.....	.....	0	0	.....	.....	fair.
BRITISH METEOROLOGICAL OFFICE.																		
S. S. Arran, S. 5° 48′, W. 25° 11′	29.94	760.5	79.5	26.4	82	sse.	.....	.....	1	.....	10	.....	.....	.....	.....	.....	.....	overcast.
Baroda, N. 4° 17′ F. 83° 44′	29.80	756.9	82.5	28.1	83	w.	.....	.....	1	.....	5	.....	.....	.....	.....	.....	.....	d. clouds.
British Merchant, S. 5° 26′ E. 88° 14′	29.76	755.9	81	27.2	80	nw.	.....	.....	4	.....	7	.....	.....	.....	.....	.....	.....	gloomy.
Bk Caldew, N. 49° 30′, W. 7° 20′	29.58	751.3	54 4	12.4	.....	s.	.....	.....	5	.....	10	.....	.....	.....	.....	.....	.....	misty.
Bk. Commewyne, N. 55° 02′, W. 15° 25′	29.38	746.2	51.9	11.1	76	ese.	.....	.....	4	.....	10	.....	.....	.....	.....	.....	.....	raining.
S. S. Hermine, N. 12° 05′, W. 37° 14′	30.00	762.0	73.8	23.2	90	n.	.....	.....	6	.....	10	.....	.....	.....	.....	.....	.....	raining.
CUNARD LINE.																		
S. S. Bothnia, N. 49° 45′ W. 26° 56′	29.28	743.7	.....	.....	.....	nne.	.....	.....	8	.....	8	.....	n.	1 h'r	1 h'r	h'vy	sw.	threatening.
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. Canada, N. 47° 40′, W. 29° 06′	29.26	743.2	46.4	8.0	.....	nnw.	.....	.....	5	.....	5	.....	n.	4 h'r	4 h'r	.....	sw.	
GUION LINE.																		
S. S. Arizona, N. 51° 00′, W. 14° 57′	29.32	744.7	50	10.0	.....	ese.	.....	.....	6	.....	10	.....	se.	10 h'r	10 h'r	mod.	sw.	raining.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Gellert, N. 47° 15′, W. 31° 52′	29.90	759.4	52	11.1	.....	nne.	.....	.....	4	.....	10	.....	ne.	0	0	long	w.	
S. S. Lessing, New York, N. Y	29.97	761.1	31	−0.6	.....	nw.	.....	.....	4	.....	5	.....	nw.	0	0	.....	.....	
S. S. Silesia, N. 41° 51′, W. 54° 59′*†	29.69	754.1	52.7	11.5	.....	se.	.....	.....	6	.....	10	.....	sw.	4 h'r	4 h'r	5	sse.	raining.
INMAN LINE.																		
S. S. City of New York, N. 45° 29′, W. 38° 48′	29.63	752.6	.....	.....	.....	n.	.....	.....	3	.....	2	.....	n.	2 h'r	2 h'r	h'vy	nne.	clear.
JOHNSTON LINE.																		
S. S. Thanemore, N. 39° 02′, W. 65° 17′	29.94	760.5	.....	.....	.....	n.	.....	.....	5	.....	8	.....	n.	10 h'r	10 h'r	slight	e.	cloudy.
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, N. 39° —′, W. 15° —′*†	29.90	759.4	66	18.9	.....	ssw.	.....	.....	4	.....	9	.....	wsw.	1 h'r	1 h'r	long	wsw.	fine.
S. S. Humboldt, N. 20° 05′, W. 24° 08′*	30.05	763.3	68.2	20.1	70	ne.	.....	.....	4	.....	6	.....	.....	0	0	3	con.	d. clouds.
MALLORY LINE.																		
S. S. Colorado, Galveston, Texas†	29.63	752.6	71	21.7	.....	se.	.....	.....	6	.....	5	.....	se.	2 h'r	2 h'r	.....	.....	fair.
MERCHANTS' EXPRESS LINE.																		
S. S. Hermod, N. 42° 42′, W. 55° 00′.†*	29.30	744.2	50.0	10.0	.....	sw.	.....	.....	6	.....	10	.....	w.	4 h'r	4 h'r	cross	w.	foggy.
NATIONAL LINE.																		
S. S. Canada, N. 45° 10′, W. 33° 33′†	29.72	754.9	57	13.9	.....	n.	.....	.....	4	.....	10?	.....	nw.	2 h'r	2 h'r	long	ne.	clear?
S. S. England, Liverpool, Eng	29.64	752.8	.....	.....	.....	ese.	.....	.....	3	.....	5?	.....	.....	0	0	.....	.....	cloudy.?
S. S. Erin, London, England	29.75	755.6	62	16.7	.....	sse.	.....	.....	4	.....	8	.....	w.	0	0	.....	.....	fine.
S. S. Helvetia, N. 41° 04′, W. 57° 52′	29.78	756.4	49	9.4	.....	wnw.	.....	.....	4	.....	9	.....	wnw.	sh'rs	shr's	high	e.	cloudy.
S. S. Holland, N. 49° 10′, W. 13° 29′	29.22	742.2	53	11.7	.....	sse.	.....	.....	7	.....	10	.....	sse.	12 h'r	12 h'r	r'gh	sse	raining.
S. S. Italy, N. 45° 09′, W. 42° 20′	29.96	761.0	.....	.....	.....	ne.	.....	.....	1	.....	5?	.....	nnw.	0	0	h'vy	nne.	clear.?
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Niagara, Havana, Cuba, W. I.†	30.00	762.0	84	28.9	.....	se.	.....	.....	2	.....	1	.....	.....	0	0	.....	.....	clear.
S. S. Santiago, Jagua, Cuba, W. I.†	30.02	762.5	78	25.6	.....	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	.....	fine.
NEW YORK HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, N. 23° 12′, W. 83° 31′*†	29.90	759.4	78	25.6	.....	se.	.....	.....	4	.....	2	.....	se.	0	0	mod.	sse.	clear.
S. S. City of Puebla, N. 22° 43′, W. 86° 55′†	29.79	756.7	78	25.6	.....	sse.	.....	.....	2	.....	2	.....	s.	.....	.....	g'ntle	se.	
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Atlas, Jaomel, Hayti, W. I.*†	30.09	764.3	78	25.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	sm'h	.....	clear.
S. S. City of Washington, N. 38° 40′, W. 74° 20′*†	30.15	765.8	45	7.2	.....	nw.	.....	.....	3	.....	.....	.....	.....	.....	.....	sm'h	.....	fine.
S. S. Lepanto, N. 40° 30′, W. 68° 14′*.	29.89	759.2	32	0.0	.....	w.	.....	.....	6	.....	.....	.....	.....	.....	.....	.....	w.	clear.
S. S. New York, N. 29° 10′, W. 80° 25′*†	30.00	762.0	70	21)	.....	sw.	.....	.....	3	.....	.....	.....	.....	.....	.....	sm'h	.....	cloudy.
S. S. P. Caland, N. 42° 56′ W. 49° 44′	29.86	758.4	38.3	3.5	.....	se.	.....	.....	3	.....	.....	.....	.....	.....	.....	1	se.	
NORTH GERMAN LLOYD.																		
S. S. Graf Bismarck, N. 29° 11′, W. 15° 39′	30.18	766.6	68.0	20.0	.....	e.	.....	.....	2	.....	2	.....	ene.	0	0	sm'h	ene.	fair.
S. S. Hermann, N. 46° 06′, W. 36° 20′†.	29.61	752.1	55.4	13.0	.....	n.	.....	.....	6	.....	4	.....	n.	0	0	hv'y	n.	fair.
S. S. Hohenzollern, N. 20° 24′, W. 23° 43′*	30.04	763.0	72.5	22.5	.....	nne.	.....	.....	4	.....	8	.....	ne.	0	0	mod.	ne.	fair.
S. S. Koln, N. 40° 01′, W. 59° 26′	29.77	756.1	55.5	13.1	84	nw.	.....	.....	5	.....	8	.....	nw.	8 h'r	8 h'r	r'gh	w.	cloudy.
S. S. Leipzig, N. 40° 49′, W. 52° 45′	29.79	756.7	50.0	13.3	93	sse.	.....	.....	5	.....	10	.....	s.	5 h'r	5 h'r	mod.	sse.	hazy.
S. S. Neckar, N. 40° 59′ W. 52° 08′	29.79	756.7	57.2	14.0	.....	se.	.....	.....	5–6	.....	9	.....	sse.	0	0	mod.	sse.	covered.
S. S. Oder, N. 49° 47′, W. 7° 49′	29.53	750.0	52.7	11.5	.....	sw.	.....	.....	4	.....	2	.....	sw.	0	0	sm'h	.....	fair.
S. S. Ohio, Baltimore, Md	30.14	765.5	.....	.....	.....	w.	.....	.....	2	.....	0	.....	.....	0	0	.....	.....	clear.
S. S. Rhein, New York Bay, N. Y	29.95	760.7	.....	.....	.....	w.	.....	.....	1–2	.....	3	.....	w.	0	0	.....	.....	fair.
S. S. Salier, N. 46° 21′, W. 39° 46′	29.90?	759.4?	49.1	9.5	.....	ne.	.....	.....	6	.....	2	.....	ne.	4 h'r	4 h'r	mod.	ne.	clear.
S. S. Strassburg, N. 39° 57′, W. 67° 56′	29.90	759.4	41.5	5.3	96	nw;w.	.....	.....	5	.....	6	.....	wnw.	1 h'r	1 h'r	mod.	nw.	cloudy.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Belgic, San Francisco, Cal†	30.07	763.8	46	7.8	92	calm	.....	.....	0	.....	0	.....	.....	0	0	sm'h	.....	clear.
S. S. Oceanic, N. 32° 53′, E. 134° 20′*	29.77	759.1	69	20.6	90	sse.	.....	.....	7	.....	8	.....	se.	.....	.....	5	sse.	gloomy.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, Savannah, Ga†	29.93	760.2	.....	.....	.....	nne.	.....	.....	2	.....	10	.....	ne.	0	0	.....	.....	smoky.
S. S. Seminole, Boston, Mass.†	29.77	756.1	36	2.2	80	nw.	.....	.....	6	.....	8	.....	nw.	0	0	.....	.....	fair.
OREGON IMPROVEMENT COMPANY.																		
S. S. Mississippi, Seattle, Wash. Ter.†	30.27	768.8	40	4.4	82	calm	.....	.....	0	.....	2	.....	nw.	.....	.....	.....	.....	fair.
S. S. Willamette, Seattle, Wash. Ter.*†	30.28	769.1	49	9.4	71	calm	.....	.....	0	.....	1	.....	w.	0	0	.....	.....	fine.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. City of Chester, N. 57° 25′, W. 134° 42′*†	30.02	762.5	33	0.6	?	calm	.....	.....	0	.....	0	.....	.....	.....	.....	sm'h	.....	clear.
S. S. Oregon, N. 59° 09′, W. 124° 13′†	30.23	767.8	47	8.3	85	nne.	.....	.....	1	.....	0	.....	.....	.....	.....	light	nw.	clear.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, San Francisco, Cal†	30.06	763.5	44	6.7	92	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	clear.
S. S. Idaho, N. 43° 40′, W. 124° 45′†	30.16	766.1	49	9.4	93	sse.	.....	.....	3	.....	0	.....	.....	.....	.....	light	sw.	clear.
S. S. State of California, Portland, Oregon †	30.21	767.3	38	3.3	100	n.	.....	.....	2	.....	0	.....	.....	.....	.....	.....	.....	clear.
S. S. Victoria, N. 41° 48′, W. 124° 22′†	30.13	765.2	45	7.2	92	nw.	.....	.....	2	.....	0	.....	.....	0	0	sm'h	.....	clear.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, Sydney, N. S. W	29.95	760.7	66	18.9	74	w.	.....	.....	3	.....	5?	.....	w.	.....	.....	.....	.....	cloudy.?*
S. S. City of New York, Sydney, N. S. W.†	30.05	763.3	71	21.7	95	s.	.....	.....	2	.....	0	.....	.....	0	0	.....	.....	clear.
S. S. City of Pekin, Punta Arenas, Costa Rica†	29.91	759.7	78	25.6	82	n.	.....	.....	1	.....	.....	.....	.....	.....	.....	sm'h	.....	fair.
S. S. City of Rio de Janeiro, N. 18° 09′, W. 103° 35′*†	30.13	765.3	70	21.4	91	n.	.....	.....	2	.....	8	.....	n.	.....	.....	sm'h	nnw.	cloudy.
S. S. City of Sydney, N. 21° 42′, W. 151° 56′†	30.14	765.5	69	20.6	85	e.	.....	.....	4	.....	5	.....	ne.	0	0	mod.	ne.	fair.
S. S. City of Tokio, N. 36° 32′, W. 140° 58′†	30.32	770.1	58	14.4	88	sw.	.....	.....	5	.....	8	.....	ese.	0	0	small	sw.	cloudy.
S. S. Colon, Aspinwall, Panama†	29.90	759.4	74	23.3	.....	sse.	.....	.....	2	.....	0	.....	.....	0	0	sm'h	.....	clear.
S. S. South Carolina, Panama, Panama†	29.95	760.7	78	25.6	91	calm	.....	.....	0	.....	2	.....	ne.	0	0	sm'h	.....	fine.
S. S. Zelandia, N. 36° 53′, W. 125° 16′†	30.18	766.6	52	11.1	86	nw.	.....	.....	2	.....	10	.....	nw.	.....	.....	mod.	nw.	foggy.
QUEBEC S. S. COMPANY.																		
S. S. Muriel, St. Lucia, W. I	30.06	763.5	80	26.7	.....	ene.	.....	.....	3	.....	0	.....	.....	0	0	sm'h	.....	fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.			Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	Force.	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
Red Star Line.																		
S. S. Belgenland, Antwerp, Belgium†	29.59	751.6	53	11.7	61	ese.			4		5		s.	0	0			fair.
S. S. Nederland, N. 39° 55′, W. 54° 58′*†	30.25	768.3	64	17.8		s.			3		10		w.	1 h'r	1 h'r	sm'h	sw.	covered.
S. S. Rhynland, N. 49° 38′, W. 15° 58′†.	29.07	738.4	54	12.2	87	se.			4		10		se.	0.3	8.	long	w.	cloudy.
S. S. Switzerland, N 40° 02′, W. 53° 05′†.	29.73	755.1				s.			4		10		s.	6 h'r	6 h'r	hv'y	sse.	cloudy.
S. S. Vaderland, N. 49° 02′, W. 12° 12′	29.48	748.8	56	13.3	81	s.			6		10			5 h'r	5 h'r	mod	sw.	drizzling
S. S. Waesland, Jersey City, N. J.	29.95	760.7	34	1.1		w.			5		5		w.	c	o			fair.
Rotterdam Line.																		
S. S. Schiedam, New York, N. Y.*	29.84	757.9	48.2	9.0	75	w.			4		4		w.	o	o			fair.
State Line.																		
S. S. State of Florida, N. 45° 18′, W. 38° 12′	29.83	757.7	55	12.8		ne.			3		4		ne.	1 h'r	1 h'r	r'gh	ne.	hazy.
Thingvalla Line.																		
S. S. Thingvalla, Copenhagen, Denmark†	30.08	764.0	43.7	6.5		nne.			2		3		nne.	o	o.			clear.
White Cross Line.																		
S. S. Germanic, N. 39° 54′, W 70° 22′†	29.95	760.7				w.			5		4 8			snow	snow	long	w.	fair.
White Star Line.																		
S. S. Adriatic, N. 47° 36′, W, 33° 48′†	29.68	753.9	48	8.9		nne.			6		10		nne.	o	o	mod.	n.	misty.
S. S. Celtic, Queenstown, Ireland†	29.49	749.0	52	11.1		sse.			6		10		se.	12 h'r	12 h'r	sm'h		cloudy.
Wilson Line.																		
S. S. Romano, N. 44° 04′ W. 41° 52′*†	29.71	754.6	51	10.6		w.					6		nw.	o	o	mod.		cloudy.
Winsor Line.																		
S. S. Catherine Whiting, Philadelphia, Pa.†	30.04	763.0				nw.			2		o			o	o			
Miscellaneous.																		
Sch. Addie Fuller, N. 24° 57′ W. 79° 45′†	30.05	763 3	76.5	24.7	93	sw.			1	1 c	1 k			o	o	sm'h		clear.
Bk. Adelaide, Rio de Janeiro, Brazil*†	30.00	762.0	82	27.8		se.												
Schr. Ajax, N. 30° 08′, W. 88° 12′†	29.97	761.2				ne			1		10		se.	3 h'r	3 h'r	sm'h		cloudy.
Bk. Alpha, N. 24° 23′, W. 67° 30′†.	29.97	761.2	75	23.9		s.			3		2		s.	o	o	sm'h		fair.
Bk. Antioch, S. 33° 47′, W. 15° 35′*†	30.05	763.3	71	21.7		wnw.			5		10		wnw.	o	o	sm'h	wsw.	overcast.
Schr Asa Eldridge, Sand Key Lighthouse, Fla†.	30.00	762.0				sse.			3		5		se.	o	o			fair.
Bk. Aureola, N. 17° 53′, W. 34° 07′*†	30.26	768 6	80	26.7		ene.			5		1		ene.	o	o	mod.	e.	clear.
Schr. Annie M. Smull, S. 41° 21′, E. 22° 50′*†	29.85	758.2	60	15.6		wsw.								o	o			
Bk. Bergenseren, N. 38° 40′ E. 0° 20′†	29.95	760.7				ssw.			1		hz.			o	o			hazy.
Carrie Heckle, N. 24° 59′, W. 67° 55″†.	30.16	766.1	77	25.0		calm			0		0			o	o	sm'h	ssw.	clear.
Bk. Celestina, S. 24° 45′, W. 38° 22′*†.	29.06	738.1				n.			3		3		nne.	o	o	light	ssw.	fine.
Bk. Champion, N. 40° 00′, W. 51° 00′†	29.96	761.0				ssw.			5		10		sw.	8 h'r	8 h'r	long	sw.	
Dora, N. 25° 24′, W. 84° 40′†	30.00	762.0	77.7	25.4		sse.			5		3		sse.	o	o	mod.	sse.	fair.
Bk. E. L. Pettingill, N. 20° 50′, W. 129° 42′†	30.20	767.1				ne.			5		5		ne.	shr's	sh'rs	r'gh	nne.	d clouds.
S. Enoch Train, N. 48° 32′ W. 31° 30′*.	29.42	747.3				ne.			8		8		ne.	sh'rs	shr's	h'vy	con.	overcast.
S. Exporter, N. 23° 15′, W. 30° 00′*†	30.30	769.6				e.			3		1		ne.	o	o	long	nne.	fine.
S. Festina Lente, N. 45° 50′, W. 41° 51′*	29.89	759.2	52	11.1		ne.			3		3		ne.	o	o	long	nne.	misty.
U.S.F.C.S.S.Fish Hawk, Quantico, Va†	30.22	767.6	35	1.7	70	wsw.			2		1		calm.	o	o			clear.
S. Grecian, S. 37° 48′ W. 15° 16′*†	29.95	760.7	64	17.8		wnw.			6		o			o	o	long	sw.	hazy.
Bk. Freya, N. 37° 07′ W. 59° 47′			62	16.7		nnw.			5		5		wnw.	8 h'r	8 h'r	sm'h		fair.
Bk. Granville, S. 36° 52′, E. 18° 01′*†	30.10	764.5				w.			1				w.	o	o	long	wsw.	cloudy.
Schr. Hattie G. McFarland, Baltimore, Md*†	30.10	764.5	36	2.2		nw.			3		2		nw.	o	o			clear.
Schr. Henry Denison, Port Antonio, Jamaica†	29.96	761.0				ene.			1–3		2		e.	o	o			fine.
S. Hedwig, N. 43° 13′, W. 42° 19′	29.95	760.6	50.2	10.1	86	nw.			3		9		nw.	o	o	3	n.	cloudy.
Schr. John L. Thomas, N. 24° 05, W. 70° 03′*†	30.10	764.5				sse					3		s.	o	o	mod.	nw.	fine.
Bg. John Wesley, Sagua La Grande, Cuba, W. I.†	29.82	757.4	78	25.6		se.			2		1			o	o			clear.
Bk. Jona, N. 37° 40′, W. 53° 35′*†	30.00	762.0				ssw.			3		10		ssw.	o	o	mod.	var.	cloudy.
Bkt. Josephine, As inwall, Panama*†	30.03	762.7	79	26.1	73	sse.			2		o			o	o			clear.
S. Lake Erie, N. 39° 00′, W. 65° 00′	29.80	756.9				wnw.			5		10?		n.	o	o	cross		clear.?
Bk. Liberia, N. 27° 12′, W. 26° 50′*†	30.20	767.1	76	24.4	76	nw.			1		8			o	o	long	nw.	fine.
Light House Tender, Laurel, Key West, Fla.†	29.95	760.7	77	25 0		se.			2		4		w.	o	o			fair.
Schr. Maggie Abbot, N. 31° —′, W. 70° —′*†	29.96	761.0				nne.								o	o	hv'y	w.	clear.
S. S. Malabar, N. 39° 11′ W. 9° 23′*†	29.87	758.7				s.			4		5?		s.	o	o	mod.	nw.	cloudy.?
Bg. Medina, Key Francis, W. I.†	30.07	763.8				s.			1		o							fine.
S. S. Nebo, Rio de Janeiro, Brazil*†	29.79	756.7				n.			1		1		n.	o	o			clear.
S. S New York, N. 38° 34′, E. 60 47′*†	30.10	764.5				w.			3				w.	o	o	h'vy	nw.	fair.
Bk. Peppina, N. 46° 20′, W. 5° 17′†	29.76	755.9	59	15.0	87	wsw.			5		2		w.			long	wnw.	fair.
S. S. Radnorshire, N. 40° 58′, W. 34° 09′*†	29.62	752.3				n.			6		5		nne.	o	o	long	nnw.	stormy.
S. Salisbury, N. 18° 07′ W. 37° 07′*.	30.15	765.9	76.1	24.5	80	e.			4		3		e.	o	o	mod	ese.	clear.
Bkt. Spotless, S. 0° 15′, W. 28° 51′*†	29.90	759.4				nw.							n.			mod.	sse.	raining.
Bk. Stella, S. 53° 57′, W. 81° 50′*†	29.34	745.2	41.7	5.4	94	wsw.			6		6		w.	o	o	r'gh	w.	squally.
S. S. Victoria J Peed, Barranquila, U. S.C*†	29.11	739.4				nne.			2		8							
Washington, N. 40° 00′, W. 69° 15′*†	29.89	759.2				wnw.			4		2		wnw.	o	o	sm'h		fair.
S. Wm. Woodbury, N. 44° 29′, W. 35° 24′*†	29.57	751.1	56	13.3		nw.			7				w.			hv'y	w.	cloudy.

International Chart I. April 12, 1882. Isobars and Isotherms.



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON APRIL 13, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours	.....	.....	29.92	759.9	77.7	25.4	78	W.	.....	.....	3	.....	0	.....	.....	0	0	clear	Moiroud
Algiers	.....	.....	29.93	760.1	71.2	21.8	54	W.	.....	.....	2	.....	1	.....	.....	0	0	very fair	Nicolas.
La Calle	.....	.....	29.92	759.9	67.6	19.8	72	nne.	.....	.....	2	.....	1	.....	.....	0	0	very fair	Fonfrède.
Tunis	.....	.....	29.95	760.8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.03	762.8	83.5	28.6	16	ese.	.....	.....	2	.....	0	.....	.....	0	0	clear	Dumas.
Tebessa	.....	.....	30.04	762.9	68.7	20.4	29	sw.	.....	.....	2	.....	2	.....	.....	0	0	fair	Derché.
Gertville	.....	.....	.....	.....	79.2	26.2	12	W.	.....	.....	3	.....	0	.....	.....	0	0	clear	Louchamp.
Laghouat	.....	.....	30.07	763.7	82.4	28.0	72	W.	.....	.....	2	.....	0	.....	.....	0	0	clear	Abraham.
Biskra	.....	.....	30.04	763.1	86.4	30.2	22	nw.	.....	.....	1	.....	0	.....	.....	0	0	clear	Malau.
Australian.																			
Melbourne, Victoria	29.96	761.0	30.05	763.3	52.0	11.1	80	ese.	4	1.8	.....	.....	1	.....	.....	0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.41	747.1	29.97	761.1	53.6	12.0	39	sw.	.....	.....	3	.....	3	.....	.....	0	0	.....	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.05	737.8	29.82	757.3	51.4	10.8	41	wnw.	6.9	3.1	.....	.....	6	.....	.....	0	0	.....	Dr. Wierzbiski.
Eperies	28.94	735.1	29.82	757.3	53.6	12.0	57	calm	.....	.....	0	0	7 s	.....	.....	0	0	.....	Julius Mikolik.
Gratz	28.66	727.9	29.91	759.7	53.4	11.9	43	s.	.....	.....	2	.....	0	.....	.....	0	0	.....	Andreas Rospini.
Hermannstadt	28.41	721.7	29.84	757.8	55.0	12.8	38	nnw.	.....	.....	2	.....	1	.....	.....	0	0	.....	Prof. A. Gottschling
Kremsmunster, Obs'y	28.52	724.5	29.89	759.2	43.2	6.2	57	ene.	.....	.....	1	1 c	0	.....	.....	0	0	clear	The Staff.
Lemberg	28.82	732.0	29.80	756.9	52.2	11.2	50	s.	.....	.....	1	.....	8	.....	.....	0.083	2.1	.....	Dr. T. Stanecki.
Pola	29.91	759.7	30.02	762.6	55.4	13.0	51	nw.	.....	.....	2	.....	3	.....	.....	0	0	.....	I. R. Hydrographic Office.
Szathmar	29.37	746.1	29.84	757.9	56.1	13.4	42	w.	.....	.....	3	.....	0	.....	.....	0	0	.....	Joseph Midlinszky, S. J.
Szegedin	29.61	752.2	29.89	759.3	52.9	11.6	67	nw.	.....	.....	2	.....	4	.....	.....	0	0	.....	Karl Stancel.
Trieste	29.93	760.3	30.04	762.9	55.8	13.2	39	sw.	.....	.....	1	.....	0	.....	.....	0	0	.....	Rieder.
Vienna	29.19	741.4	29.91	759.7	50.4	10.2	50	calm	.....	.....	0	.....	2	.....	.....	0	0	.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.51	749.5	29.61	752.1	39.6	4.2	73	e.	36	16.1	.....	.....	10	.....	.....	0.860	21.8	squally	W. Boswell.
Armagh, Observatory	28.90	734.0	29.14	740.1	52.6	11.4	.....	se.	16	7.2	.....	.....	7	.....	.....	.....	.....	d. clouds	S. Call.
Bidston, Liverpool Obs'y	.....	.....	29.20	741.7	55.2	12.9	85	ese.	22	9.8	.....	.....	5	.....	.....	.....	.....	d. clouds	John Hartnup.
Bolton, Sharples	28.73	729 7	29.25	742.9	49.5	9.7	93	ese.	13	5.8	.....	.....	10	.....	.....	.....	.....	misty	Thomas Mackereth. [A.S.
Bradford, Yorkshire	28.87	733.3	29.26	743.2	47.7	8.7	97	se.	.....	.....	2	.....	10	.....	.....	0.50	12.7	overcast	J. McLandsborough, F. R
Bridgetown, Barbadoes	29.93	760.2	29.96	761.0	84.0	28.9	67	ne.	.....	.....	2	.....	3	.....	.....	.....	.....	d clouds	Corpl. J. Surgenor, A. H.C.
Cardington	.....	.....	29.31	744.5	52.0	11.1	96	s.	.....	.....	1.0	.....	10	.....	.....	.....	.....	raining	John McLaren.
Chatham, School M. E	29.25	742.9	29.38	746.2	49.9	9.9	94	s.	.....	.....	3	.....	10	.....	.....	.....	.....	raining	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	28.94	735.1	29.16	740.7	54.9	12.7	92	sse.	.....	.....	3	.....	10	.....	.....	.....	.....	foggy	The Staff.
Fort Napier, Natal	27.56	700.0	29.78	756.4	85.0	29.4	64	ne.	.....	.....	2	.....	9	.....	.....	.....	.....	blue sky	Pvt. E. K Annis, A.H.C.
Free Town, Sierra Leone	29.57	751.1	29.80	756.9	87.0	30.6	65	w.	.....	.....	1	.....	0	.....	.....	.....	.....	d. clouds	Sergt. John Robinson.
Gibraltar, Mediterranean	29.92	760.0	29.97	761.2	70.4	21.3	71	sw.	.....	.....	3	.....	3	.....	.....	.....	.....	blue sky	Cpl. O. Baldwin.
Glasgow, Observatory	29.16	740.7	29.36	745.7	39.8	4.3	87	e.	.....	.....	4	.....	0	.....	.....	.....	.....	raining	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.16	740.7	29.34	745.2	51.6	10.9	90	sse.	.....	.....	4	.....	10	.....	.....	.....	.....	drizzling	The Staff.
Guernsey	28.95	735.3	29.24	742.7	52.3	11.3	97	sse.	19	8.5	.....	.....	10	.....	.....	.....	.....	drizzling	A. Collenette, F. M. S.
Kew, Observatory	29.30	744.2	29.34	745.2	52.3	11.3	83	s.	.....	.....	1	.....	10	.....	.....	.....	.....	threatening	The Staff.
Leicester, Museum	29.03	737.3	29.28	743.7	52.5	11.4	89	w.	.....	.....	2	.....	10	.....	.....	.....	.....	raining	J. C. Smith.
Malta, Mediterranean	29.93	760.2	30.01	762.2	61.0	16.1	57	sw.	.....	.....	3	.....	3	.....	.....	0.44	11.2	blue sky	I. H. Whysall.
Nassau, Bahamas	29.88	758.9	29.93	760.2	80.2	26.8	82	se.	.....	.....	3	.....	8	.....	.....	0.245	6.2	d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	28.75	730.2	29.26	743.2	51.0	10.6	94	se.	.....	.....	3	.....	10	.....	.....	.....	.....	overcast	John Mac Emall.
Oxford, Radcliffe Obs'y	29.06	738.1	29.29	744.0	52.7	11.5	89	se.	.....	.....	3	.....	10	.....	.....	.....	.....	overcast	The Staff.
Plymouth	29.12	739.6	29.19	741.4	55.6	13.1	88	se.	.....	.....	4	.....	10	.....	.....	.....	.....	overcast	John Merrifield.
Sandwick Manse, Orkneys	.....	.....	29.71	754.6	39.1	3.9	99	e.	35	15.6	.....	.....	10	.....	.....	.....	.....	misty	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.66	753.4	29.73	755.1	54.6	12.6	53	ne.	.....	.....	2	.....	2	.....	.....	.....	.....	d. clouds	W. H. Lyne.
Sheffield	29.02	737.1	29.30	744.2	49.9	9.9	96	sse.	.....	.....	1	.....	10	.....	.....	0.44	11.2	drizzling	W. F. Cooper.
Silloth Rectory	29.23	742.4	29.26	743.2	47.5	8.6	90	se.	.....	.....	3	.....	10	.....	.....	0.245	6.2	overcast	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	29.29	744.0	49.2	9.6	87	se.	12	5.4	.....	.....	10	.....	.....	.....	.....	overcast	Rev. S. J. Perry.
Stratfield Turgiss	29.11	739.4	29.32	744 7	51.5	10.8	91	s.	.....	.....	3	.....	10	.....	.....	.....	.....	raining	Rev. C. H. Griffiths, F.M.S.
Truro, Royal Institution	29.02	737.1	29.05	737.9	59	15.0	81	se.	.....	.....	6	.....	10	.....	.....	.....	.....	raining	W. Newcombe.
Valencia, Observatory	28.82	732.0	28 84	732.5	55.2	12.9	77	se.	40	17.9	.....	.....	6	.....	.....	blank	blank	d. clouds	The Met'g'l Office.
Canadian.																			
Bathurst, N. B	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.47	748.5	29.52	749.8	30	— 1.1	83	s.	12	5.4	.....	.....	10 s	.....	sw.	0.020	0.5	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	29.33	745.0	29.39	746.5	27	— 2.8	77	s.	12	5.4	.....	.....	10 s	.....	s.	0	0	cloudy	G. A. Blair.
Father Point, Quebec*	29.18	741.2	29.21	741.9	29	— 1.7	96	sw.	25	11.2	.....	.....	10 n	.....	.....	0.10	2.5	heavy snow	J. McWilliams.
Fort Garry, Manitoba*	29.59	751.6	30.47	773.9	26	— 3.3	96	n.	4	1.8	.....	0	0	.....	.....	0	0	clear	James Stewart.
Halifax, N. S*	29.50	749.3	29.63	752.6	35	1.7	69	sw.	13	5.8	.....	0	0	.....	.....	0.010	0.3	clear	A. Allison.
Kingston, Ontario*	29.45	748.0	29.80	756.9	33	0.6	78	w.	13	5.8	.....	2 ok	0	nw.	.....	0.02	0.5	fair	A. P. Knight, M. A.
Montreal, Quebec*	29.38	746.2	29.59	751.6	34	1.1	74	w.	20	8.9	.....	.....	10 s	.....	.....	0.17	4.3	cloudy	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.20	741.7	29.91	759.7	33	0.6	88	nw.	14	6.3	.....	5 k	2 ks	nw.	nw.	0	0	fair	Rev. R. Mosley.
Port Dover, Ontario	29.28	743.7	30.00	762.0	35	1.7	80	sw.	8	3.6	.....	.....	10 ks	.....	.....	0	0	cloudy	H. Morgan.
Port Stanley, Ontario	29.35	745.5	30.02	762.5	34	1.1	78	w.	8	3.6	.....	.....	10 n	.....	nw.	0	0	cloudy	M. Payne.
Quebec, Quebec*	29.09	738.9	29.42	747.3	29	— 1.7	88	nw.	.....	.....	6	.....	10 s	.....	nw.	0	0	cloudy	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.34	745.2	29.82	757.4	31	— 0.6	74	nw.	8	3.6	.....	.....	8 s	.....	nw.	0.05	1.3	cloudy	W. H. McIntyre.
Saugeen, Ontario*	29.23	742.4	29.97	761.2	35	1.7	79	nw.	13	5.8	.....	.....	10 ks	.....	.....	0	0	cloudy	
St. Andrews, N. B	29.43	747.5	29.48	748.8	35	1.7	78	w.	7	3.1	.....	2 k	8 k	w.	nw.	0	0	fair	
Sydney, C. B*	29.57	751.1	29.63	752.6	33	0.6	71	sw.	22	9.8	.....	8 c	0	sw.	.....	0	0	fair	T. C. Hill, C. E.
Toronto, Ontario*	29.54	750.3	29.94	760.5	37	2.8	69	nw.	11	4.9	.....	.....	10 ks	.....	nw.	0	0	cloudy	Magnetic Observatory.
Yarmouth, N. S*	29.55	750.6	29.62	752.3	35	1.7	85	sw.	14	6.3	.....	0	8 k	.....	sw.	0.02	0.5	fair	Lt. F. E. Wilmot, R. N.
Sub-series.																			
St. Johns, Newfoundland	29.68	753.9	29.94	760.5	32	0.0	100	s.	2	0.9	.....	5 k	5 s	.....	.....	0.15	3.8	.....	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	29.97	761.2	30.00	762.0	67.0	19.4	78	w.	9.9	4.4	.....	0	4 k	.....	.....	0	0	hazy	John Duthie.
Cape Town, C. G. H. Obs'y	30.04	763.0	30.08	764.0	74.5	23.6	66	sse.	12	5.4	.....	2	2	.....	.....	0	0	.....	The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	OBSERVERS.
Chinese (Sub-series).																			
Hankow	30.15	765.8	30.43	772.9	56.0	13.3	64	n.	.....	.....	2	.....	0	.....	.....	0.99[a]	25.1[a]	.....	N. Titoushkin.
Zi-Ka-Wei, near Shanghai.	30.18	766.6	30.21	767.2	46.4	8.0	82	ne.	1.8	0.8	.....	.....	4 k	.....	.....	0	0	cloudy	M. Marc Dechevrens, S.J.
Danish.																			
Copenhagen	29.77	756.1	29.82	757.3	36.5	2.5	58	ene.	9	4	.....	.....	1	.....	.....	.....	.....	.....	Oversergent Fischer.
Fanöe	29.72	754.9	29.74	755.4	40.1	4.5	84	se.	.....	.....	4	.....	10	.....	.....	.....	.....	.....	Overloerer Lauridsen.
Godthaab, Greenland	30.08	763.9	30.12	765.0	21.2	— 6.0	82	se.	.....	.....	2	.....	1	.....	.....	.....	.....	.....	S. Kleinschmidt.
Stykkisholm, Iceland	30.05	763.2	30.09	764.3	27.7	— 2.4	92	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	A. O. Thorlacius.
Thorshavn	29.86	758.4	29.89	759.3	38.5	3.6	67	ne.	20.	9	.....	.....	7	.....	.....	.....	.....	.....	Overloerer Bergh.
Vestervig	29.67	753.7	29.76	756.0	41.7	5.4	55	ene.	.....	.....	4	.....	4	.....	.....	.....	.....	.....	Loerer Oesterboi.
French.																			
Agen, Normal School	28.97	735.8	29.62	752.4	52.2	11.2	90	w.	.....	.....	1	.....	10 n	.....	sw.	0	0	covered	M. Labroue, Director.
Alençon, Normal School	29.00	736.5	29.55	750.5	53.6	12	87	s.	.....	.....	4	.....	10 n	w.	sw.	0.04	1.	raining	M. Nicot, Director.
Arras, Engineer School	29.28	743.8	29.53	750.1	55.4	13.0	55	se.	.....	.....	6	.....	k	.....	nw.	0	0	.....	Capt. Bertrand, Dir.
Avignon, Normal School	29.84	758.0	29.92	760.0	64.0	17.8	49	se.	.....	.....	2	.....	10	.....	.....	0	0	covered	M. Giraud, Director.
Bar-sur-Seine	29.10	739.2	29.69	754.1	56.8	13.8	53	s.	.....	.....	1	.....	10	.....	.....	0	0	covered	M. Saillard, Director.
Beauvais, Normal School	29.26	743.1	29.51	749.6	59.9	15.5	58	sse.	.....	.....	1	.....	1c	.....	.....	0	0	covered	M. Frère Eugène Marl.
Besançon, Normal School	29.00	736.7	29.85	758.3	60.1	15.6	44	n.	.....	.....	1	.....	10	.....	sw.	0	0	covered	M. Gobin, Director.
Bordeaux, Observatory	29.31	744.5	29.57	751.0	61.3	16.3	66	sse.	.....	.....	1	.....	10	.....	sw.	.....	.....	raining	M. Rayet, Director.
Bourges, Normal School	29.06	738.2	29.61	752.0	62.6	17	47	s.	.....	.....	1	.....	.....	.....	.....	0	0	.....	M. Postel, Director.
Brest, Naval Observatory	29.20?	741.6?	29.44?	747.8?	55.4	13.0	93	ssw.	.....	.....	3	.....	10	.....	ssw.	0.354	9.0	.....	M. de Kermaree, Dir.
Caen, Normal School	29.33	745.0	29.40	746.8	54.0	12.2	81	sw.	.....	.....	1	.....	8	.....	sw.	0.047	1.2	very cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.45	747.9	29.76	755.8	54.3	12.4	61	calm	.....	.....	0	.....	5	.....	.....	0	0	cloudy	M. Jadot, Director.
Charleville, Normal School	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.34	719.7	29.65	753.2	62.4	16.9	44	sse.	.....	.....	4	.....	10	.....	.....	0	0	covered	M. Alluard, Director.
Cluny, Normal School	28.88	733.6	29.72	755.0	56.3	13.5	52	se.	.....	.....	6	.....	.....	s.	.....	0	0	.....	M. de Villemontée, Dir.
Commercy, Normal School	28.82	731.9	29.68	753.8	59.4	15.2	47	se.	.....	.....	1	.....	5 ksn	se.	se.	0	0	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.39	695.7	29.89	759.1	53.6	12	33	w.	.....	.....	3	.....	1	.....	e.	0	0	.....	M. Jeangirard, Director.
Gréasque, du. Rhone	28.82	731.9	29.93	760.3	58.5	14.7	35	se.	.....	.....	3	.....	8	.....	se.	0	0	.....	M. Kina, Director.
Grenoble, Normal School	29.06	738.0	29.81	757.1	63.5	17.5	38	sw.	.....	.....	6	.....	10n	.....	.....	.....	.....	raining	M. Ablard, Director.
Guéret, Normal School	28.09	713.4	29.63	752.7	61.7	16.5	37	s.	.....	.....	4	.....	sn	.....	e.	0.091	2.3	.....	M. Rivoire, Director.
Lamballe, Normal School	29.16	740.7	29.43	747.5	55.0	12.8	90	w.	.....	.....	4	.....	10	.....	w.	0.28	7.	raining	M. Olitrault, Director.
Lescar, Normal School	29.07	738.3	29.62	752.3	68.0	20	57	ese.	.....	.....	1	0	5 kn	.....	.....	0	0	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	29.24	742.7	29.34	745.3	55.9	13.3	98	s.	.....	.....	8	.....	10	.....	s.	0.197	5.0	covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.72	729.5	29.77	756.1	56.5	13.6	30	sse.	.....	.....	4	.....	10 cn	.....	s.	0	0	covered	M. André, Director.
Mans, Normal School	29.21	741.8	29.51	749.5	53.1	11.7	99	s.	.....	.....	3	.....	10	.....	.....	0	0	covered	M. Piboen, Director.
Marseille, Observatory	29.67	753.6	29.94	760.4	59.2	15.1	50	se.	.....	.....	3-4	.....	10	.....	w; se.	0	0	.....	M. Stephan, Director.
Montlouis l'instituteur	24.67	626.6	29.51	749.6	50.5	10.3	44	sw.	16.8	7.5	.....	.....	7	nw.	.....	.....	.....	light rain	M. Cave, for Dr. Fines.
Montpellier, Normal School	29.73	755.2	29.86	758.5	54.7	12.6	93	se.	.....	.....	4	.....	10	.....	se.	.....	.....	covered	M. Galzin, Director.
Nancy, Normal School	28.88	733.5	29.65	753.1	53.4	11.9	56	ne.	.....	.....	1	.....	10 n	.....	.....	0	0	covered	M. Husse, Director
Nantes, Observatory	29.33	744.9	29.49	749.0	56.8	13.8	91	s.	.....	.....	2-3	.....	10	.....	.....	0.087	2.2	light rain	M. Larocque, Director.
Perpignan, Observatory	29.63	752.7	29.74	755 5	66.6	19.2	55	s.	9.4	4.2	.....	.....	10	.....	wnw.	0	0	.....	Dr. Fines, Director.
Pic-du-Midi, Summit	21.01	533.6	.....	.....	29.7	— 1.3	.....	sw.	.....	.....	3-4	.....	10	.....	sw.	0.059	1.5	snowy	Gen'l de Nansouty, Dir.
Privas, Normal School	28.88	733.6	29.95	760.7	53.6	12	46	se.	.....	.....	6	.....	10	.....	n.	0	0	covered	M. Tallieu.
Puy de Dôme Obs'y, Summit	24.85	631.2	.....	.....	45.3	7.4	75	ssw.	.....	.....	6	.....	8	.....	.....	0	0	¾ covered	M. Alluard, Director.
Rochefort, Naval Obs'y	29.55	750.5	29.58	751.3	60.1	15.6	81	s.	.....	.....	1	.....	10	.....	.....	0.146	3.7	raining	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.24	742.6	29.45	748.0	55.8	13.2	93	s.	.....	.....	4	.....	10	.....	.....	0.126	3.2	covered	M. Mouillot, Director.
Rodez, Normal School	27.77	705.4	29.93	760.1	51.1	10.6	72	e.	.....	.....	4	.....	10	.....	.....	0	0	covered	M. Serger, Director.
Rouen, Normal School	29.44	747.7	29.48	748.9	56 8	13.8	71	s.	.....	.....	2	.....	1c	sw.	.....	.....	.....	raining	M. Brotier.
Saint Maur, Observatory	29.39	746.4	29.55	750.6	56.5	13.6	60	sse.	.....	.....	2	.....	10	.....	sw.	0	0	.....	M. Renou, Director.
Toulouse, Observatory	29.00	736.7	29.72	754.8	65.3	18.5	54	sse.	.....	.....	4	.....	8	.....	nw.	0	0	very cloudy	M. Bailland, Director.
Versailles, Observatory	29.05	737.8	29.54	750.3	56.1	13.4	73	sw.	.....	.....	2	.....	.....	.....	.....	0.303	7.7	.....	Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.27	743.4	29.56	750.8	58.1	14.5	58	ssw.	.....	.....	3	.....	10	.....	sw.	inap.	inap.	sprinkling	M. Marié Davy, Director
German.																			
Bamberg	28. 89	733.7	29.73	755.2	56.7	13.7	30	sw.	.....	.....	3	0	4 cks	.....	sw.	0	0	.....	Prof. Dr. Hoh.
Berlin	29.54	750.3	29.72	754.8	46.0	7.8	76	w.	.....	.....	1	.....	1c	.....	.....	0	0	.....	Prof. Dr. Arndt.
Breslau	29.31	744.5	29.84	757.9	50.7	10.4	39	sw.	.....	.....	2	.....	3	.....	.....	0	0	.....	Royal University Obs'y.
Carlsruhe	29.28	743.8	29.72	755.0	59.4	15.2	35	se.	.....	.....	1	.....	9	nw.	.....	0.094	2.4	.....	Albert Senz.
Cassel	28.94	735.1	29.65	753.2	59.2	15.1	30	s.	.....	.....	2	.....	8	s.	.....	0	0	.....	Dr. H. Möhl.
Frankfort on the Main	29.35	745.5	29.71	754.6	59.4	15.2	28	se.	.....	.....	1	.....	8	.....	.....	0	0	.....	Physical Society.
Friedrichshafen	28.37	720.5	29.80	757.0	50.0	10.0	65	ssw.	.....	.....	1	.....	8	sw.	.....	0.035	0.9	.....	Wilhelm, Chief Tel.
Hamburg	29.65	753.1	29.74	755.5	48.2	9.0	62	e.	.....	.....	2	.....	9	.....	.....	0	0	hazy	E. Preller.
Kiel	29.73	755.1	29.74	755.5	40.8	4.9	85	e.	.....	.....	1	.....	10	.....	.....	0.295	7.5	.....	Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.35	745.4	29.76	756.0	57.2	14.0	30	sw.	.....	.....	2	.....	8	.....	.....	0	0	.....	H. Leppig, Asst.
Magdeburg	29.54	750.2	29.72	754.9	57.7	14.3	30	wsw.	.....	.....	2	7 ck	0	w.	.....	0.209	5.3	.....	Dr. Assmann.
Memel	29.74	755.5	29.79	756.7	33.1	0.6	57	nnw.	.....	.....	4	0	5 k	.....	.....	.....	.....	.....	Issermann.
Munich	27.98	710.8	29.84	757.8	57.0	13.9	25	nw.	.....	.....	1	.....	6	w.	.....	0	0	.....	Central Station
Neufahrwasser	29.79	756.7	29.81	757.1	35.1	1.7	84	nne.	.....	.....	2	.....	10	.....	.....	0.067	1.7	.....	A. Lothes.
Neustadt, Palatinate	29.18	741.2	29.70	754.4	57.2	14.0	41	s.	.....	.....	1	.....	10	.....	.....	0	0	.....	Dicknether.
Stuttgart	28.76	730.5	29.63	752.6	61.7	16.5	33	sw.	.....	.....	1	.....	1	w.	.....	0.031	0.8	.....	Prof. Dr. Schoder.
Wustrow	29.78	756.4	29.81	757.1	39.0	3.9	82	se.	.....	.....	2	.....	10	.....	.....	0.094	2.4	.....	Profs. Brandes & Reimer.
Greek.																			
Athens	29.34	745.2	29.74	755.3	53.8	12.1	.....	w.	.....	.....	2.0	8	0	.....	.....	0.087	2.2	light rain	Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.79	756.8	29.84	758.0	87.8	31.0	52	wsw.	23.0	10.3	.....	.....	4	.....	.....	0	0	misty	
Deesa	29.27	743.5	29.72	755.0	100.9	38.3	12	nnw.	7.9	3.5	.....	.....	0	.....	.....	0	0	blue sky	
Bombay	29.73	755.2	29.77	756.1	83.9	28.8	73	nw.	14.0	6.3	.....	.....	0	.....	.....	0	0	blue sky	
Poona, Yarrowda	27.89	708.3	29.68	753.9	94.4	34.7	9	wnw.	20.0	8.9	.....	.....	0	.....	.....	0	0	blue sky	
Belgaum	27.19	690.6	29.64	752.7	93.2	34.0	16	nw.	9.0	4.0	.....	.....	2	n.	.....	0	0	d. clouds	
Lahore	29.09	738.9	29.82	757.5	88.1	31.2	21	nw.	3.1	1.4	.....	.....	8	.....	.....	0	0	misty	
Roorkee	28.88	733.4	29.75	755.7	90.0	32.2	13	nw.	2.7	1.2	.....	.....	0	.....	.....	0	0	blue sky	
Agra	29.22	742.0	29.76	755.9	97.1	36.2	10	w.	1.9	0.8	.....	.....	0	.....	.....	0	0	.....	
Nagpur	28.69	728.8	29.71	754.6	91.9	33.3	35	se.	6.9	3.1	.....	.....	0	.....	.....	0.07	1.8	blue sky	
Jubbulpore	28.46	722.9	29.82	757.4	77.5	25.3	42	ene.	4.8	2.2	.....	.....	8	.....	ne.	0.08	2.0	overcast	
Lucknow	29.38	746.1	29.74	755.4	98.0	36.7	16	nw.	4.8	2.2	.....	.....	6	ene.	.....	0	0	d. clouds	
Allahabad	29.42	747.3	29.72	755.0	95.7	35.4	17	sw.	2.1	0.9	.....	.....	6	.....	.....	0	0	d. clouds	
Patna	29.59	751.5	29.77	756.1	93.3	34.1	18	w.	4.8	2.2	.....	.....	5	w.	w.	0	0	d. clouds	
Hazaribagh	27.80	706.0	29.77	756.0	87.8	31.0	17	e.	6.0	2.7	.....	.....	10	.....	.....	0	0	overcast	
Cuttack	29.66	753.4	29.74	755.4	96.5	35.8	30	wnw.	1.0	0.4	.....	.....	7	.....	.....	0	0	d. clouds	
Calcutta, Alipore	29.74	755.3	29.76	755.8	89.5	31.9	33	nnw.	5.0	2.2	.....	.....	2	.....	.....	0	0	d. clouds	
Dhubri	29.64	752.9	29.76	755.9	84.2	29.0	60	calm	2.6	1.2	.....	.....	5	ssw.	.....	0	0	d. clouds	
Chittagong	29.68	753.9	29.77	756.2	85.7	29.8	69	w.	0.9	0.4	.....	.....	0	.....	.....	0	0	blue sky	
Sibsagar	29.49	749.0	29.82	757.5	78.9	26.1	68	ne.	5.1	2.3	.....	.....	0	.....	.....	0	0	blue sky	
Jeypore	28.35	720.1	29.76	755.8	94.2	34.6	13	n.	0.7	3.0	.....	.....	2	.....	n.	0	0	d. clouds	
Zanzibar, Africa	29.80	756.9	.....	.....	87.7	30.9	53	sse.	4.7	2.1	.....	.....	7	.....	.....	0	0	d. clouds	
Bellary	28.23	717.0	.....	.....	96.2	35.7	26	se.	4.6	2.1	.....	3 ck	5	sw.	.....	0	0	gloomy	
Trichinopoly	29.50	749.3	.....	.....	81.3	27.4	70	ne.	1	0.4	.....	.....	10	.....	.....	0	0	overcast	
Italian.																			
Udine	29.61	752.1	30.02	762.5	55.9	13.3	57	sw.	2.5	1.1	.....	.....	1	.....	.....	0	0	.....	Prof. Giovanni Clodig.
Milan	29.48	748.9	29.96	761.0	59.0	15.0	18	nw.	3.8	1.7	.....	.....	3	.....	.....	0.008	0.2	.....	Prof. Schiaparelli.
Padua	29.89	759.3	30.00	762.1	56.7	13.7	27	se.	4.3	1.9	.....	.....	8	.....	.....	0	0	.....	Prof. Dott. Lorenzoni.
Moncalieri	29.08	738.5	29.97	761.3	57.2	14.0	38	e.	4.9	2.2	.....	.....	2	.....	.....	0	0	.....	Prof. P. F. Denza.
Genoa	29.85	758.2	30.04	763.0	58.5	14.7	41	s.	9.4	4.2	.....	.....	4	sw.	.....	0	0	.....	Prof. G. M. Garibaldi.
Mondovi	28.04	712.3	29.96	760.9	53.2	11.8	35	w.	.....	.....	2	.....	0	.....	.....	0	0	.....	Prof. D. C. Bruno.

* Total for last 2 days.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
ITALIAN.—Continued.																			
Pesaro	29.97	761.3	30.02	762.5	56.3	13.5	48	w.	12.5	5.6			1			0	0		Prof. Luigi Guidi.
Florence	29.78	756.3	30.03	762.7	59.0	15.0	17	sw.			2		1	nw.		0	0		Prof. Costantino Pitter.
Leghorn	29.91	759.7	30.00	761.9	59.7	15.4	42	s.	0.7	0.3			5			0	0		Prof. P. Monte.
Rome	29.85	758.3	30.03	762.7	60.3	15.7	15	nnw.	3.1	1.4			0			0	0		Prof. P. S. Ferrari.
Lecce	29.67	753.5	29.92	759.9	54.5	12.5	40	nne.	28.0	12.5			4	n.		0.020	0.5		Prof. C. de Giorgi.
Cosenza	29.08	738.6	29.97	761.1	52.2	11.2	68	nnw.	3.8	1.7			3	nw.		0	0		Prof. D. Conti.
Cagliari	29.81	757.1	30.00	762.0	61.3	16.3	57	se.			4		1			0	0		Prof. A. Paolnotti.
Palermo	29.83	757.6	30.08	763.9	58.1	14.5	37	nne.	11.2	5.0			1			0.079	2.0		Prof. G. Ciaccolatore.
Syracuse	29.92	760.0	29.97	761.1	60.1	15.6	49	w.	11.9	5.3			3	w.		0	0		Prof. Vincenzo Guiliano.
Sub-series.																			
Naples, S. R	29.54	750.3	30.06	763.6	57.2	14.0	39	nw.	1.8	0.8			1	nne.		0	0		Prof. T. Brioschi.
Stelvio	22.00	558.8			27.1	— 2.7	48	sw.			6		4			0	0	misty	Prof. P. F. Denza.
Valdobbia	22.10	561.2			31.8	— 0.1	61	e.			2		5			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Aomori	29.61	752.1	29.65	753.1	54.2	12.3	75	ssw.	26.5	11.8			10 ks;s			0.090	2.3	overcast	K. Ogawa.
Hakodate	29.60	751.8	29.61	752.1	49.8	9.9	90	sw.	33.6	15.0			10			0.560	14.2	covered	
Hiroshima, I. M. Obs'y	29.87	758.7	29.88	758.9	53.0	11.7	81	ne.	4.4	2.0		ck	10 s			0	0	covered	K. Sasaki.
Kanazawa	29.79	750.0	29.89	759.2	48.9	9.4	93	wsw.	6.9	3.1			10 n			0.490	12.5	raining	S. Endo.
Kioto	29.67	753.6	29.85	758.2	54.1	12.3	80	nw.	3.9	1.7			10 s			0.170	4.3	cloudy	M. Tojima.
Kochi	29.78	756.4	29.80	756.9	62.5	16.9	70	e.	7.0	3.1			10 s;n			0.010	0.2		
Nagasaki, I. M. Obs'y	29.70	754.4	29.91	759.4	54.6	12.6	89	n.	6.0	2.7		0	9 s			0.020	0.5	overcast	S. Takehayashi.
Niigata	29.80	756.9	29.83	757.7	50.3	10.2	96	w.	12.3	5.5			10 n			0.660	16.8		
Nobiru	29.70	754.4	29.71	754.6	52.7	11.5	99	s.	4.9	2.2			10 s			0.395	10.0	covered	H. Midzushima.
Supporo					41.5	5.3	96	calm	0	0			10			0.215	5.5	covered	
Tokei Obs'y, Yeddo	29.63	752.6	29.70	754.4	63.7	17.6	95	s.	8.2	3.7			10 ks			0.270	6.9	cloudy	The Staff.
Wakayama	29.78	756.4	29.84	757.9	55.9	13.3	92	nw.	2.5	1.1			10 n			0.071	1.8	raining	Y. Kuwamura.
MAURITIUS.																			
Mauritius Observatory	29.73	755.1	29.92	760.0	79.5	26.4	65	se.	11.0	4.9		0	2 k			0.19	4.8	clear	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.62	599.9	29.84	757.9	58.1	14.5	73	wsw.				0	kp	w.		0	0	gloomy	Vicente Fernandez.
Leon	24.32	617.7	30.01	762.2	56.3	13.5	75	nw.			1	5 ck	0	w.		0	0	foggy	Prof. M. Leal.
Mazatlan	29.64	752.8	29.90	759.4	64.5	18.1	70	n.	1.6	0.8		7 cs	0	sw.		0	0	foggy	F. Quijano, C. E.
Mexico, Central Obs'y	23.00	584.2	30.04	763.1	54.1	12.3	54	calm	0	0		2 ck	0			0	0	flue	The Staff.
Morelia	23.97	608.7	30.02	762.6	59.5	15.3	77	se.			1	1	0	e.		0	0	clear	M. Tena, M. D.
Pabellon, Aguascalientes	23.85	605.8	29.86	758.4	59.0	15.0	56	wsw.			2	0	9 k		sw.	0	0		M. V. de Leon, M. E.
Puebla, Catholic Institute	23.37	593.7	30.13	765.4	52.7	11.5	79	ne.	0.9	0.4		0	2		ne.	0	0		Prof. P. Spina.
San Luis Potosi	24.18	614.3	30.07	763.6	62.6	17.0	61	w.			1	8	0	w.		0	0	cloudy	G. Barroeta, M. D.
Zacatecas	22.64	570.5	30.11	764.7	49.0	9.5	47	w.	10.4	4.6		9 ck	0	n.		0	0		J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.54	750.2	29.54	750.2	55.9	13.3		se.			3					0	0		
Groningen	29.57	751.1	29.63	752.5	50.2	10.1		s.			3					0	0		
Helder	29.58	751.2	29.58	751.2	50.7	10.4		se.			1					0.295	7.5		
Hellevoetsluis	29.57	751.0	29.57	751.0	55.2	12.9	67	sse.			2					0	0		
Utrecht	29.55	750.5	29.60	751.7	58.1	14.5	47	sse.			3		5			0.228	5.8	cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.75	755.6	29.81	757.2	37.0	2.8	50	nw.	2	1			5			0	0		
Brono	29.63	752.5	29.67	753.5	30.9	— 0.6	73	nw.	9	4			10			0.126	3.2		
Christiania	29.67	753.5	29.82	757.4	34.5	1.4	59	s.	2	1			0			0	0		
Gjæsvær	29.40	748.3	29.48	748.9	23.5	— 4.7		nw.			2		10						
Lodingen	29.48	748.9	29.53	750.1	30.9	— 0.6	65	ne.			2		9						
PORTUGUESE.																			
Angra, Azores					59.7	15.4	62	wnw.	11.2	5.0			3			0	0		Dr. J. A. Sampaio.
Campo Major	28.99	736.4	29.98	761.5	64.0	17.8	53	ssw.	7.4	3.3			8			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	29.89	759.2	29.98	761.4	66.6	19.2	81	sw.					7			0.020	0.5		Capt. D. A. de Cunha.
Lisbon, Observatory	29.56	750.7	29.92	759.9	56.8	13.8	91	wsw.	13.6	6.1			10			0.165	4.2	raining	The Staff.
Ponta Delgada, Azores	29.91	759.6	29.98	761.4	64.4	18.0	62	wnw.	11.9	5.3			4	n.		0	0		
Saint Paul de Loando	29.09	754.1	29.89	759.2	80.6	27.0	84	w.	1.3	0.6			7	e.		0	0		
Serra da Estrella	25.05	636.3	29.85	758.1	38.5	3.6	100	w.	33.5	15.0			10			1.752	44.5	rain & fog	
RUSSIAN.																			
Akmolinski	28.46	722.9	29.56	750.8	34.3	1.3	85	ese.	11	5			10 n			0	0		Major K. Lasarew.
Archangel	29.37	746.1	29.39	746.6	29.5	— 1.4	76	wnw.	4	2			9 ks			0	0		Capt. Sselliwerstow.
Astrakhan	29.89	759.1	29.80	757.0	44.6	7.0	52	nw.	7	3		0	8 ks			0	0		Capt. Wisganow.
Barnaul	29.50	749.4	30.02	762.5	37.0	2.8	70	calm	0	0			3			0	0	light clouds.	Meteorological Obs'y.
Dorpat	29.33	745.0	29.58	751.4	30.2	— 1.0	94	wsw.	9	4			10 n			0.035	0.9	light snow	Observatory.
Ekaterinburg	28.58	725.9	29.55	750.6	37.2	2.9	50	w.	9	4			9			0	0		Meteorological Obs'y.
Kasan	29.48	748.7	29.76	755.8	31.8	— 0.1	44	ssw.	4	2			0			0.012	0.3		Observatory.
Kertch	29.82	757.4	29.84	757.9	44.1	6.7	61	nne.	9	4		0	s s			0	0		Lagorio & Sastyrez.
Kieff	29.13	740.0	29.76	756.0	52.9	11.6	35	ssw.	9	4		c;cs	6 k;ks			0	0		Observatory.
Lugan	29.63	752.5	29.83	757.7	50.0	10.0	28	nnw.	9	4			9			0	0		Meteorological Obs'y
Moscow	29.10	739.0	29.57	751.0	49.8	9.9	34	s.	13	6		0	7 ks			0	0		Meteorological Obs'y.
Nikolaiev	29.87	758.6	29.94	760.4	52.9	11.6	37	ene.	4	2		0	0			0.110	2.8		Capt. Kurdakow.
Nikolaievsk, on the Amoor	30.03	762.8	30.12	765.0	30.6	— 0.8	64	calm	0	0			0			0	0		Lieut. Iwanow.
Pekin, China	30.01	762.3	30.15	765.9	62.1	16.7	31	calm	0	0		0	0			0	0		Physical Observatory
St. Petersburg	29.35	745.6	29.37	746.0	34.0	1.1	79	sw.	11	5			10ks;n			0	0		Central Physical Obs'y
Ssemipalatinsk	29.22	742.3	29.89	759.3	41.2	5.1	54	e.	9	4			9			0.043	1.1	light snow	
Tashkend, Laboratory	28.11	713.9	29.65	753.0	59.2	15.1	72	ne.	18	8			10			0	0		Major Lasaren.
Tiflis	28.29	718.5	29.69	754.1	55.6	13.1	29	nw.	22	10		3 cs	0			blank	blank		Teich, A. M.
Vladivostok	29.86	758.5	29.93	760.2	44.2	6.8	52	nw.	4	2		0	5 k			0	0		Physical Observatory
Warsaw	29.34	745.2	29.70	755.9	51.3	10.7	33	nnw.	20	9		cs	10 k						
Wilna	29.20	741.7	29.63	752.5	40.3	4.6	86	sw.	4	2			10			0.039	1.0	heavy cl'ds.	Astronomical Obs'y
Yeniseisk	29.64	752.9	29.94	760.4	36.5	2.5	68	w.	9	4			8			0	0		Berg, Assistant.
SPANISH.																			M. O. Marks.
Barcelona, Met. Obs'y	29.73	755.1	29.84	757.8	64.8	18.2	71	s.	4.0	1.8			7			0	0	hazy	
Bilbao, Met. Obs'y	29.59	751.6	29.65	753.1	70.5	21.4	44	w.	5.8	2.6		2	7	sw.		0.224	5.7	almost cov'd	Antonio Rave, Director.
Burgos, Met. Obs'y	26.81	680.9	29.72	754.8	57.2	14.0	57	s.	16.1	7.2			10			0.039	1.0	covered	Prof. Manuel de Naveran.
Madrid, Royal Obs'y	27.63	701.7	29.80	756.8	68.4	20.2	45	sw.	22.4	10.0		0	7			0	0	cloudy	Domingo Martin.
Murcia, Met. Obs'y	29.74	755.4	29.89	759.1	77.9	25.5	49	e.	3.8	1.7		2	4	ne.		0	0	cloudy	The Staff.
Santiago, Met. Obs'y	28.74	730.0	29.63	752.6	57.0	13.9	74	sw.	17.4	7.8			9			2.146	54.5	almost cov'd	Olayo Diaz, Director.
Sub-series.																			R. Gil Vallanueva, Dir.
Havana, Cuba, W. I	29.78	756.3	29.84	758.0	77.3	25.2	83	sse.	3.1	1.4		6 c;cs	2 k	wnw.	s.	inap.	inap.	fair	Benito Vines, S. J.
Manilla, Philippine Islands	29.84	757.8	29.89	759.2	83.3	28.5	72	e.	4.4	2.0		0	1 ks			0	0	clear	F. Faura, S. J.
San Fernando, Naval Obs'y	29.93	760.3	30.03	762.8	64.8	18.2	63	w.	6.1	2.7		0	8		w.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	29.92	759.9	30.01	762.2	76.3	24.6	81	se.	4.5	2.0		0	2 k		se.	0	0	clear	Manuel Mueu.
Tuguegarao, Philippine Id's	29.77	756.1	29.91	759.7	81.1	27.3	71	nnw.	4.5	2.0		0	3 ks		nw.	0	0	fair	José L. Yrastorza.
SWEDISH																			
Haparanda	29.55	750.6	29.59	751.6	29.8	— 1.2	61	nw.			2		8			0	0		
Umea	29.57	751.0	29.62	752.3	36.0	2.2	58	nw.			2		9			0	0		
Hernosand	29.61	752.1	29.66	753.4	38.3	3.5	44	nnw.			2		8			0.031	0.8		
Stockholm	29.56	750.8	29.74	755.3	34.7	1.5	45	n.			2		6			0	0		
Wisby	29.72	754.9	29.78	756.4	33.8	1.0	79	n.			4		7			0	0		
Sub-series.																			
Upsala	29.63	752.6	29.72	754.8	34.9	1.6	46	nnw.	8.9	4.0			2		n.	0	0		S. G. Fineman.
SWISS.																			
Geneva	28.38	720.9	29.80	756.9	57.2	14.0	36	sw.			2					0.024	0.6	covered	The Observatory

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
TURKISH.																			
Constantinople	.....	.....	29.76	755.9	50.0	10.0	59	nne.	17	7.5	.....	.....	2	.....	ne	0	0	.....	The Observatory.
Valona	.....	.....	29.91	759.7	52.2	11.2	.....	nw.	.....	.....	1	.....	5	.....	.....	0.59	15.	rainy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	29.85	758.1	65.1	18.4	68	sw.	.....	.....	2	0	7 n	.....	sw.	0.22	5.6	.....	Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	29.73	755.1	29.81	757.2	43.2	6.2	68	w.	12	5.4	.....	.....	10 s	.....	nw.	inap.	inap.	cloudy	J. O. Barnes.
Alpena, Michigan	29.36	745.7	30.05	763 3	33	0.6	78	nw.	9	4.0	.....	8 k	2 s	nw.	.....	inap.	inap.	cloudy	Jas. J. Fitzgerald.
Atlanta, Georgia	28.74	730.0	29.93	760.2	43.5	6.4	87	e.	7	3.1	.....	.....	10 s	.....	calm	0.07	1.8	cloudy	H. Hall.
Atlantic City, New Jersey	29.97	761.2	29.98	761.5	37.7	3.2	64	w.	7	3.1	.....	6 c	0	sw.	.....	0	0	fair	Jas. M. Watson.
Augusta, Georgia	29.79	756.7	29.98	761.5	47	8.3	86	ne.	7	3.1	.....	.....	10 s	.....	n.	0.22	5.6	cloudy	John Healy.
Baltimore, Maryland	29.98	761.5	30.03	762.7	38	3.3	73	nw.	3	1.3	.....	2 c	hz.	w.	.....	0	0	clear	Robert Seyboth.
Barnegat, New Jersey	29.94	760.5	29.96	761.0	40.0	4.4	59	w.	12	5.4	.....	3 cs	0	w.	.....	0	0	clear	Chas. F. Merritt.
Bismarck, Dakota	28.58	725.9	30.45	773.4	32	0.0	81	ne.	12	5.4	.....	.....	10 s	.....	.....	0	0	cloudy	Cyrus Cramer.
Boise City, Idaho	27.29	693.2	30.13	765.3	42	5.6	76	e.	1	0.4	.....	0	0	.....	.....	0	0	clear	B. E. Light.
Boston, Massachusetts	29.58	751.3	29.74	755.4	39.0	3.9	54	w.	16	7.2	.....	0	0	.....	.....	inap.	inap.	clear	O. B. Cole.
Brownsville, Texas	29.68	753.9	29.73	755.1	73	22.8	97	ne.	4	1.8	.....	.....	10 s	.....	ne.	0	0	cloudy	J. C. Galloway.
Buffalo, New York	29.18	741.2	29.95	760.7	35	1.7	79	sw.	16	7.2	.....	.....	10 s	.....	w.	0.01	0.3	cloudy	Wm. Finn.
Burlington, Vermont	29.37	746.0	29.67	753.6	37.0	2.8	72	w	5	2.2	.....	2 ck	5 s	w.	w.	0.01	0.3	fair	G. C. Schaeffer.
Cairo, Illinois	29.69	754.1	30.10	764.5	40.8	4.9	75	n.	6	2.7	.....	3 ck	2 s	sw.	.....	inap.	inap.	fair	W. H. Ray.
Campo, California	27.37	695.2	29.95	760.7	34	1.1	88	se.	2	0.9	.....	0	0	.....	.....	0	0	clear	W. H. Clendenon.
Camp Thomas, Arizona	27.07	687.6	29.80	756.9	46.5	8.1	88	nw.	.....	.....	1	.....	10 ks	.....	w.	0.02	0.5	cloudy	J. T. Fitzgerald.
Cape Henry, Virginia	29.98	761.5	30.00	762.0	45	7.2	68	n.	7	3.1	.....	0	0	.....	.....	0	0	clear	J. E. Lanouette.
Cape May, New Jersey	29.98	761.5	30.01	762.2	40	4.4	73	nw.	12	5.4	.....	3 cs	2 ks	.....	nw.	0	0	fair	W. Bolten.
Cedar Keys, Florida	29.86	758.4	29.88	758.9	67	19.4	90	ne.	5	2.2	.....	.....	10 n	.....	sw.	0.20	5.1	heavy rain	F. W. Mixer.
Champaign, Illinois	29.28	743.7	30.12	765.0	33.3	0.7	78	ne.	19	8.5	.....	.....	10 s	.....	n.	0	0	cloudy	L. A. Welsh.
Charleston, S. Carolina	29.86	758.4	29.92	760.0	48	8.9	86	n.	12	5.4	.....	.....	10 s	.....	n.	0.16	4.1	threatening	J. H. Smith.
Charlotte, N. Carolina	29.10	739.1	29.96	761.0	41.0	5.0	82	ne.	5	2.2	.....	.....	10 s	.....	ne.	0	0	cloudy	D. O. Donoghue.
Chattanooga, Tennessee	29.13	739.9	29.96	761.0	50.0	10.0	58	ne.	6	2.7	.....	4 ck	6 s	s.	s.	inap.	inap.	cloudy	B. L. Goulding.
Cheyenne, Wyoming	24.16	613.7	30.16	766.1	17.2	— 8.2	73	n.	2	0.9	.....	.....	10 s	.....	.....	0.04	1.0	cloudy	E. McGovern.
Chicago, Illinois	29.42	747.3	30.15	765.8	37.8	3.2	76	n.	4	1.8	.....	10 k	0	n.	.....	0	0	cloudy	J. Mitchell.
Chincoteague, Virginia	29.97	761.2	29.99	761.7	40	4.4	82	n.	14	6.3	.....	1 c	0	.....	.....	0	0	clear	V. P. Temple.
Cincinnati, Ohio	29.42	747.3	30.09	764.3	38	3.3	72	n.	5	2.2	.....	2 c	0	nw.	.....	0	0	clear	R. B. Watkins.
Cleveland, Ohio	29.32	744.7	30.08	764.0	35.8	2.1	71	w.	8	3.6	.....	.....	10 s	.....	nw.	0	0	cloudy	J. B. Newlin.
Coleman City, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.02	0.5	.....	L. Dorman.
Columbus, Ohio	29.20	741.7	30.08	764.0	36	2.2	69	n.	4	1.8	.....	0	0	.....	.....	0	0	clear	D. Cuthbertson.
Concho, Texas	28.11	714.0	30.05	763.3	40	4.4	82	w.	24	10.7	.....	.....	10 s	.....	w.	0	0	cloudy	W. W. McConihe.
Davenport, Iowa	29.48	748.8	30.15	765.8	44	6.7	68	ne.	4	1.8	.....	10 k	hz.	ne.	calm	0	0	cloudy	R. R. Martin.
Dayton, Washington T'y	28.47	723.1	30.22	767.6	34.8	1.6	86	ne.	5	2.2	.....	0	0	.....	.....	0	0	clear	H. Clifford.
Deadwood, Dakota	25.60	650.2	30.29	769.4	24	— 4.4	88	calm	0	0	.....	.....	10 s	.....	.....	0.04	1.0	cloudy	G. W. Scott.
Decatur, Texas	.....	.....	.....	.....	40	4.4	73	n.	17	7.6	.....	.....	10 s	.....	.....	0.54	13.7	cloudy	D. J. Carr.
Delaware Breakwater, Del.	30.00	762.0	30.02	762.5	39	3.9	73	nw.	11	4.9	.....	5 cs	0	w.	.....	0	0	fair	A. Schneider.
Denison, Texas	29.26	743.2	30.06	763.5	42.0	5.6	82	n.	8	3.6	.....	.....	10 s	.....	.....	0.27	6.9	cloudy	J. McGlone.
Denver, Colorado	24.91	632.7	30.18	766.6	24.0	— 4.4	82	n.	2	0.9	.....	.....	10 n	.....	calm	0.30	7.6	light snow	F. M. Neal.
Des Moines, Iowa	29.26	743.2	30.20	767.1	39	3.9	73	n.	5	2.2	.....	5 cs	4 s	w.	n.	0	0	cloudy	F. W. Conrad.
Detroit, Michigan	29.36	745.7	30.09	764.3	38.7	3.7	73	w.	7	3.1	.....	.....	10 s	.....	w.	0	0	cloudy	C. F. R. Wappenhans.
Dodge City, Kansas	27.60	701.0	30.24	768.1	26	— 3.3	76	n.	16	7.2	.....	0	4 s	.....	n.	inap.	inap.	fair	E. A. Thomas.
Dubuque, Iowa	29.42	747.3	30.16	766.1	37.3	2.9	61	n.	4	1.8	.....	9 ck	0	ne.	.....	0	0	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.54	750.3	30.26	768.6	32	0.0	78	nw.	16	7.2	.....	0	4 k	.....	nw.	0	0	fair	N. B. Conger.
Eagle Pass, Texas	29.19	741.4	30.00	762.0	58.3	14.6	65	ne.	14	6.3	.....	.....	10 s	.....	.....	0	0	cloudy	F. Belford.
Eagle Rock, Idaho	25.40	645.1	30.12	765.0	29	— 1.7	80	ne.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. M. Clifford.
Eastport, Maine	29.43	747.5	29.50	749.3	36	2.2	61	sw.	13	5.8	.....	0	0	.....	.....	0.09	2.3	clear	J. H. Melton.
El Paso, Texas	26.14	663.9	29.88	758.9	46	7.8	56	se.	5	2.2	.....	0	8 ks	.....	se.	0	0	cloudy	J. F. Marshall.
Erie, Pennsylvania	29.28	743.7	30.03	762.7	36	2.2	79	nw.	11	4.9	.....	.....	10 k	.....	nw.	inap.	inap.	cloudy	R. H. Paxton.
Escanaba, Michigan	29.47	748.5	30.16	766.1	34	1.1	78	n.	10	4.5	.....	.....	10 s	.....	n.	0	0	cloudy	C. Dill.
Florence, Arizona	28.37	720.6	29.87	758.7	43.8	6.6	87	sw.	2	0.9	.....	0	0	.....	.....	inap.	inap.	clear	R. R. Herman.
Fort Apache, Arizona	24.88	631.9	29.80	756.9	36	2.2	100	ne.	3	1.3	.....	.....	10 n	.....	calm	0.03	0.8	light rain	W. C. Barnes.
Fort Assinnaboine, Montana	27.43	696.7	30.33	770.4	27	— 2.8	67	ne.	3	1.3	.....	1 c	0	ne.	.....	0	0	clear	B. O. Lenoir.
Fort Bennett, Dakota	28.76	730.5	30.40	772.1	33	0.6	71	n.	8	3.6	.....	.....	10 s	.....	.....	0.02	0.5	cloudy	T. Gibson.
Fort Benton, Montana	27.43	696.7	30.29	769.4	31	— 0.6	71	e.	24	10.7	.....	6 ck	0	calm	.....	0	0	fair	S. Wheaton.
Fort Buford, Dakota	28.47	723.1	30.54	775.7	31	— 0.6	81	ne.	8	3.6	.....	.....	10 s	.....	calm	0	0	cloudy	A. H. Bell.
Fort Custer, Montana	27.12	688.8	30.30	769.6	28	— 2.2	88	se.	6	2.7	.....	0	4 s	.....	calm	inap.	inap.	fair	V. Verge.
Fort Davis, Texas	25.06	636.5	29.85	758.2	36	2.2	92	n.	12	5.4	.....	.....	10 s	.....	n.	0	0	cloudy	J. Williams.
Fort Elliott, Texas	27.34	694.4	30.12	765.0	31	— 0.6	40	ne.	24	10.7	.....	.....	10 s	.....	ne.	0.01	0.3	cloudy	W. J. Cundall.
Fort Gibson, Indian T'y	29.54	750 3	30.12	765.0	41.5	5.3	73	n.	6	2.7	.....	.....	10 s	.....	n.	inap.	inap.	cloudy	J. B. Campbell.
Fort Grant, Arizona	25.07	636.8	29.80	756.9	37	2.8	46	sw.	4	1.8	.....	0	5 s	.....	.....	0.05	1.3	fair	T. J. Mackowan.
Fort Griffin, Texas	28.83	732.3	30.13	765.3	40	4.4	65	ne.	17	7.6	.....	.....	10 s	.....	ne.	0.06	1.5	cloudy	G. H. Hayne.
Fort Keogh, Montana	27.84	707.1	30.38	771.6	33	0.6	81	ne.	3	1.3	.....	.....	10 s	.....	.....	0	0	cloudy	W. B. Stockman.
Fort Macon, North Carolina	29.94	760.5	29.95	760.7	46	7.8	83	n.	20	8.9	.....	.....	10 ks	.....	ne.	1.06	26.9	cloudy	L. Leonardy.
Fort McKavett, Texas	27.80	706.1	30.06	763.5	39	3.9	73	ne.	14	6.3	.....	.....	10 s	.....	.....	0	0	cloudy	J. E. Thatcher.
Fort Missoula, Montana	26.92	683.8	30.23	767.8	29	— 1.7	88	sw.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. H. Jones.
Fort St. Michaels, Alaska	30.04	763.0	30.07	763.8	23	— 5.0	86	sw.	2	0.9	.....	0	0	.....	.....	0	0	clear	A. P. Leavitt.
Fort Shaw, Montana	26.56	674.6	30.23	767.8	26	— 3.3	88	w.	4	1.8	.....	.....	10 s	.....	.....	0.05	1.3	cloudy	A. L. Mathews.
Fort Sill, Indian Territory	28.92	734.6	30.16	766.1	37.5	3.1	80	n.	23	10.3	.....	5 cs	0	.....	.....	0.01	0.3	fair	T. Cleary.
Fort Stevenson, Dakota	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. Burrows.
Fort Verde, Arizona	.....	.....	.....	.....	37.2	2.9	64	w.	.....	.....	1	0	4 s	.....	sw.	0	0	fair	D. Brooks.
Fort Washakie, Wyoming	24.61	625.1	.....	.....	21.6	— 5.8	75	ne.	3	1.3	.....	.....	10 s	.....	.....	0.20	5.1	cloudy	T. M. Ambler.
Fredericksburg, Texas	28.21	716.5	29.93	760.2	49	9.4	93	ne.	8	3.6	.....	.....	10 ks	.....	ne.	0	0	cloudy	H. S. Miles.
Galveston, Texas	29.80	756.9	29.84	757.9	59	15.0	88	n.	18	8.0	.....	.....	10 ks	.....	n.	0.07	1.8	threatening	E. O'C. MacInerney.
Grand Haven, Michigan	29.44	747.8	30.13	765.3	36.5	2.5	75	nw.	12	5.4	.....	10 k	0	nw.	.....	0	0	cloudy	W. A. Reid.
Hatteras, North Carolina	29.92	760.0	29.94	760.5	47	8.3	63	ne.	28	12.5	.....	.....	10 k	.....	ne.	0.69	17.5	cloudy	R. M. Crawford.
Helena, Montana	25.94	658.9	30.20	767.1	34	1.1	65	w.	3	1.3	.....	.....	10 s	.....	.....	0.09	2.3	cloudy	N. C. Smith.
Henrietta, Texas	29.19	741.4	30.22	767.6	34.0	1.1	100	n.	18	8.0	.....	.....	10 n	.....	.....	0.16	4.1	heavy sleet	J. W. Byram.
Huron, Dakota	28.88	733.5	30.33	770.4	33	0.6	81	n.	10	4.5	.....	.....	10 s	.....	.....	0	0	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.26	743.2	30.08	764.0	34	1.1	72	ne.	5	2.2	.....	0	hz.	.....	calm	0	0	clear	O. Schutze
Indianola, Texas	29.84	757.9	29.87	758.7	61.5	16.4	84	ne.	22	9.8	.....	10 k	0	n.	.....	0.10	2.5	cloudy	L. A. Reed.
Jacksboro, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. P. Sherry.
Jacksonville, Florida	29.85	758.2	29.89	759.2	63	17.2	84	ne.	10	4.5	.....	.....	10 s	.....	.....	1.77	45.0	cloudy	J. W. Smith.
Keokuk, Iowa	29.47	748.5	30.14	765.5	38.0	3.3	72	ne.	1	0.4	.....	10 k	0	ne.	.....	0	0	cloudy	F. Z. Gosewisch
Key West, Florida	29.85	758.2	29.87	758.7	78.0	25.6	82	sw.	8	3.6	.....	.....	10 s	.....	w.	0	0	cloudy	L. M. Melbourne.
Kittyhawk, North Carolina	29.97	761.2	29.99	761.7	45	7.2	68	ne.	23	10.3	.....	0	6 k	.....	w.	0.21	5.3	fair	E. A. Beals.
Knoxville, Tennessee	28.93	734.8	29.97	761.2	45	7.2	52	n.	7	3.1	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.42	747.3	30.22	767.6	33	0.6	60	n.	12	5.4	.....	0	0	.....	.....	0	0	clear	S. C. Emery.
La Mesilla, New Mexico	25.93	658.6	29.81	757.2	45.3	7.4	59	se.	5	2.2	.....	.....	0	9 s	.....	0	0	cloudy	N. D. Lane.
Leavenworth, Kansas	29.28	743.7	30.19	766.8	39	3.9	73	n.	6	2.7	.....	8 k	0	w.	.....	0.01	0.3	cloudy	A. W. Browne.
Lewiston, Idaho	29.44	747.8	30.29	769.4	36.2	2.3	58	se.	1	0.4	.....	0	1 s	.....	.....	0	0	clear	W. Blake.
Little Rock, Arkansas	29.71	754.6	30.03	762.7	45	7.2	93	ne.	8	3.6	.....	0	8 s	.....	n.	0.25	6.3	cloudy	W. U. Simmons.
Los Angeles, California	29.66	753.4	30.06	763.5	46.4	8.0	83	nw.	4	1.8	.....	0	c	.....	.....	0	0	clear	E. F. Kubel.
Louisville, Kentucky	29.47	748.5	30.04	763.0	37	2.8	72	n.	6	2.7	.....	6 k;c	0	.....	.....	0	0	fair	H. C. Smyth.
Lynchburg, Virginia	29.31	744.5	30.02	762.5	41.0	5.0	67	calm	0	0	.....	0	0	.....	.....	0	0	clear	W. R. Bushby.
Madison, Wisconsin	29.13	739.9	30.17	766.3	34	1.1	78	ne.	4	1.8	.....	0	9 s	.....	n.	0	0	cloudy	C. A. Shaw.
Marquette, Michigan	29.42	747.3	30.17	766.3	33	0.6	78	n.	10	4.5	.....	.....	10 s	.....	nw.	inap.	inap.	cloudy	J. Gilligan.
Mason, Texas	28.35	720.1	30.00	762.0	45.2	7.3	86	n.	13	5.8	.....	.....	10 s	.....	n.	inap.	inap.	cloudy	P. M. Wilson.
Memphis, Tennessee	29.68	753.9	30.02	762.5	41	5.0	100	n.	6	2.7	.....	.....	10 s	.....	.....	0.28	7.1	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	29.38	746.2	30.15	765.8	35	1.7	79	w.	6	2.7	.....	2 c	sk.	.....	.....	0	0	clear	W. Line.

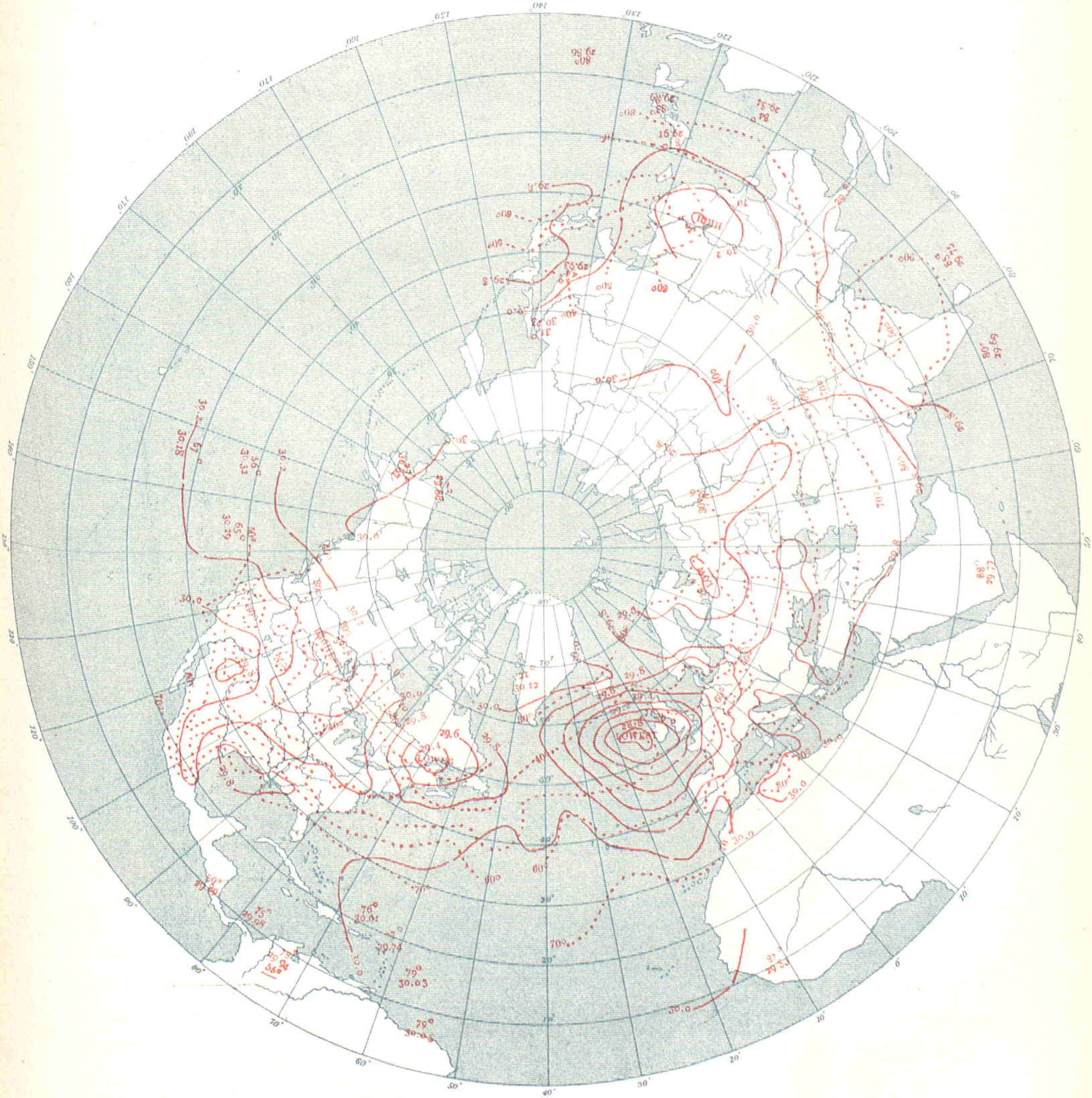
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–01	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Mobile, Alabama	29.77	756.1	29.81	757.2	63	17.2	93	ne.	4	1.8	.....	.....	10 s	.....	ne.	0.50	12.7	cloudy	J. D. Paxton.
Montgomery, Alabama	29.63	752.6	29.87	758.7	55.6	13.1	88	e.	7	3.1	.....	.....	10 s	.....	.....	0	0	cloudy	J. B. McLaughlin.
Moorhead, Minnesota	29.33	745.0	30.36	771.1	31	— 0.6	88	n.	10	4.5	.....	.....	10 s	.....	n.	0	0	cloudy	H. Bessant.
Morgantown, W. Virginia	29.05	737.9	30.09	764.3	33.5	0.8	74	calm	0	0	.....	0	fg.	.....	.....	0	0	clear	G. C. Lewis.
Mt. Washington, N. H.	22.99	583.9	29.40	746.7	10.0	—12.2	91	nw.	90	40.2	.....	.....	10n;fg	.....	nw.	0.68	17.3	light snow	J. G. Linsley.
Nashville, Tennessee	29.47	748.5	30.01	762.2	42.0	5.6	74	nw.	5	2.2	.....	.....	10 n	.....	w.	0.01	0.3	light rain	L. A. Jesunofsky.
New Haven, Connecticut	29.74	755.4	29.86	758.4	37	2.8	51	w.	12	5.4	.....	0	0	.....	.....	0	0	clear	J. H. Sherman.
New London, Connecticut	29.80	756.9	29.85	758.2	40	4.4	65	w.	13	5.8	.....	0	0	.....	.....	0	0	clear	J. G. Lynch.
New Orleans, Louisiana	29.73	755.1	29.79	756.7	67.0	19.4	87	e.	8	3.6	.....	0	9 s	.....	n.	1.30	33.0	cloudy	S. Dunne.
Newport, Rhode Island	29.79	756.7	29.84	757.9	39.3	4.1	51	w.	19	8.5	.....	2 k	0	w.	.....	0	0	clear	W. McGillivray.
New River, N. Carolina	.....	.....	.....	.....	43	6.1	94	ne.	.....	.....	I	.....	10 s	.....	e.	0.84	21.3	cloudy	C. C. Corbin.
New Shoreham, Rhode I'd.	29.79	756.7	29.82	757.4	39.0	3.9	65	nw.	24	10.7	.....	0	1 s	.....	nw.	0	0	clear	W. Davis.
New York, New York	29.76	755.9	29.94	760.5	34.5	1.4	78	sw.	12	5.4	.....	0	0	.....	.....	0	0	clear	E. B. Garriott.
Norfolk, Virginia	29.97	761.2	30.00	762.0	48	8.9	71	ne.	5	2.2	.....	0	hz.	.....	.....	0	0	clear	J. T. Elker.
North Platte, Nebraska	27.33	694.2	30.29	769.4	31.6	— 0.2	72	nw.	12	5.4	.....	.....	10 s	.....	.....	0.01	0.3	cloudy	E. F. Brady.
Olympia, Washington T'y	30.20	767.1	30.24	768.1	37.0	2.8	82	ne.	1	0.4	.....	.....	10 s	.....	calm	0	0	cloudy	J. Dascomb.
Omaha, Nebraska	29.04	737.6	30.26	768.6	36.2	2.3	82	nw.	11	4.9	.....	.....	10n;fg	.....	.....	0.01	0.3	light snow	A. Polink.
Ooglaamie, Pt. Barrow, Alas.	29.86	758.4	29.88	758.9	— 2.4	—19.1	87	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	P. H. Ray.
Oswego, New York	29.52	749.8	29.86	758.4	38.0	3.3	68	nw.	12	5.4	.....	3 k	0	nw.	.....	0.02	0.5	clear	S. W. Beall.
Palestine, Texas	29.42	747.3	29.98	761.5	49.0	9.4	93	ne.	18	8.0	.....	.....	10 s	.....	ne.	0.34	8.6	cloudy	L. M. Pindell.
Pensacola, Florida	29.73	755.1	29.76	755.9	65.3	18.5	93	e.	6	2.7	.....	0	1 s	.....	se.	0.62	15.7	clear	M. McGauran.
Philadelphia, Pa.	29.89	759.2	29.99	761.7	39	3.9	54	nw.	9	4.0	.....	0	0	.....	.....	0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	17.52	445.0	29.80	756.9	— 1.5	—18.6	79	nw.	8	3.6	.....	1 k	0	n.	.....	0.42	10.7	clear	L. M. Dey.
Ploche, Nevada	24.06	611.1	30.05	763.3	30	— 1.1	61	n.	14	6.3	.....	1 k	0	n.	.....	0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.22	742.2	30.05	763.3	33.8	1.0	74	w.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. H. Bryce.
Port Eads, Louisiana	29.75	755.6	29.76	755.9	68.1	20.1	93	sw.	1	0.4	.....	hz.	2 k	.....	w.	2.04	51.8	clear	H. G. Christian.
Port Huron, Michigan	29.34	745.2	30.04	763.0	32.8	0.4	83	w.	9	4.0	.....	.....	10 s	.....	.....	0	0	cloudy	W. O. Bailey.
Portland, Maine	29.55	750.6	29.60	751.8	41.0	5.0	87	w.	11	4.9	.....	8 cs	0	w.	.....	0	0	cloudy	D. C. Murphy.
Portland, Oregon	30.15	765.8	30.22	767.6	39.0	3.9	89	calm	0	0	.....	0	0	.....	.....	0	0	clear	M. L. Hearne.
Portsmouth, N. Carolina	.....	.....	.....	.....	45	7.2	60	ne.	34	15.2	.....	.....	10 ks	.....	ne.	0.27	6.9	cloudy	F. P. Chaffee.
Prescott, Arizona	24.62	625.3	29.84	757.9	31	— 0.6	74	s.	2	0.9	.....	0	0	.....	.....	0.17	4.3	clear	J. McN. Wright.
Provincetown, Mass.	29.72	754.9	29.75	755.6	39	3.9	65	sw.	18	8.0	.....	0	0	.....	.....	inap.	inap.	clear	P. T. Jenkins.
Punta Rassa, Florida	29.79	756.7	29.80	756.9	77	25.0	79	s.	14	6.3	.....	10 cs	0	w.	.....	0	0	cloudy	W. J. Evans.
Red Bluff, California	29.75	755.6	30.12	765.0	47.5	8.6	73	nw.	5	2.2	.....	0	0	.....	.....	0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.64	752.8	29.88	758.9	60	15.6	87	n.	8	3.6	.....	.....	10 s	.....	n.	0	0	cloudy	W. H. Taylor.
Rochester, New York	29.21	741.9	29.90	759.4	35	1.7	79	w.	19	8.5	.....	.....	10 ks	.....	w.	0.01	0.3	cloudy	A. T. Sherwood.
Roseburg, Oregon	29.67	753.6	30.23	767.8	40	4.4	86	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. J. Nanry.
Sacramento, California	30.00	762.0	30.08	764.0	53.2	11.8	66	n.	10	4.5	.....	0	0	.....	.....	0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.52	749.8	30.13	765.3	38.1	3.4	82	ne.	9	4.0	.....	7c;ck	0	w.	.....	0.01	0.3	fair	J. H. Webber.
St. Paul, Minnesota	29.36	745.7	30.28	769.1	33.0	0.6	78	calm	0	0	.....	0	0	.....	.....	c	0	clear	P. F. Lyons.
St. Vincent, Minnesota	29.54	750.3	30.45	773.4	26	— 3.3	77	n	5	2.2	.....	0	0	.....	.....	0	0	clear	G. Kingsbury.
Salt Lake City, Utah	25.66	651.8	30.03	762.7	35.8	2.1	49	n.	4	1.8	.. ..	1 k	0	.....	.....	0	0	clear	J. Craig.
San Antonio, Texas	29.22	742.2	29.92	760.0	53.6	12.0	86	n.	16	7.2	.....	.....	10 s	.....	n.	0	0	cloudy	E. Lane.
San Diego, California	29.92	760.0	29.99	761.7	47.3	8.5	91	ne.	4	1.8	.....	0	0	.....	.....	0	0	clear	A. C. Dobbins.
Sandusky, Ohio	29.38	746.2	30.08	764.0	36	2.2	75	w.	9	4.0	.....	.....	10 k	.....	w.	0	0	cloudy	M. H. Perry.
Sandy Hook, New Jersey	29.91	759.7	29.95	760.7	38.0	3.3	73	w.	18	8.0	.....	0	hz.	.....	calm	inap.	inap.	clear	B. A. Blundon.
San Francisco, California	30.04	763.0	30.10	764.5	49	9.4	89	calm	0	0	.....	0	fg.	.....	.....	0	0	clear	N. Gorom.
Santa Fé, New Mexico	23.09	586.5	29.85	758.2	24	— 4.4	67	nw.	11	4.9	.....	.....	10 s	.....	.....	0.02	0.5	cloudy	H. U. Jones.
Savannah, Georgia	29.83	757.7	29.92	760.0	51	10.6	83	n.	6	2.7	.....	.. ..	10 ks	.....	n.	0.18	4.6	cloudy	H. W. Ford.
Shreveport, Louisiana	29.73	755.1	29.97	761.2	48	8.9	93	n.	12	5.4	.....	6 cs	0	w.	.....	0.66	16.8	cloudy	E. N. Meekins.
Silver City, New Mexico	24.07	611.4	29.75	755.6	36	2.2	66	w.	1	0.4	.....	.....	10 ks	.....	e.	0	0	fair	J. B. Wallace.
Sitka, Alaska	29.91	759.7	29.98	761.5	38.6	3.7	72	e.	16	7.2	.....	.....	10 s	.....	ne.	0.33	8.4	threatening	J. J. McLean.
Smithville, North Carolina	29.90	759.4	29.94	760.5	45	7.2	100	ne.	8	3.6	.....	.....	10 s	.....	ne.	0	0	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	28.18	715.8	30.24	768.1	31	— 0.6	88	w.	1	0.4	.....	0	0	.....	.....	0	0	clear	D. Moore.
Springfield, Illinois	29.46	748.3	30.16	766.1	39.5	4.2	65	ne.	2	0.9	.. ..	1 ck	6 s	w.	w.	0	0	fair	T. B. Jennings.
Springfield, Massachusetts	29.68	753.9	29.81	757.2	40.0	4.4	57	sw.	8	3.6	.....	.....	10 s	.....	w.	0	0	cloudy	T. S. Outram.
Springfield, Mo	28.64	727.4	30.16	766.1	38	3.3	82	ne.	8	3.6	.....	.....	10 s	.....	ne.	0	0	cloudy	J. B. Marbury.
Stockton, Texas	27.00	685.8	30.03	762.7	38.0	3.3	100	n.	20	8.9	.....	.....	10 n	.....	n.	0.02	0.5	light rain	J. O'Dowd.
Thatcher's Island, Mass.	29.73	755.1	29.78	756.4	39.0	3.9	63	nw.	21	9.4	.....	4 k	0	nw.	.....	0	0	fair	G. Liebmann.
Toledo, Ohio	29.38	746.2	30.09	764.3	36	2.2	69	nw	4	1.8	.....	.....	10 k	.....	nw.	0	0	cloudy	A. Buell.
Tucson, Arizona	27.45	697.2	29.84	757.9	46	7.8	86	se.	3	1.3	.....	0	1 s	.....	.....	0.05	1.3	clear	J. L. Whiteside.
Umatilla, Oregon	29.92	760.0	30.29	769.4	34.3	1.3	84	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. Daly.
Uvalde, Texas	28.98	736.1	29.95	760.7	56	13.3	74	n.	6	2.7	.....	.....	10 s	.....	n.	0	0	cloudy	E. C. Imlay.
Vicksburg, Mississippi	29.66	753.4	29.92	760.0	54	12.2	86	nw.	12	5.4	.....	.....	10 s	.....	calm	0.61	15.5	cloudy	T. J. Kenan.
Visalia, California	29.66	753.4	30.03	762.7	47.1	8.4	88	e.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. T. Cochran.
Washington, D. C.	29.93	760.2	30.05	763.3	37	2.8	72	nw.	2	0.9	.....	2 ck	0	w.	.....	0	0	fair	B. M. Purssell.
West Las Animas, Colorado	26.25	666.7	30.21	767.3	24	— 4.4	64	n.	12	5.4	.....	0	4 s	.....	n.	0	0	fair	J. Grover.
Wickenburg, Arizona	.....	.....	.....	.....	37	2.8	88	calm	.....	.....	0	0	1 k	.....	n.	0.01	0.3	clear	H. A. Kremp.
Williamsport, Pa.	29.36	745.7	29.97	761.2	34	1.1	71	w.	12	5.4	.....	hz.	0	.....	.....	0	0	clear	B. F. Hough.
Wilmington, N. Carolina	29.90	759.4	29.96	761.0	45	7.2	93	n.	8	3.6	.....	.....	10 k	.....	n.	0.29	7.4	cloudy	E. W. McGann.
Winnemucca, Nevada	25.74	653.8	30.14	765.5	27	— 2.8	77	n.	6	2.7	.....	0	0	.....	.....	0	0	clear	J. R. Williams.
Yankton, Dakota	28.92	734.6	30.26	768.6	35	1.7	89	nw.	7	3.1	.....	.....	10 ks	.....	.....	0.16	4.1	cloudy	J. H. Atfield.
Yuma, Arizona	29.73	755.1	29.88	758.9	50.4	10.2	60	sw.	4	1.8	.....	0	0	.....	.....	0	0	clear	O. D. Stewart.
Sub-stations.																			
Bogota, U. S. Columbia	22.02	559.3	.....	.....	54.5	12.5	85	sw.	1.2	0.5	.....	.....	8 s	.....	w.	0	0	cloudy	Joaquin Gomez.
Bridgetown, Barbados, W.I.	30.02	762.5	30.03	762.7	79	26.1	90	e.	.....	.....	.....	5 k	5 ks	e.	e.	0	0	fair	J. A. Racker.
Buenaventura, U. S. C.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0	0	.....	J. I. Plume.
Guadeloupe, W. I.	29.92	760.0	29.94	760.5	77	25.0	87	e.	.....	.....	.....	4 k	2 ks	.....	.....	0	0	.....	B. Bigar.
Havana, Cuba, W. I.	29.86	758.4	29.90	759.4	79	26.1	82	se.	1.2	0.5	.....	5 cs	2 ks	calm	s.	0	0	fair	A. Van Caneghem.
Kingston, Jamaica, W. I.	29.96	761.0	29.97	761.2	78.0	25.6	76	se.	3	1.3	.....	0	1 ks	.....	e.	0	0	fine	Robert Johnston.
Nassau, W. I.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	F. M. Everett.
Paramaribo, S. A.	30.04	763.0	30.05	763.3	79	26.1	87	ne.	.....	.....	2	0	5 k	.....	e.	0	0	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.48	748.8	29.94	760.5	78	25.6	89	calm	.....	.....	0	.....	10 s	.....	calm	2.06	52.3	cloudy	Miss Flora A. Nichols.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	.....	.....	96	se.	.....	.....	4	0	1 k	.....	se.	0	0	clear	Earl Flint.
Santiago de Cuba, W. I.	29.95	760.7	29.98	761.5	76	24.4	81	calm	0	0	.....	3 ks	5 n	.....	ne.	0	0	cloudy	Robert Mason.
York Factory, B. A.	29.99	761.7	30.04	763.0	— 1.0	—18.3	84	e.	7	3.1	.....	3 k	2 s	e.	e.	0	0	fair	W. Wood.

STATIONS AND VESSELS.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
BRITISH NAVAL.																		
H. M. S. Agincourt, N. 47° 18′, W. 7° 19′	29.16	740.7	64	17.8	94	sw.			7–8		6	wsw.				7	wsw.	squally.
H. M. S. Alert, Mahe, Seychelles Islands	29.77	756.1	88.2	31.2	68	ssw.			2		2							showery.
H. M. S. Alexandra, Malta, Mediterranean	30.03	762.7	64.5	18.1	54	nnw.			3		1							blue sky.
H. M. S. Bacchante, Jaffa, Palestine	29.91	759.7	62	16.7	77	sw.			4–5		9	sw.				2	sw.	squally.
H. M. S. Cleopatra, N. 7° 48′ E. 71° 48′	29.69	754.1	79.5	26.4	86	n.			1		10	calm						d. clouds.
H. M. S. Comus, Pelew Island, Oceania	29.86	758.4	80	26.7	95	ene.			1–2		3	ne.						d. clouds.
H. M. S. Diamond, S. 34° 48′, E. 138° 26′	30.09	764.3	63	17.2	83	calm			0		0							blue sky.
H. M. S. Dido, N. 17° 00′, W. 61° 45′	30.07	763.8	77	25.0		e.			1–2		2	ne.						d. clouds.
H. M. S. Druid, N. 18° 20′, W. 75° 50′	29.96	761.0	79.5	26.4	86	ese.			2–3		3	e.				2	e.	d. clouds.
H. M. S. Dryad, N. 25° 07′ E. 62° 19′	29.72	754.9				wsw.			1		1	sw.				1	wsw.	blue sky.
H. M. S. Eclipse, S. 13° 58′, E. 41° 37′			83	28.3	100	se.			3		3					2	s.	d. clouds.
H. M. S. Fawn, N. 15° 04′, E. 42° 14′	29.65	753.1	86	30.0	53	s.			5		0						s.	blue sky.
H. M. S. Gannet, S. 33° 01′, W. 71° 37′	30.10	764.5	55	12.8	71	calm			0		0							misty.
H. M. S. Garnet, Montevideo, Uruguay	29.99	761.7	60	15.6	70	s.			3		7							d. clouds.
H. M. S. Inconstant, S. 33° 20′, E. 27° 40′	29.91	759.7	75	23.9	90	sw.			3		5	sw.				4	sw.	d. clouds.
H. M. S. Iron Duke, N. 22° 16′, E. 114° 10′	30.03	762.7	69	20.6	90	nne.			1		6	n.						d. clouds.
H. M. S. Lark, S. 10° 51′, E. 162° 26′	29.86	758.4	83.3	28.5		calm			0		4							showery.
H. M. S. Liffey, Coquimbo, Chili	30.02	762.5	60	15.6		calm			0		10							overcast.
H. M. S. Magpie, N. 33° 31′, E. 135° 19′	29.79	756.7	60.5	15.8	82	n.			3		10					4	s.	overcast.
H. M. S. Malabar, N. 14° 40′, E. 42° 32′	29.68	753.9	82	27.8	91	ssw.			4–5		0					3	ssw.	blue sky.
H. M. S. Nelson, Sydney, N. S. Wales	30.03	762.7	71	21.7	85	nw.			1		1	s.						blue sky.
H. M. S. Northampton, Bermuda, W. I.	29.97	761.2	65	18.3	78	s.			2		9	ssw.						d. clouds.
H. M. S. Orontes, N. 37° 26′ E. 10° 00′	30.04	763.0	68.5	20.3	76	ne.			2							1	ne.	blue sky.
H. M. S. Pegasus, N. 9° 44′, E. 111° 59′	29.84	757.9	84	28.9	91	calm			0		0					1	w.	blue sky.
H. M. S. Rambler, St. Paul de Loando, Benguela	29.87	758.7	80	26.7	95	wsw.			2		5							d. clouds.
H. M. S. Rocket, Esquimalt, Vancouver Id., B. C.	30.28	769.1	46	7.8		calm			0		8							d. clouds.
H. M. S. Superb, N. 39° 38′, E. 19° 45′*	29.89	759.2	49	9.4	93	w.			2–3		3	wnw.						d. clouds.
H. M. S. Tamar, N. 37° 23′ E. 10° 03′	30.07	763.8	61.5	16.4	66	n.			1		2					1	nnw.	d. clouds.
H. M. S. Triumph, Valparaiso, Chili	30.08	764.0	55	12.8	73	calm			0		2	calm						d. clouds.
PORTUGUESE NAVAL.																		
Rio Lima, N. 12° 06′, W. 16° 52′	30.06	763.4	75.0	23.9	97	calm			0		0					1		blue sky.
Tamega, Macao, China	30.02	762.5	75.2	24.0	90	n.			2		8		n.	4 h'r	4 h'r	2	n.	d. clouds.
UNITED STATES NAVAL.																		
Navy Yard, Pensacola, Fla	29.73	755.1	68	20.0	79	e.	10	4.5			5		se.	0.52	13.2			fair.
Navy Yard, Portsmouth, N. H.	29.66	753.4	41	5.0	57	wsw.	24	10.7			3		w.	0	0			fair.
Naval Hospital, Yokohama, Japan	29.59	751.6	63.5	17.5	94	sw.			4		10		sw.	0.11	2.8			gloomy.
Adams, N. 7° 07′ W. 81° 03′	29.78	756.4	79	26.1	91	ssw.			1–2		8		calm	0	0	sm'h		fair.
Alaska, S. 0° 18′, W. 81° 00′	29.90	759.4	77	25.0	86	calm			0		0			0	0	sm'h		clear.
Alert, Kobe, Japan*	29.67	753.6	57	13.9	94	calm			0		10		calm			sm'h		misty.
Alliance, N. 21° 55′ W. 90° 00′	29.74	755.4	77	25.0	95	ssw.			2		2			0	0	sm'h		clear.
Ashuelot, Kobe, Japan	29.83	757.7	56	13.3	94	sw.			2		10		calm					drizzling.
Brooklyn, Montevideo, Uruguay	29.96	761.0	60	15.6	71	ssw.	8	3.6			8		sw.	0	0	mod.	ssw.	cloudy.
Colorado, New York, N. Y.	29.88	758.9	38	3.3	72	sw.	4	1.8			0			0	0			clear.
Enterprise, Kingston, Jamaica, W. I*	29.93	760.2	79	26.1	82	ese.			3		2		ese.					clear.
Essex, S. 2° 17′ W. 15° 36′	29.95	760.7	80	26.7	87	sse.			3		2					mod.	s.	fair.
Franklin, Norfolk, Va.	30.02	762.5	46	7.8	69	ne.	6	2.7			2		calm	0	0			fair.
Galena, Leghorn, Italy	30.07	763.8	61	16.1	66	sw.			1		2					sm'h		fair.
Independence, Navy Yard, Mare Island, Cal.	29.92	760.0	47	8.3	100	calm			0		0			0	0			clear.
Kearsarge, Samana Bay, Hayti, W. I.	30.04	763.0	77	25.0	86	se.			2		2		se.			sm'h		fair.
Lackawanna, Callao, Peru*	29.88	758.9	64	17.8	89	calm			0		2		ne.					clear.
Lancaster, Leghorn, Italy*	30.02	762.5	63	17.2	47	sw.			1		8		calm	0	0			fair.
Marion, S. 29° 19′, E. 9° 16′	30.15	765.8	71	21.7	95	s.			3		5		ssw.			sm'h		fair.
Michigan, Erie, Pa.	29.89	759.2	37	2.8	100	wnw.			3		8		w.					cloudy.
Minnesota, Newport, R. I.	29.84	757.9	40	4.4	64	wsw.	4	1.8			2		nw.					clear.
Monocacy, Kobe, Japan	29.83	757.7	55	12.8	93	wsw.			1		10		calm					rainy.
New Hampshire, Newport, R. I.	29.79	756.7	45	7.2	46	w.			3		0			0	0	sm'h		clear.
Nipsic, N. 41° 44′, E. 3° 09′	29.84	757.9	59	15.0	88	s.			4		10					sm'h		overcast.
Onward, Callao, Peru	30.09	764.3	61	16.1	94	calm			0		2		n.			long	w.	clear.
Palos, Kobe, Japan	29.86	758.4	57	13.9	87	calm			0		10		calm					raining.
Passaic, Washington, D. C.	30.05	763.3	39	3.9	66	calm			0		0							clear.
Pensacola, Callao, Peru	29.97	761.2	65	18.3	84	calm	0	0			2		e.	0	0	sm'h		fair.
Powhatan, Port Royal, Jamaica, W. I.	29.97	761.2	79	26.1	82	e.			1		2		e.					clear.
Portsmouth, Newport, R. I.	29.81	757.2	39	3.9	100	wnw.			2		2					sm'h		clear.
Quinnebaug, Leghorn, Italy	30.04	763.0	59	15.0	54	sw.			1		8		calm	0	0	sm'h		cloudy.
Ranger, Acapulco, Mexico*	29.81	757.2	77	25.0	77	calm			0		0			0	0	sm'h		clear.
Richmond, Kobe, Japan*	29.78	756.4	58	14.4	88	sw.			1		10		calm	2.15	54.6			cloudy.
Shenandoah, Aspinwall, Panama*	29.98	761.5	75	23.9	95	se.			1		2		calm			sm'h		hazy.
St. Louis, League Island, Pa.	30.24	768.1	37	2.8	81	wnw.	10	4.5			0			0	0			clear.
Swatara, Kobe, Japan*	29.86	758.4	58	14.4	88	wsw.			2		10		calm			sm'h		drizzling.
Tennessee, Port Royal, S. C.	29.94	760.5	53	11.7	100	n.	12	5.4			10			0.09	2.3			hazy.
Vandalia, Port Royal, S. C.	30.17	766.3	50	10.0	100	ne.			3		10		n.					foggy.
Wabash, Boston, Mass.	29.72	754.9	40	4.4	64	wsw.	17	7.6			2		wsw.	0	0			fair.
Wachusetts, Sitka, Alaska	29.92	760.0	35	1.7	100	ese.			3		10		calm					squally.
Wyoming, Port Royal, S. C.	29.92	760.0	49	9.4	93	nne.	16	7.2			10		calm	0.06	1.5			overcast.
Yantic, Port Royal, S. C*	29.87	758.7	51	10.6	93	n.			3		10							showery.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
										Upper.	Lower.	Upper.	Lower.					
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Polynesian, Liverpool, England*	29.11	739.4	58	14.4		se.			4		4		wsw.	0	0			fair.
AMERICAN STEAMSHIP COMPANY.																		
S. S. Illinois, N. 39° 00′, W. 70° 30′	29.86	758.4	42	5.6	91	w.			4		2		w.			sm'h	w.	fine.
S. S. Indiana, N. 40° 05′, W. 51° 13′†	30.10	764.5	54	12.2	?	sw.			4		8		wsw.	light	light	light	w.	cloudy.
S. S. Ohio, N. 45° 20′, W. 32° 00′†	29.84	757.9																
ANCHOR LINE.																		
S. S. Assyria, N. 42° 53′, W. 66° 39′*†	29.79	756.7	42	5.6		wsw.			6		0			0	0	mod.	wsw.	clear.
S. S. Ethiopia, N. 54° 00′, W. 20° 20′	28.90	734.0	50	10.0	100	ene.			6		10		ene.	12 h'r	12 h'r	h'vy	nne.	overcast.
S. S. Galatia, London, Eng.†	29.40	746.7				se.			6		2		sse.	0	0			clear.
S. S. India, N. 33° 46′, E. 23° 57′*	29.88	758.9	59	15.0	82	wnw.			5		3							fair.
ATLAS LINE.																		
S. S. Alvo, Savanilla, U. S. C.	29.97	761.2				nne.			8		6		ne.	0	0			cloudy.
S. S. Arden, N. 13° 30′, W. 71° 54′						ne.			1		2		ne.					fine.
S. S. Athos, N. 19° 30′, W. 74° 48′	29.68	753.9				se.			1		0			0	0	sm'h		clear
S. S. Claribel, N. 22° 19′, W. 74° 09′*†	30.08	764.0	79	26.1	86	sse.			3		5		sse.	0	0	mod.	sse.	fine.
BOSTON AND HALIFAX.																		
S. S. Carroll, Boston, Mass.†	29.83	757.7				nnw.			4					0	0			clear.
BRITISH METEOROLOGICAL OFFICE.																		
Bk. Arran, S. 6° 47′ W. 25° 21′	29.96	761.0	81	27.2	82	sse.			4		5							d. clouds.
S. Baroda, N. 4° 46′, E. 84° 11′	29.75	755.6	84.5	29.2	79	ne.			3		7							d. clouds.
British Merchant, S. 6° 51′, E. 88° 36′	29.76	755.9	81.5	27.5	83	e.			0–1		7							gloomy.
Bk. Commewyne, N. 54° 20′, W. 15° 30′	28.76	730.5	56	13.3	90	e.			5		6							d. clouds.
CROMWELL LINE.																		
S. S. Hudson, N. 26° 51′, W. 86° 42′†	29.84	757.9	69	20.6		ne.			6		10		ne.	12 h'r	12 h'r	cross	se.	overcast.
CUNARD LINE.																		
S. S. Bothnia, N. 50° 32′, W. 18° 12′	28.98	736.1				w.			8		8		w.	1 h'r	1 h r	h'vy	wnw.	threatening.
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. Canada, N. 48° 36′ W 21° 05′	29.30	744.2	46.4	8.0		wnw.			4		6		nw.	6 h'r	6 h'r	h'vy	wnw.	
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Gellert, N. 45° 30′, W. 38° 52′	29.94	760.5	59	15.0		w.			1		5		w.	0	0	mod.	ne.	
S. S. Lessing, New York, N. Y	29.85	758.3	38	3.3		wsw.			2		2			0	0			
S. S. Silesia, N. 41° 25′, W. 60° 08′ *†	29.95	760.7	42.8	6.0		wsw.			5		8		w.	0	0	5	w.	cloudy.
INMAN LINE.																		
S. S. City of New York, N. 43° 43′, W. 44° 23′	29.97	761.2				nnw.			4		3		nw.	3 h'r	3 h'r	cross	n;w	clear.
JOHNSTON LINE.																		
S. S. Thanemore, N. 40° 00′ W. 59° 54′	29.92	760.0				wnw.			5		10		wnw.	0	0		sw.	cloudy.
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, N. 36° —′, W. 16° —′*†	30.05	763.3	63	17.2		wsw.			1		5?		w.	20 h'r	20 h'r	long	w.	cloudy.?
S. S. Humboldt, N. 16° 30′, W. 25° 40′*	30.05	763.3	69.5	20.8	77	n.			3		5			0	0	3	con.	d. clouds.
MALLORY LINE.																		
S. S. Colorado, N. 28° 10′, W. 91° 15′†	29.70	754.4	71	21.7		e.			2		8		e.	1 h'r	1 h'r	mod.	nw.	cloudy.
MERCHANTS' EXPRESS LINE.																		
S. S. Hermod, N. 41° 50′, W. 58° 20′*†	29.60	751.8	51.8	11.0		w.			2		6		wsw.	6 h'r	6 h'r	long	w.	threatening
NATIONAL LINE.																		
S. S. Canada, N. 46° 47′ W. 27° 50′†	29.67	753.6	50	10.0		nw.			6		4		w.	4 h'r	4 h'r	cross	var.	showery.
S. S. England, Liverpool, Eng	29.19	741.4				w.			4		10			12 h'r	12 h'r			heavy rain.
S. S. Erin, London, England	29.20	741.7	55	12.8		ssw.			4		10		wsw.	3 h'r	3 h'r			threatening.
S. S. Helvetia, N. 41° 29′, W. 52° 07′	30.02	762.5	45	7.2		se.			3		9		se.	7 h'r	7 h'r	sm'h		foggy.
S. S. Holland, N. 49° 24′, W. 7° 31′	28.98	736.1	54	12.2		se.			2		10			12 h'r	12 h'r	mod.	s.	raining.
S. S. Italy, N. 43° 08′, W. 47° 20′	30.07	763.8				wnw.			2		8		wnw.	2 h'r	2 h'r	long	n.	cloudy.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Niagara, Havana, Cuba†	29.88	758.9	77	25.0		calm			0		0			0	0			clear.
S. S. Santiago, Jagua, Cuba, W. I.†	30.02	762.5	78	25.6		calm			0		1		se.	1 h'r	1 h'r			raining.
NEW YORK, HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, Havana, Cuba, W. I*†	30.00	762.0	75	23.9		s.			3		4		s.	0	0			hazy.
S. S. City of Puebla, N. 21° 30′ W. 89° 20′†	29.63	752.6	77	25.0		sse.			4		5		sse.			sm'h		
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Atlas, Jacmel, Hayti, W. I.*†	30.09	764.3	77	25.0												sm'h		clear.
S. S. Lepanto, N. 40° 30′, W. 71° 50′*	29.91	759.7	36	2.2		w.			6								w.	clear.
S. S. New York, N. 25° 52′, W. 80° 03′*†	29.90	759.4	78	25.6		ssw.			3								se.	cloudy.
S. S. P. Caland, N. 42° 34′ W. 55° 17′	29.95	760.7	42.8	6.0		var.			2									fine.
S. S. W. A. Scholten, N. 40° 30′, W. 70° 00′	29.70	754.4	41.0	5.0		w.			5							sm'h		
NORTH GERMAN LLOYD.																		
S. S. Graf Bismarck, N 26° 02′, W. 17° 20′	30.16	766.1	71.6	22.0		nne.			3		2		nne	0	0	sm'h	nw.	fair.
S. S. Hermann, N. 44° 13′, W. 42° 40′†	29.79?	756.7?	53.6	12.0		ssw.			3		5		e.	0	0	sm'h	s.	fair.
S. S. Hohenzollern, N. 23° 55′, W. 22° 07′*	30.06	763.5	60.8	16.0		nne.			4		5		nne.	0	0	sm'h	ne.	fair.
S. S. Koln, N. 40° 36′, W. 53° 55′*	29.94	760.5	59.0	15.0	76	nw.			3		10			0	0	sm'h	sw.	
S. S. Lepzig, N. 42° 33′, W. 45° 59′	30.02	762.5	41.0	5.0	74	nne.			4		2		n.	7 h'r	7 h'r	mod.	n.	fair.
S. S. Main, N. 40° 23′, W. 69° 15′	29.89	759.2	46.4	8.0		wsw.			3–4		8		w.	0	0	mod.	wsw.	fine.
S. S. Neckar, N. 42° 27′, W. 44° 46′	29.90	759.4	48.2	9.0		nnw.			6		8		nnw.	0	0	mod.	nnw.	covered.
S. S. Nurnburg, N. 52° 40′, E. 3° 26′*	29.57	751.1	48.2	9.0		sse.			4		10		s.	4¼ h'r	4¼ hr	sm'h	s.	hazy.
S. S. Oder, N. 49° 33′, W. 14° 20′	28.92	734.6	46.4	8.0		wnw			7		9		w.	rain	rain	r'gh	w.	rainy.
S. S. Ohio, Baltimore, Md	30.05	763.3				w.			1		3		wnw.	0	0			fair.
S. S. Saller, N. 44° 55′, W. 46° 13′	29.93	760.2	48.2	9.0		nw.			6		10		nw.	2 h'r	2 h'r	mod.	nw.	cloudy.
S. S. Strassburg, N. 38° 14′, W. 72° 27′	29.98	761.5	54.0	12.2	93	n;w			3–4		5		w.	0	0	sm'h	w.	fair.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Belgic, San Francisco, Cal.†	30.04	763.0	49	9.4	85	calm			0		0			0	0	sm'h		clear.
S. S. Oceanic, N. 32° 00′ E. 133° 00′*	29.77	756.1	68	20.0	74	nw.			4		10		nw.			5	nw.	rainy.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, Savannah, Ga†	29.87	758.7				ne.			1		10		ne.	0	0			smoky.
S. S. Seminole, Boston, Mass†	29.67	753 6	48	8.9	85	wnw.			6		2		wnw.	0	0			clear.
OREGON IMPROVEMENT COMPANY.																		
S. S. Mississippi, Seattle, Wash. Ter.†	30.27	768.8	47	8.3	85	calm			0		8		nw.					fair.
S. S. Willamette, Seattle, Wash. Ter*†	30.28	769.1	49	9.4	78	calm			0		3			0	0			fine.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. City of Chester, Sitka Alaska*†	30.06?	763.5?	38	3.3	?	nw.			1		5		n.			sm'h		misty.
S. S. Columbia, N. 40° 25′, W. 124° 32′†	30.17	766.3	48	8.9	85	nnw.			2		3		nnw.			sm'h	nw.	clear.
S. S. Oregon, San Francisco, Cal†	30.05	763.3	49	9.4	93	calm			0		0							clear.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, San Francisco, Cal†	30. 06	763.5	47	8.3	85	calm			0		0					light	sw.	clear.
S. S. Idaho, N. 39° 45′, W. 124° 10′†	30.10	764.5	50	10.0	100	sw.			2		0							clear.
S. S. State of California, Portland, Oregon†	30.19	766.8	38	3.3	100	calm			0		0					sm'h		misty.
S. S. Victoria, N. 45° 32′ W. 124° 44′†	30.17	766.2	47	8.3	92	calm			0		10							
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, Sydney, N. S. W	30.04	763.0	64	17.8	78	ne.			2		2		ne.					clear.
S. S. City of New York, Sydney, N. S. W.†	30.10	764.5	72	22.2	90	e.			2		0			0	0			clear.
S. S. City of Pekin, Punta Arenas, Costa Rico†	29.89	759.2	80	26.7	91	se.			1		5		w.			sm'h		hazy.
S. S. City of Rio de Janeiro, Acapulco, Mexico*	30.06	763.5	76	24.4	77	n.			1		0					light		clear.
S. S. City of Sydney, N. 26° 51′, W. 147° 41′†	30.18	766.6	67	19.4	79	e.			4		5		ne.			mod.	ne.	drizzling.
S. S. City of Tokio, N. 36° 33′, W. 146° 37′†	30.32	770.1	56	13.3	100	w.			4		10		wnw.	2 h'r	2 h'r	small	w.	misty.
S. S. Colon, Aspinwall, Panama†	29.88	758.9	74	23.3		s.			2		0			0	0	sm'h		clear.
S. S. South Carolina, Panama, Panama†	29.97	761.2	80	26.7	78	calm			0		0			0	0	sm'h		fine.
S. S. Zelandia, N. 34° 40′, W. 131° 05′	30.29	769.4	56	13.3	81	nw.			3		10		nw.			mod.	nw.	foggy
QUEBEC STEAM SHIP COMPANY.																		
S. S. Muriel, Barbadoes, W. I.	30.05	763.3	82	27.8		ene.			3		0			0	0	sm'h		fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.			Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Amount and kind.		Direction.				Character.	Direction from.	
								Force.	Upper.	Lower.	Upper.	Lower.					
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	From.	From.	Inch.	Mill.			
RED STAR LINE.																	
S. S. Belgenland, Antwerp, Belgium†	29.59	751.6	51	10.6	86	se.			5		7?		sse.	0	0			overcast?
S. S. Nederland, N. 40° 02′, W. 59° 22′*†	30.37	771.4	52	11.1		wsw.			3		8		wsw.	sh'rs	sh'rs	mod.	wsw.	cloudy.
S. S. Rhynland, N. 48° 49′, W. 21° 19′	29.33	745.0	47	8.3	77	w.			6		7		w.	0.4	10.	hv'y	w.	cloudy.
S. S. Switzerland, N. 40° 25′ W. 48° 01′†	30.07	763.8				ne.			1		8		sse.	3 h'r	3 h'r	mod	n.	fair.
S. S. Vaderland, N. 49° 50′, W. 5° 28′	29.48	748 8	54	12.2	93	sse.			4		8		s.	6 h'r	6 h'r	long	ssw.	hazy.
S. S. Waesland, Jersey City, New Jersey	29.90	759.4	42	5.6		wsw.			2		0			0	0			clear.
ROTTERDAM LINE.																		
S. S. Schiedam, New York, N. Y†	29.99	761.7	45.1	7.3	70	wnw.			4		5		wnw.	0	0			fair.
STATE LINE.																		
S. S. State of Florida, N. 47° 29′ W. 34° 05′	29.89	759.2	49	9.4		wnw.			4		5		nw.	0	0	mod.	n.	clear.
THINGVALLA LINE.																		
S. S. Thingvalla, Christiania, Norway†	30.12	765.0	43.7	6.5		ne.			2		2		ne.	0	0	sm'h	ne.	clear.
WARREN LINE.																		
S. S. Iowa, N. 42° 16′, W. 66° 51′*†	29.86	758 4	38	3.3		sw.			6		0			0	0	mod.	sw.	clear.
WHITE CROSS LINE.																		
S. S. Hermann, N. 40° 09′ W. 65° 28′†	29.95	760.7				w.			5	4 ck	0			0	0	long	w.	clear.
WHITE STAR LINE.																		
S. S. Adriatic, N. 49° 31′, W. 25° 48†	29.47	748.5	46	7.8		n.			6		10		nne.	0	0	mod.	nnw.	squally.
S. S. Celtic, N. 51° 12′, W. 14° 30′†	28.76	730.5	47	8.3		wnw.			5		10		w.	12 h'r	12 h'r	rg'h	w.	cloudy.
WILSON LINE.																		
S. S. Romano, N. 43° 01′, W. 46° 57′†*	29.74	755.4	42	5.6		w.			2		10		nw.	3 h'r	3 h'r	mod.	nw.	overcast.
S. S. Salerno, N. 52° 46 E. 1° 53′*	29.41	747.0	46.2	7.9	92	se			3		10		se.			sm'h		showery.
WINDSOR LINE.																		
S. S, Catherine Whiting, Philadelphia, Pa†	30.04	763.0				wnw.			1		•			0	0			
S. S. Norman, N. 41° 16′, W. 71° 05′	29.52	749.8				wnw.			3		0			0	0	h'vy	sw.	clear.
MISCELLANEOUS.																		
Schr. Addie Fuller, N. 27° 50′, W. 79° 41′†	29.93	760.2	76	24.4	95	w.			3	0	8 ks		w.	0.22	5.6	short	w.	cloudy.
Bk. Adelaide, Rio de Janeiro, Brazil*†	30.10	764.5	83	28.3		se.												
Schr. Ajax, Mobile, Ala†	29.96	761.0				n.			1		9		ne.	2 h'r	2 h'r			clearing.
Bk. Alpha, N. 23° 50′, W. 68° 00′†	29.97	761.2	76	24.4		sse.			4		2		s.	0	0	sm'h		fair.
Bk Antioch, S. 35° 00′, W. 12° 40′*†	30.07	763.8	75	23.9		nw.			5		3		wnw.	0	0	mod.	wsw.	clear.
Schr. Asa Eldridge, Sand Key Lighthouse, Fla†	29.95	760.7				s.			3		5		ssw.	2 h'r	2 h'r			hazy.
Bk. Aureola, N. 14° 51′ W. 32° 51′*†	30.23	767.8	80	26.7		ene.			5		5		ne.	0	0	mod.	ene.	fair.
Schr Annie M. Smull, S. 41° 53′. E. 26° —*†	29.80	756.9	60	15.6		wsw.								0	0			
Bk. Bergenseren, Off Valencia, Spain†	29.80	756.9				ssw.			1		hz.			0	0			hazy.
Bkt. Carrie Heckle, N. 24° 33′ W. 68° 41′*†	30.14	765.5	77	25.0		sse.			4		2		sse.	0	0	sm'h	sse.	clear.
Bk. Celestina, S. 26° 07′ W. 39° 48′*†	29.10	739.1				n.			3				n.	0	0	light	n.	fine.
Bk. Champion, N. 40° 54′, W. 48° 05′†	30.21	767.3				n.			3		5		s.	0	0	sm'h	ne.	
Dora, N. 24° 38′ W. 83° 31′†	29.51?	749.5?	77.9	25.5		ssw.			5		5		ssw.	3 h'r	3 h'r	mod.	s.	hazy.
Bk. E. L. Pettingill, N. 23° 18′ W. 130° 55′†	30.30	769.6				ne.			4		5		ne.	shr's	shr's	r'gh	nne.	d. clouds.
S. Enoch Train, N. 46° 04′ W. 34° 04′*	29.84	757.9				nw.			4		3		nw.	0	0	light	nw.	fine.
S. Exporter, N. 20° 20′, W. 30° 00′*†	30.25	768.3				e.			4		1		e.	0	0	sm'h		fine
S. Festina Lente, N. 45° 38′, W. 44° 30′*	29.92	760.0	52	11.1		ssw.			4		10		sw.	½h'r	½h'r	long	nne.	drizzling.
U.S. F.C.S. Fish Hawk, Quantico, Va†	30.12	765.0	42	5.6	75	nw.			2		2		w.	0	0			clear.
S. Grecian, S. 38° 49′, W. 11° 14′*†	29.95	760.7	64	17.8		nnw.			5		10		sw.	0	0	long	wsw.	cloudy.
Bk. Freya, N. 37° 15′, W. 57° 55′			60	15.6		w.			3		5		nw.	2 h'r	2 h'r	mod.	w.	fair.
Bk. Granville, S. 36° 44′, E. 20° 05′*†	30.10	764.5				w.			1				nw.	rain	rain	long	wsw.	clear.
Bk. Hattie G. McFarland, Baltimore, Md.*†	30.02	762.5	42	5.6		nw.			3		1		nw.	0	0			clear.
Schr. Henry Denison, Port Antonio, Jamaica, W. I†	29.98	761.5				ene.			1-3		1		e.	0	0			fine.
S. Hedwig, N. 42° 51′, W. 42° 40′	29.93	760.3	57.2	14.0	100	sw.			4		9		nw.	1 h'r	1 h'r	3	nne.	foggy
Schr. John L. Thomas, N. 22° 35′ W. 71° 15′*†	30.10	764.5				se.					1		s.	0	0	mod.	sse.	fine.
Bg John Wesley, Sagua la Grande, Cuba, W. I.†	29.87	758.7	80	26.7		s.			1		0			0	0			clear.
Bk. Jona, N. 38° 20′, W. 50° 47′*†	30.25	768.3				ssw.			3		10		w.	2 h'r	2 h'r	hv'y	var.	cloudy.
Bkt. Josephine, Aspinwall, Panama*†	30.00	762 0	80	26.7	74	s.			2		0			0	0			clear.
S. Lake Erie, N. 40° 00′ W. 59° 30′	29.95	760.7				wsw.			6		8?		sw.	hv'y	hv'y	mod.	w.	clear?
Bk. Liberia, N. 26° 06′, W. 25° 50′*†	30.25	768.3	76	24.4	76	nw.			2		2			0	0	long	nw.	fine.
Light House Tender, Laurel, N. 25° 01′, W. 80° 26′†	29.88	758.9	80	26.7		ssw.			4		8		w.	0	0	h'vy	s.	cloudy.
Schr. Maggie Abbott, N. 29° —′ W. 70° —′*†	29.90	759.4				s.								rain	rain	hv'y	w.	cloudy.
S. S. Malabar, N. 36° 19′, W. 7° 10′*†	29.92	760.0				sw.			2		5?		sw.	0	0	sm'h		cloudy.?
Bg. Medina, Key Francis, W. I.†	30.01	762.2				se.			1		5		se.					fine
S. S. Nebo, Rio de Janeiro, Brazil*†	29.75	755.6				nnw.			1		0			0	0			clear.
S. S. New York, N. 38° 48′, E. 5° 31′*†	30.00	762.0				e.			3				e.	0	0	mod.	e.	fair.
Bk. Peppina, N. 46° 22′, W. 3° 51′†	29.49	749.0	57	13.9	87	sw.			8		10		sw.			r'gh	w.	drizzling.
S. S. Radnorshire, N. 41° 50′, W. 29° 30′*†	29.88	758.9				n.			4		2		n.	0	0	mod.	n.	
S. Salisbury, N. 15° 06′, W. 36° 04′*	30.12	765.1	75.7	24.3	79	ene.			4		4		ene.	0	0	mod.	ene.	fair.
Bkt. Spotless, S. 1° 01′, W. 28° 33′						sw.										mod.	se.	cloudy.
Bk. Stella, S. 52° 58′, W. 81° 40′*†	29.92	760.0	44.2	6.8	95	wnw.			1		6		w.	0	0	mod.	w.	d. clouds.
S. Washington, N. 39° 07′, W. 67° 10′*†	29.88	758 0				nnw.			3		10			0	0	sm'h	wnw.	cloudy.
Bg. Wanburn, S. 6° 20′, W. 34° 21′*†	30.10	764 5				ese.			4		7		ese.			light	ese.	
S. Wm. Woodbury. N. 43° 42′, W. 36° 23′*†	29.82	757 4	60	15.6		w.			1				w.			cross	nw.	clear.

International Chart I. April 13, 1882. Isobars and Isotherms.



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON APRIL 14, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours	.....	.....	29.89	759 3	68.7	20.4	74	ne.	.....	.....	3	.....	0	.....	.....	0	0	clear	Moiroud.
Algiers	.....	.....	29.84	757.8	72.3	22.4	47	w.	.....	.....	7	.....	2	.....	.....	inap.	inap.	fair	Nicolas.
La Calle	.....	.....	29.82	757.5	77.4	25.2	55	nne.	.....	.....	2	.....	1	.....	.....	0	0	very fair	Foufrède.
Tunis	.....	.....	29.87	758.8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.01	762.2	85.6	29.8	12	nw.	.....	.....	1	.....	2	.....	.....	inap.	inap.	fair	Dumas.
Tebessa	.....	.....	30.02	762.5	69.1	20.6	44	ssw.	.....	.....	5	.....	5	.....	.....	0	0	cloudy	Derché.
Gerlville	.....	.....	.....	.....	80.2	26.8	11	sw.	.....	.....	6	.....	2	.....	.....	0	0	fair	Lonchamp.
Laghouat	.....	.....	29.99	761.8	83.1	28.4	73	s.	.....	.....	6	.....	0	.....	.....	0	0	clear	Abraham.
Biskra	.....	.....	30.02	762.6	82.4	28.0	22	sw.	.....	.....	3	.....	1	.....	.....	0	0	very fair	Malau.
Australian.																			
Melbourne, Victoria	29.94	760.5	30.03	762.7	58.5	14.7	74	sw.	2	0.9	.....	.....	8	.....	.....	0	0	dull	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.21	741.8	29.78	756.5	60.8	16.0	33	w.	.....	.....	6	.....	10	.....	.....	0	0	.....	Prof. Ivan Stozir.
Cracow, I. R Observatory	28.84	732.4	29.60	751.7	52.5	11.4	55	wsw.	6.9	3.1	.....	.....	10	.....	.....	0	0	.....	Dr. Wierzbiski.
Eperies	28.75	730.2	29.62	752.3	52.2	11.2	57	se.	.....	.....	3	.....	10 s	.....	.....	0	0	.....	Julius Mikolik.
Gratz	28.46	722.8	29.68	753.9	60.4	15.8	49	sw.	.....	.....	1	.....	8	.....	.....	0	0	.....	Andreas Rospini.
Hermannstadt	28.27	718.0	29.66	753.3	61.3	16.3	33	nw.	.....	.....	2	.....	5	.....	.....	0	0	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.31	719.1	29.63	752.5	56.3	13.5	56	wnw.	.....	.....	1	.....	10	.....	.....	0	0	gloomy	The Staff.
Lemberg	28.63	727.2	29.60	751.9	54.0	12.2	48	n.	.....	.....	4	.....	9	.....	.....	0	0	.....	Dr. T. Stanecki.
Pola	29.76	756.0	29.87	758.8	60.1	15.6	51	s.	.....	.....	2	.....	7	.....	.....	0	0	.....	I. R.Hydrographic Office.
Szathmar	29.23	742.4	29.69	754.1	57.7	14.3	30	sw.	.....	.....	4	.....	10	.....	.....	0	0	.....	Joseph Midlinszky, S. J.
Szegedin	29.45	748.1	29.73	755.1	57.2	14.0	47	sw.	.....	.....	3	.....	4	.....	.....	b	0	.....	Karl Stancel.
Trieste	29.78	756.4	29.88	759.0	59.4	15.2	56	calm	.....	.....	0	.....	10	.....	.....	0	0	.....	Rieder.
Vienna	28.97	735.7	29.07	753.6	57.6	14.2	51	wsw.	.....	.....	2	.....	10	.....	.....	0	0	.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.18	741.2	29.28	743 7	40.0	4.4	81	ene.	40	17.9	.....	.....	10	.....	.....	0.250	6.3	raining	W. Boswell.
Armagh, Observatory	28.91	734.3	29.15	740 4	49.1	9.5	57	ne.	10	4.5	.....	.....	10	.....	.....	.....	.....	gloomy	S. Oall.
Bidston, Liverpool Obs'y	.....	.....	29.09	738.9	49.9	9.9	86	wsw.	28	12.5	.....	.....	9	.....	.....	.....	.....	overcast	John Hartnup.
Bolton, Sharples	28.56	725.4	29.08	738.6	50.5	10.3	82	wsw.	36	16.1	.....	.....	10	.....	.....	.....	.....	overcast	Thomas Mackereth.[A.S.
Bradford, Yorkshire	28.68	728.5	29.07	738 4	51.1	10.6	91	sw.	.....	.....	1	.....	10	.....	.....	0.44	11.2	raining	J.McLandsborough, F. R
Bridgetown, Barbadoes	30.00	762.0	30.03	762.7	82.0	27.8	70	ne.	.....	.....	2	.....	6	.....	.....	.....	.....	gloomy	Corpl.J.Surgenor, A. H.C.
Cardington	.....	.....	29.23	742.4	59.0	15.0	59	w.	.....	.....	4.0	.....	4	.....	.....	.....	.....	d. clouds	John McLaren.
Chatham, School M. E.	29.19	741.4	29.32	744.7	54.7	12.6	73	se.	.....	.....	2	.....	4	.....	.....	blank	blank	d. clouds	Lance Opl. G.A. Pickles.
Falmouth, Observatory	29.10	739.1	29.32	744.7	54.0	12.2	68	sw.	.....	.....	5	.....	7	.....	.....	.....	.....	overcast	The Staff.
Fort Napier, Natal	27.69	703.3	29.91	759.7	75.2	24.0	44	so.	.....	.....	1	.....	3	.....	.....	.....	.....	blue sky	Pvt. E. K.Annis, A. H.C.
Free Town, Sierra Leone	29.58	751.3	29.81	757.2	88.0	31.1	69	w.	.....	.....	1	.....	5	.....	.....	.....	.....	d. clouds	Sergt. John Robinson.
Gibraltar, Mediterranean	29.91	759.7	29.96	761.0	65.5	18.6	78	w.	.....	.....	4	.....	7	.....	.....	.....	.....	gloomy	Opl. O. Baldwin.
Glasgow, Observatory	28.96	735.6	29.16	740.7	41.2	5.1	81	ene.	.....	.....	3	.....	10 n	.....	.....	.....	.....	raining	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.13	739.9	29.30	744.2	58.0	14.4	68	sw.	.....	.....	.....	.....	7	.....	.....	.....	.....	drizzling	The Staff.
Guernsey	29.12	739.6	29.41	747.0	55.6	13.1	73	sw.	.....	.....	3	.....	1	.....	.....	.....	.....	blue sky	A. Collenette, F. M. S.
Kew, Observatory	29.26	743.2	29.30	744.2	56.0	13.3	58	sw.	29	13.0	.....	.....	7	.....	.....	.....	.....	d. clouds	The Staff.
Leicester, Museum	28.98	736.1	29.23	742.4	56.5	13.6	55	w.	.....	.....	5	.....	4	.....	.....	.....	.....	d. clouds	J. O. Smith.
Malta, Mediterranean	29.95	760.7	30.02	762.5	62.0	16.7	52	se.	.....	.....	2	.....	1	.....	.....	.....	.....	blue sky	I. H. Whysall.
Nassau, Bahamas	29.96	761.0	30.00	762.0	80.8	27.1	80	sw.	.....	.....	1	.....	5	.....	.....	.....	.....	d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	28.66	728.0	29.17	740.9	52.5	11.4	69	sw.	.....	.....	4-5	.....	6	.....	.....	.....	.....	showery	John Mac Email.
Oxford, Radcliffe Obs'y	29.04	737.6	29.27	743.4	52.9	11.6	70	sw.	.....	.....	6	.....	5	.....	.....	.....	.....	squally	The Staff.
Plymouth	29.25	742.9	29.32	744.7	55.8	13.2	70	sw.	.....	.....	4	.....	4	.....	.....	.....	.....	d. clouds	John Merrifield.
Sandwick Manse, Orkneys	.....	.....	29.49	749.0	39	3.9	59	ene.	34	15.2	.....	.....	8	.....	.....	.....	.....	d. clouds	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.84	757.9	29.90	759.4	55.6	13.1	43	ne.	.....	.....	1	.....	0	.....	.....	.....	.....	blue sky	W. H. Lyne.
Sheffield	28.87	733.3	29.14	740.1	53.6	12.0	75	sw.	.....	.....	4	.....	10	.....	.....	0.05	1.3	overcast	W. F. Cooper.
Silloth Rectory	29.00	736.6	29.03	737.3	48.0	8.9	99	e.	.....	.....	1	.....	10	.....	.....	0.400	10.2	raining	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	29.10	739.1	47.1	8.4	92	wsw.	26	11.6	.....	.....	10	.....	.....	.....	.....	raining	Rev. S. J. Perry.
Strasfield Turgiss	29.09	738.9	29.30	744.2	57.1	13.9	59	sw.	.....	.....	4	.....	4	.....	.....	.....	.....	squally	Rev.C.H.Griffiths,F.M.S.
Truro, Royal Institution	29.29	744 0	29.32	744.7	58	14.4	69	sw.	.....	.....	6	.....	5	.....	.....	.....	.....	d. clouds	W. Newcombe.
Valencia, Observatory	28.98	736.1	29.00	736.6	49.7	9.8	91	ssw.	47	21.0	.....	.....	10	.....	.....	.....	.....	raining	The Met'g'l Office.
Canadian.																			
Bathurst, N. B	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.59	751.6	29.63	752.6	35	1.7	73	nw.	10	4.5	.....	.....	10 s	.....	nw.	inap.	inap.	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	29.64	752.8	29.71	754.6	33	0.6	71	nw.	12	5.4	.....	8 k	2 ks	nw.	nw.	0.06	1.5	fair	G. A. Blair.
Father Point, Quebec*	29.75	755.6	29.77	756.1	32	0.0	96	nw.	16	7.2	.....	.....	10 s	.....	n.	0.13	3.3	cloudy	J. McWilliams.
Fort Garry, Manitoba*	29.53	750.0	30.42	772.7	20	— 6.7	96	calm	0	0	.....	0	2 ks	.....	nw.	0	0	fair	James Stewart.
Halifax, N. S*	29.56	750.8	29.69	754.1	37	2.8	69	nw.	6	2.7	.....	0	0	.....	.....	0	0	clear	A. Allison.
Kingston, Ontario*	29.67	753.6	30.02	762.5	31	— 0.6	74	n.	6	2.7	.....	.....	10 ks	.....	w.	0	0	cloudy	A. P. Knight, M. A.
Montreal, Quebec*	29.72	754.9	29.94	760.5	32	0.0	74	w.	12	5.4	.....	.....	10 s	.....	.....	0	0	cloudy	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.35	745.5	30.08	764.0	28	— 2.2	88	n.	11	4.9	.....	.....	10 n	.....	nw.	0	0	cloudy	Rev. R. Mosley.
Port Dover, Ontario	29.35	745.5	30.07	763.8	33	0.6	89	calm	0	0	.....	.....	10 ks	.....	calm	0	0	cloudy	H. Morgan.
Port Stanley, Ontario	29.40	746.7	30.07	763.8	34	1.1	78	nw.	3	1.3	.....	.....	1c n	.....	nw.	0	0	cloudy	M. Payne.
Quebec, Quebec*	29.52	749.8	29.85	758.2	33	0.6	85	nw.	.....	.....	3	3 k	2 s	nw.	n.	0	0	fair	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.57	751.1	30.05	763.3	27	— 2.8	77	nw.	6	2.7	.....	.....	10 s	.....	nw.	0	0	cloudy	W. H. McIntyre.
Saugeen, Ontario*	29.34	745.2	30.09	764.3	31	— 0.6	71	ne.	4	1.8	.....	5 k	0	.....	.....	0	0	fair	
St. Andrews, N .B	29.69	754.1	29.75	755.6	35	1.7	67	nw.	6	2.7	.....	0	0	.....	.....	0	0	clear	
Sydney, C. B*	29.52	749.8	29.58	751.3	35	1.7	64	w.	16	7.2	.....	0	0	.....	.....	0	0	clear	T. C. Hill, C. E.
Toronto, Ontario*	29.66	753.4	30.06	763.5	33	0.6	74	n.	10	4.5	.....	.....	10 ks	.....	nw.	0	0	cloudy	Magnetic Observatory.
Yarmouth, N. S*	29.71	754.6	29.78	756.4	36	2.2	79	nw.	10	4.5	.....	0	0	.....	.....	0	0	clear	Lt. F. E. Wilmot, R. N.
Sub-series.																			
St. Johns, Newfoundland	29.68	753.9	29.94	760.5	36	2.2	100	w.	2	0.9	.....	0	0	.....	.....	0.25	6.3	fair	John Delany.
Cape Colony.																			
Cape St.Francis Lt.House	30.12	765.0	30.15	765.8	70.0	21.1	69	sw.	14.0	6.3	.....	0	2 s	.....	.....	0.080	2.0	hazy	John Duthie.
Cape Town, C. G. H. Obs'y	30.05	763.3	30.09	764.3	71.3	21.8	61	sse.	10	4.5	.....	10	10	.....	.....	0	0	.....	The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
CHINESE (*Sub-series*).																			
Hankow	30.13	765.3	30.41	772.4	58.7	14.8	69	wsw.			2		0			0	0		N. Titoushkin.
Zi-Ka-Wei, near Shanghai	30.23	767.9	30.26	768.5	46.4	8.0	66	nne.	5.6	2.5			0			0	0	clear	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	29.47	748.6	29.52	749.8	34.3	1.3	91	se.	29	13			10					snowing	Oversergent Fischer.
Fanöe	29.29	743.9	29.31	744.4	41.9	5.5	100	sse.			6		10					raining	Overloerer Lauridsen.
Godthaab, Greenland	29.63	752.7	29.68	753.8	23.5	— 4.7	79	ene.			4		2						S. Kleinschmidt.
Stykkisholm, Iceland	30.06	763.5	30.10	764.6	27.9	— 2.3	96	ne.			6		8						A. O. Thorlacius.
Thorshavn	29.74	755.4	29.78	756.3	37.4	3.0	69	ne.	18	8			7						Overloerer Bergh.
Vestervig	29.28	743.7	29.37	746.0	34.0	1.1	94	e.			6		10					snowing	Loerarer Oesterbol.
FRENCH.																			
Agen, Normal School	28.98	736.1	29.67	753.7	52.9	11.6	93	sw.			1		8			0.524	13.3	raining	M. Labroue, Director.
Alençon, Normal School	28.97	735.9	29.52	749.9	57.2	14	78	s.			2		n	s.	s.	0.39	10.		M. Nicot, Director.
Arras, Engineer School	29.27	743.5	29.52	749.8	55.0	12.8	64	w.			4		k;n						Capt. Bertrand, Dir.
Avignon, Normal School	29.59	751.5	29.67	753.5	63.3	17.4	65	se.			3		10			0	0	covered	M. Giraud, Director.
Bar-sur-Seine	29.06	738.0	29.64	752.9	57.9	14.4	58	ssw.			1		10		wnw.	0.079	2.0	covered	M. Saillard, Director.
Beauvais, Normal School	29.24	742.8	29.50	749.3	58.8	14.9	56	sw.			3		8		wsw.	0.453	11.5	very cloudy	M. Frère Eugène Mari.
Besançon, Normal School	28.68	728.5	29.56	750.9	60.4	15.8	38	w.			3		10		ssw.	0	0	covered	M. Gobin, Director.
Bordeaux, Observatory	29.38	746.2	29.63	752.7	57.7	14.3	67	s.			1		10			0.193	4.9	sprinkling	M. Rayet, Director.
Bourges, Normal School	29.09	738.8	29.63	752.7	59.0	15	58	sw.			1					0.12	3.		M. Postel, Director.
Brest, Naval Observatory	29.23	742.4	30.47	748.6	57.9	14.4	71	sw.			3		6		sw.	0.059	1.5		M. de Kermarec, Dir.
Caen, Normal School	29.38	746.2	29.45	748.0	61.2	16.2	41	sw.			1		5		sw.	0.087	2.2	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.21	742.0	29.52	749.9	58.3	14.6	57	ne.			2		10			0.280	7.1	covered	M. Jadot, Director.
Charleville, Normal School																			M. Grimard, Director.
Clermont-Ferrand Obs'y	28.30	718.9	29.64	752.9	54.3	12.4	76	sse.			1		10			0.063	1.6	covered	M. Alluard, Director.
Cluny, Normal School	28.83	732.2	29.67	753.6	57.2	14	73	s.			2			sw.		0.051	1.3		M. de Villemontée, Dir.
Commercy, Normal School	28.75	730.2	29.60	751.9	57.6	14.2	67	sw.			3		5 kn	sw.	sw.	0.181	4.6	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.18	690.4	29.65	753.1	59.9	15.5	45	w.			4		3		e.	0	0		M. Jeangirard, Director.
Gréasque, du. Rhone	28.56	725.5	29.65	753.2	65.7	18.7	59	se.			4		7		se.	0	0		M. Klna, Director.
Grenoble, Normal School	28.97	735.7	29.73	755.1	53.8	12.1	83	e.			1		10			0.244	6.2	covered	M. Ablard, Director.
Guéret, Normal School	28.09	713.4	29.67	753.5	54.5	12.5	59	s.			4		10 n			0.010	0.4	covered	M. Rivoire, Director.
Lamballe, Normal School	29.22	742.2	29.49	749.0	58.1	14.5	54	ne.			2		5		ne.	0.177	4.5	cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.09	738.8	29.64	752.9	62.6	17	70	ese.			1	0	5 kn			0.150	3.8	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	29.41	747.0	29.51	749.6	56.8	13.8	95	sw.			3		8		sw.	0.039	1.0	¼ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.65	727.6	29.70	754.3	51.6	10.9	96	se.			1		10			0.228	5.8	light rain	M. André, Director.
Mans, Normal School	29.24	742.6	29.54	750.3	57.4	14.1	97	sw.			3		5		sw.	0.441	11.2	cloudy	M. Piboen, Director.
Marseille, Observatory	29.41	746.9	29.67	753.6	64.4	18.0	63	ese.			3.4		7		se; w.	0	0		M. Stephan, Director.
Montlouis l'Instituteur	24.50	622.4	29.35	745.4	43.5	6.4	74	w.	18.6	8.3			8	w.					M. Cave, for Dr. Fines.
Montpellier, Normal School	29.49	749.0	29.61	752.2	60.1	15.6	91	e.			3		5		se.	0	0	cloudy	M. Galzin, Director.
Nancy, Normal School	28.71	729.1	29.47	748.4	62.2	16.8	53	nw.			1	0	5 kn		nw.	0	0	cloudy	M. Hasse, Director
Nantes, Observatory	29.41	747.1	29.58	751.2	60.1	15.6	58	sw.			2-3	0	7k;kn		sw.	0	0		M. Larocque, Director.
Perpignan, Observatory	29.51	749.5	29.62	752.3	58.5	14.7	78	ne.	7.4	3.3			1c		ne.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	20.88	530.2			24.3	— 4.3		sw.			1		10		sw.	0.228	5.8	snowy	Gen'l de Nansouty, Dir.
Privas, Normal School	28.63	727.2	29.69	754.2	50.4	10.2	72	s.			1		10		n.	0.185	4.7	raining	M. Tallieu.
Puy de Dôme Obs'y, Summit	24.81	630.2			35.2	1.8	100	wsw.			2		10			0.134	3.4	foggy	M. Alluard, Director.
Rochefort, Naval Obs'y	29.63	752.5	29.66	753.3	59.4	15.2	98	sw.			2		2			0.114	2.9	¼ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.35	745.5	29.56	750.9	58.3	14.6	61	wsw.			4		5	sw.	sw.	0.075	1.9	raining	M. Mouillot, Director.
Rodez, Normal School	27.72	704.2	29.87	758.8	48.7	9.3	97	calm			0		10			0.335	8.5	raining	M. Serger, Director.
Rouen, Normal School	29.43	747.4	29.47	748.6	60.4	15.8	55	w.			2		0			0.265	5.2	clear	M. Brotier.
Saint Maur, Observatory	29.38	746.2	29.54	750.4	59.2	15.1	52	w.			2		6		sw.	0.331	8.4		M. Renou, Director.
Toulouse, Observatory	29.02	737.0	29.73	755.1	51.1	10.6	97	sw.			1		10		w.	0.563	14.3	raining	M. Bailland, Director.
Versailles, Observatory	29.04	737.6	29.53	750.1	58.3	14.6	45	w.			3					0.303	7.7		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.24	742.8	29.54	750.2	61.0	16.1	49	sw.			2		6		wsw.	0.276	7.0		M. Marié Davy, Director
GERMAN.																			
Bamberg	28.74	730.1	29.59	751.5	57.7	14.3	50	w.			3	0	6 k		wsw.	0.157	4.0		Prof. Dr. Hoh.
Berlin	29.25	743.0	29.43	747.4	55.9	13.3	72	se.			1		8			0.154	3.9		Prof. Dr. Arndt.
Breslau	29.04	737.5	29.56	750.8	53.4	11.9	78	ssw.			2		8			0.008	0.2		Royal University Obs'y.
Carlsruhe	29.15	740.4	29.58	751.2	60.6	15.9	44	sw.			5		3	sw.		0	0		Albert Senz.
Cassel	28.74	730.1	29.46	748.3	59.5	15.3	51	s.			5		6	s.		0.063	1.6		Dr. H. Möhl.
Frankfort on the Main	29.17	741.0	29.53	750.0	59.2	15.1	63	wsw.			2		7			0.283	7.2		Physical Society.
Friedrichshafen	28.20	717.7	29.66	753.4	58.1	14.5	58	w.			1		8	wnw.		0	0		Wilhelm, Chief Tel.
Hamburg	29.31	744.4	29.40	746.8	55.0	12.8	69	wsw.			5		5			0.260	6.6		E. Preller.
Kiel	29.36	745.7	29.37	746.1	48.7	9.3	86	se.			2		7			0.130	3.3		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.08	738.5	29.48	748.9	60.4	15.8	51	sw.			3		6	sw.		0.189	4.8		H. Leppig, Asst.
Magdeburg	29.25	743.0	29.43	747.6	57.4	14.1	66	sw.			4	0	6 ks,s		sw.	0.012	0.3		Dr. Assmann.
Memel	29.71	754.7	29.76	755.9	38.3	3.5	57	w.			2	0	2 ks						Issermann.
Munich	27.85	707.3	29.69	754.0	59.2	15.1	42	nw.			3		5	sw.		0.079	2.0		Central Station.
Neufahrwasser	29.63	752.5	29.64	752.9	41.7	5.4	57	ese.			2		6			0.004	0.1		A. Lothes.
Neustadt, Palatinate	29.02	737.1	29.54	750.3	60.8	16.0	48	s.			2		8	ssw.		0.138	3.5		Dicknether.
Stuttgart	28.66	727.9	29.52	749.8	62.6	17.0	38	w.			4		8	w.		0.075	1.9		Prof. Dr. Schoder.
Wustrow	29.46	748.2	29.48	748.9	39.6	4.2	96	se.			3		10			0.118	3.0		Profs. Brandes & Reimer.
GREEK.																			
Athens	29.60	751.8	29.99	761.8	61.3	16.3		w.			1.0	1				0	0		Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.84	757.8	29.88	759.0	96.6	35.9	30	wsw.	20.0	8.9			6	sw.		0	0	misty	
Deesa	29.32	744.7	29.78	756.3	102.0	38.9	19	wnw.	9.7	4.3			3			0	0	d. clouds	
Bombay	29.72	754.8	29.75	755.7	86.9	30.5	61	nw.	17.0	7.6			0			0	0	blue sky	
Poona, Yarrowda	27.91	709.0	29.70	754.3	97.8	36.6	6	n.	10.0	4.5			2	sw.		0	0	d. clouds	
Belgaum	27.25	692.1	29.72	755.0	87.4	30.8	49	wsw.	8.0	3.6			6	nw.		0	0	d. clouds	
Lahore	29.07	738.3	29.80	756.8	90.7	32.6	21	nw.	1.9	0.8			6			0	0	misty	
Roorkee	28.85	732.7	29.72	754.9	91.8	33.2	17	nw.	1.7	0.8			4			0	0	blue sky	
Agra	29.22	742.1	29.76	756.0	95.1	35.1	10	w.	4.9	2.2			0			0	0		
Nagpur	28.73	729.7	29.74	755.4	91.7	34.8	22	nw.	4.8	2.2			2	w.		0.04	1.0	d. clouds	
Jubbulpore	28.46	722.8	29.79	756.7	88.8	31.6	29	calm	4.0	1.8			1			0.50	12.7	blue sky	
Lucknow	29.37	746.1	29.74	755.4	96.0	35.6	19	wnw.	6.7	3.0			0			0	0	blue sky	
Allahabad	29.44	747.7	29.74	755.4	94.7	34.8	17	nw.	5.0	2.2			0			0	0	blue sky	
Patna	29.59	751.5	29.77	756.1	92.4	33.6	10	nw.	4.2	1.9			6	nw.	nw.	0	0	d. clouds	
Hazaribagh	27.81	706.3	29.79	756.6	85.8	29.9	21	nw.	6.6	3.0			0			0	0	blue sky	
Cuttack	29.67	753.6	29.75	755.7	95.1	35.1	44	sw.	0.5	0.2			5			0	0	d. clouds	
Calcutta, Alipore	29.73	755.1	29.75	755.5	89.6	32.0	31	nw.	0.5	0.2			9	w.		0	0	d. clouds	
Dhubri	29.61	752.2	29.73	755.1	86.3	30.2	51	calm	3.6	1.6			2	sw.		0	0	d. clouds	
Chittagong	29.67	753.6	29.76	755.9	86.7	30.4	50	nne.	1.4	0.6			3			0	0	blue sky	
Sibsagar	29.46	748.4	29.80	756.9	81.2	27.3	77	ne.	2.6	1.2			0			0	0	blue sky	
Jeypore	28.39	721.0	29.80	756.8	93.1	33.9	13	n.	4.2	1.9			2		n.	0	0	d. clouds	
Zanzibar, Africa	29.83	757.7			85.9	29.9	69	s.	5.0	2.2			4		sse.	0.52	13.2	d. clouds	
Bellary	28.30	718.8			93.6	34.2	21	se.	6.5	2.9		4 ck	6			0	0	gloomy	
Trichinopoly	29.55	750.6			81.4	27.4	74	s.	2	0.9			10			0	0	overcast	
ITALIAN.																			
Udine	29.48	748.8	29.89	759.2	52.5	11.4	73	s.		0.7	0.3			1c		0	0		Prof. Giovanni Clodig.
Milan	29.34	745.1	29.81	757.2	50.2	10.1	87	se.		3.8	1.7			10	e.	0.213	5.4		Prof. Schiaparelli.
Padua	29.75	755.6	29.86	758.4	53.2	11.8	62	nne.		8.1	3.6			10	nw.	0	0		Prof. Dott. Lorenzoni.
Moncalieri	28.91	734.2	29.80	757.0	52.5	11.4	65	nw.		3.1	1.4			10		0.106	2.7		Prof. P. F. Denza.
Genoa	29.64	752.8	29.83	757.6	57.9	14.4	79	se.		14.3	6.4			10	se.	0	0		Prof. G. M. Garibaldi.
Mondovi	27.88	708.1	29.79	756.7	48.9	9.4	83	nne.				2		9		0	0		Prof. D. O. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
ITALIAN.—Continued.																			
Pesaro	29.81	757.1	29.85	758.3	59.4	15.2	58	e.	13.6	6.1	.....	.....	10	wnw.	.....	0	0	.....	Prof. Luigi Guidi.
Florence	29.60	751.9	29.85	758.3	64.4	18.0	43	s.	.....	.....	2	.....	10	sw.	.....	0	0	.....	Prof. Costantino Pitter.
Leghorn	29.72	755.0	29.81	757.2	63.1	17.3	50	s.	4.3	1.9	.....	.....	10	s.	.....	0	0	.....	Prof. P. Monte.
Rome	29.75	755.7	29.93	760.1	65.1	18.4	28	s.	17.4	7.8	.....	.....	5	.....	.....	0	0	.....	Prof. P. S. Ferrari.
Lecce	29.74	755.5	30.00	761.9	64.4	18.0	38	wnw.	6.3	2.8	.....	.....	3	.....	.....	0	0	.....	Prof. C. de Giorgi.
Cosenza	29.10	739.1	29.98	761.6	64.4	18.0	75	sse.	3.1	1.4	.....	.....	4	se.	.....	0	0	.....	Prof. D. Conti.
Cagliari	29.59	751.6	29.78	756.5	64.9	18.3	68	se.	.....	.....	4	.....	2	.....	.....	0	0	.....	Prof. A. Pacinotti.
Palermo	29.71	754.7	29.96	761.0	66.2	19.0	46	ne	6.3	2.8	.....	.....	5	.....	.....	0	0	.....	Prof. G. Cincciatore.
Syracuse	29.97	761.3	30.02	762.4	64.4	18.0	65	wnw.	9.4	4.2	.....	.....	4	wnw.	.....	0	0	.....	Prof. Vincenzo Guiliano.
Sub-series.																			
Naples, S. R	29.46	748.3	29.98	761.6	59.2	15.1	59	se.	0	0	.....	.....	2	ne.	.....	0	0	.....	Prof. T. Brioschi.
Stelvio	21.88	555.7	.....	.....	27.1	— 2.7	98	sw.	.....	.....	3	.....	10	.....	.....	0.311	7.9	covered	Prof. P. F. Denza.
Valdobbia	21.92	556.8	.....	.....	31.6	— 0.2	74	e.	.....	.....	2	.....	10	.....	.....	0	0	covered	Prof. P. F. Denza.
JAPANESE.																			
Aomori	29.85	758.2	29.89	759.2	41.8	5.4	81	w.	12.3	5.5	.....	.....	10 ks	.....	.....	0.042	1.1	.....	K. Ogawa.
Hakodate	29.83	757.7	29.84	757.9	41.8	5.4	76	n.	15.0	6.7	.....	.....	10	.....	.....	0	0	covered	
Hiroshima, I. M. Obs'y	29.97	761.2	29.98	761.5	47.8	8.8	77	ne.	4.9	2.2	.....	0	0	.....	.....	0	0	clear	K. Sasaki.
Kanazawa	29.87	758.7	29.98	761.5	44.9	7.2	87	nne.	2.5	1.1	.....	ck	10ks;s	.....	.....	0.035	0.9	overcast	S. Endo.
Kioto	29.75	755.6	29.92	759.9	47.9	8.8	81	nw.	4.5	2.0	.....	ck	4 s	.....	.....	0	0	fair	M. Tojima.
Kochi	29.89	759.2	29.91	759 7	55.6	13.1	73	n.	17.2	7.7	.....	1 ck	0	.....	.....	0	0	clear	
Nagasaki, I. M. Obs'y	29.82	757.4	30.04	763.0	48.8	9.3	76	n.	4.2	1.9	.....	0	0	.....	.....	0	0	clear	S. Takehayashi.
Nilgata	29.91	759.7	29.95	760.7	45.1	7.3	79	n.	7.9	3.5	.....	10 ck	0	.....	.....	0.060	1.5	covered	
Nobiru	29.81	757.2	29.83	757.7	45.7	7.6	81	nnw.	28.2	12.6	.....	.....	10 n	.....	.....	0.115	2.9	stormy	H. Midzushina.
Sapporo	.....	.....	.....	.....	37.4	3.0	88	nw.	9.0	4.0	.....	.....	2	.....	.....	0.415	10.5	clear	
Tokei Obs'y, Yeddo	29.76	755.9	29.83	757.7	49.9	9.9	100	nne.	2.5	1.1	.....	.....	10 n	.....	.....	0.778	19.8	raining	The Staff.
Wakayama	29.88	758.9	29.93	760.2	55.1	12.8	68	ne.	9.1	4.1	.....	ck	7 ks	.....	nne.	0	0	fair	Y. Kuwamura.
MAURITIUS.																			
Mauritius Observatory	29.79	756.7	29.98	761.5	79.0	26.1	65	ese.	20.0	8.9	.....	1 cs	1 k	.....	e.	0	0	clear	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.64	600 4	29.86	758.4	58.8	14.9	68	ssw.	.....	.....	.....	0	6 pk	.....	w.	0	0	fair	Vicente Fernandez.
Leon	24.33	618.0	30.01	762.2	57.7	14.3	70	nw.	.....	.....	1	7 cs	0	sw.	.....	0	0	.....	Prof. M. Leal.
Mazatlan	29.63	752.6	29.89	759.2	64.5	18.1	76	nw.	5.3	2.3	.....	3 cs	0	sw.	.....	0	0	foggy	F. Quijano, U. E.
Mexico, Central Obs'y	23.02	684.6	30.07	763.7	53.6	12.0	60	nw.	0.8	0.3	.....	2 ck	1 s	.....	.....	0	0	fine	The Staff.
Morelia	24.13	613.0	30.22	767 6	59.7	15.4	81	s.	.....	.....	2	1	2	e.	e.	0	0	clear	M. Tena, M. D.
Pabellon, Aguascalientes	23.86	606.1	29.87	758.8	55.8	13.2	56	calm	.....	.....	0	0	9 k	.....	sw.	0	0	cloudy	M. V.de Leon, M. E.
Puebla, Catholic Institute	23.38	593.9	30.10	764.6	53.6	12.0	70	ne.	1.8	0.8	.....	0	0	.....	.....	0	0	clear	Prof. P. Spina.
San Luis Potosi	24.06	611.2	30.14	765.6	66.0	18.9	58	s.	.....	.....	1	.....	10	.....	w.	0	0	covered	G. Barroeta, M. D.
Zacatecas	22.45	570.2	30.05	763.1	50.0	10.0	48	sw.	11.4	5.1	.....	8 c	0	w.	.....	0	0	cloudy	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.40	746.8	29.40	746.8	55.4	13.3	.....	sw.	.....	.....	5	.....	.....	.....	.....	0.492	12.5	.....	
Groningen	29.29	744.0	29.35	745.4	54.0	12.2	.....	sw.	.....	.....	6	.....	.....	.....	.....	0.287	7.3	.....	
Helder	29.30	744.2	29.30	744.2	52.2	11.2	.....	ssw.	.....	.....	5	.....	.....	.....	.....	0	0	.....	
Hellevoetsluis	29.37	746.0	29.37	746.0	54.7	12.6	67	wsw.	.....	.....	4	.....	.....	.....	.....	0.366	9.3	.....	
Utrecht	29.35	745.5	29.40	746.7	57.7	14.3	58	sw.	.....	.....	5	.....	5	.....	.....	0.043	1.1	cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.43	747.6	29.50	749.2	39.2	4.0	35	nw.	9	4	.....	.....	2	.....	.....	0	0	.....	
Brono	29.52	749.7	29.56	750.7	30.6	— 0.8	62	calm	0	0	.....	.....	8	.....	.....	0.016	0.4	.....	
Christiania	29.43	747.5	29.58	751.3	39.4	4.1	49	se.	7	3	.....	.....	3	.....	.....	0	0	.....	
Gjæsvær	29.14	740.1	29.16	740.7	25.2	— 3.8	.....	nw.	.....	.....	7	.....	10	.....	.....	.....	.....	.....	
Lodingen	29.45	747.9	29.49	749.1	27.0	— 2.8	50	wnw.	.....	.....	1	.....	7	.....	.....	.....	.....	.....	
PORTUGUESE.																			
Angra, Azores	.....	.....	.....	.....	60.8	16.0	66	wnw.	13.0	5.8	.....	.....	3	.....	.....	0	0	.....	Dr. J. A. Sampaio.
Campo, Major	28.80	731.6	29.79	756.7	60.1	15.6	59	wsw.	9.4	4.2	.....	.....	9	.....	.....	0.496	12.6	.....	Dr. A. M. R. dos Santos.
Funchal, Maderia	30.04	763.1	30.13	765.3	64.8	18.2	68	sso.	.....	.....	.....	.....	4	.....	.....	0	0	.....	Capt. D. A. de Cunha.
Lisbon, Observatory	29.50	749.2	29.85	758.3	58.5	14.7	72	sw.	26.2	11.7	.....	.....	7	.....	.....	0.496	12.6	.....	The Staff.
Ponta Delgada, Azores	29.73	755.2	29.80	757.0	64.8	18.2	55	nw.	7.4	3.3	.....	.....	4	.....	.....	0	0	.....	
Saint Paul de Loando	29.67	753.7	29.87	758.8	79.7	26.5	85	wsw.	1.8	0.8	.....	.....	6	s.	.....	0	0	.....	
Serra da Estrella	24.95	633.6	29.77	756.1	34.3	1.3	100	w.	24.8	11.1	.....	.....	10	.....	.....	0.961	24.4	rain & fog	
RUSSIAN.																			
Akmolinski	28.30	718.7	29.39	746.5	32.2	0.1	94	wnw.	16	7	.....	.....	10 n	.....	.....	0	0	.....	Major K. Lasarew.
Archangel	29.47	748.6	29.49	749.1	21.9	— 5.6	77	w.	9	4	.....	.....	10	.....	.....	0	0	light clouds	Capt. Sselliwerstow.
Astrakhan	30.04	763.1	29.96	761.0	52.2	11.2	39	w.	2	1	.....	.....	10 s	.....	.....	0	0	.....	Capt. Wisganow.
Barnaul	28.89	733.9	29.38	746.3	49.8	9.9	74	ssw.	9	4	.....	.....	10	.....	.....	0.122	3.1	.....	Meteorological Obs'y.
Dorpat	29.39	746.4	29.64	752.8	32.7	0.4	87	wnw.	7	3	.....	.....	10 n	.....	.....	0.039	1.0	light snow	Observatory.
Ekaterinburg	28.68	728.5	29.65	753.2	40.1	4.5	30	wsw.	7	3	.....	.....	0	.....	.....	0	0	.....	Meteorological Obs'y.
Kasan	29.26	743.2	29.54	750.2	37.4	3.0	64	sso.	13	6	.....	.....	10	.....	.....	0	0	light clouds	Observatory.
Kertch	29.82	757.4	29.84	757.9	48.7	9.3	70	sso.	9	4	.....	0	3 ks	.....	.....	0	0	.....	Lagorio & Sastyrez.
Kieff	29.12	739.6	29.77	756.2	37.4	3.0	85	n.	4	2	.....	.....	10ks;n	.....	.....	0.118	3.0	raining	Observatory.
Lugan	29.54	750.2	29.74	755.3	56.8	13.8	21	ssw.	22	10	.....	.....	8	.....	.....	0	0	light clouds	Meteorological Obs'y
Moscow	28.92	734.5	29.41	747.0	30.9	— 0.6	61	n.	7.8	3.5	.....	.....	10 s	.....	.....	0.008	0.2	light snow	Meteorological Obs'y.
Nikolaiev	29.74	755.5	29.82	757.3	53.2	11.8	45	s.	31	14	.....	.....	10 n	.....	.....	0	0	light clouds	Capt. Kurdakow.
Nikolaievsk, on the Amoor	30.05	763.2	30.13	765.4	22.6	— 5.2	80	calm	0	0	.....	.....	0	.....	.....	0	0	.....	Lieut. Iwanow.
Pekin, China	30.03	762.7	30.17	766.3	58.5	14.7	28	sw.	7	3	.....	0	0	.....	.....	0	0	.....	Physical Observatory
St. Petersburg	29.51	749.5	29.52	749.9	33.8	1.0	62	nw.	11	5	.....	.....	10 n	.....	.....	0	0	.....	Central Physical Obs'y
Ssemipalatinsk	28 85	732.9	29.49	749.1	57.2	14.0	50	sw.	20	9	.....	0	1 k	.....	.....	0	0	.....	Major Lasaren.
Tashkend, Laboratory	28.35	720.2	29.93	760.1	54.7	12.6	95	calm	0	0	.....	.....	10	.....	.....	0.646	16.4	.....	Teich, A. M.
Tiflis	28.55	725.2	29.97	761.3	54.1	12.3	55	se.	9	4	.....	0	8 n	.....	.....	.....	.....	light rain	Physical Observatory
Vladivostok	29.97	761.3	30.04	763.0	44.2	6.8	53	nw.	4	2	.....	0	0	.....	.....	0	0	.....	
Warsaw	29.21	742.0	29.64	752.9	42.8	6.0	75	nne.	13	6	.....	.....	10 ks	.....	.....	.....	.....	.....	Astronomical Obs'y
Wilna	29.32	744.6	29.75	755.6	39.9	4.4	51	nnw.	7	3	.....	.....	4	.....	.....	0	0	.....	Berg, Assistant.
Yeniseisk	29.45	747.9	29.74	755.3	39.2	4.0	63	e.	4	2	.....	.....	10	.....	.....	0	0	.....	M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	29.54	750.3	29.69	754.0	64.0	17.8	74	s.	3.6	1.6	.....	1 c	0	.....	.....	0	0	clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	29.59	751.5	29.65	753.0	69.3	20.7	38	w.	16.8	7.5	.....	3	1	nw.	.....	0.016	0.4	cloudy	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	26.76	679.7	29.71	754.6	51.3	10.7	62	s.	13.0	5.8	.....	.....	8	.....	.....	0.059	1.5	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27.54	699.4	29.75	755.6	56.5	13.6	56	sw.	24.2	10.8	.....	0	4	.....	.....	0.122	3.1	cloudy	The Staff.
Murcia, Met. Obs'y	29.58	751.4	29.73	755.1	77.0	25.0	46	ese.	2.0	0.9	.....	3	3	ene.	.....	0.008	0.2	cloudy	Olayo Diaz, Director.
Santiago, Met. Obs'y	28.67	728.2	29.56	750.9	52.0	11.1	79	sw.	12.5	5.6	.....	.....	10	.....	.....	0.870	22.1	raining	R. Gil Vallanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I	29.86	758.4	29.92	760.0	76.2	24.6	85	sse.	3.1	1.4	.....	c	1 k	.....	.....	0	0	fair	Benito Vines, S. J.
Manilla, Philippine Islands	29.82	757.4	29.88	758.9	83.8	28.8	74	se.	3.1	1.4	.....	.....	9 n	.....	e.	0	0	threatening	F. Faura, S. J.
San Fernando, Naval Obs'y	29.84	757.8	29.94	760.3	61.0	16.1	96	w.	6.1	2.7	.....	.....	10	.....	wsw.	1.229	31.2	.....	Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	29.95	760.6	30.04	762.9	76.3	24.6	87	calm	0	0	.....	0	2 k	.....	se.	0	0	clear	Manuel Maeu.
Tuguegarao, Philippine Id's	29.80	756.9	29.93	760.2	74.9	23.8	86	nnw.	3.8	1.7	.....	.....	10 ku	.....	nne.	0.01	0.3	covered	José L. Yrastorza.
SWEDISH																			
Haparanda	29.45	748.0	29.49	749.0	27.7	— 2.4	75	s.	.....	.....	2	.....	5	.....	.....	0	0	.....	
Umea	29.48	748.9	29.54	750.2	36.0	2.2	61	nw.	.....	.....	2	.....	7	.....	.....	0	0	.....	
Hernosand	29.51	749.5	29.56	750.8	35.8	2.1	34	nw.	.....	.....	4	.....	8	.....	.....	0	0	.....	
Stockholm	29.46	748.3	29.64	752.8	38.1	3.4	40	wnw.	.....	.....	4	.....	1	.....	.....	0	0	.....	
Wisby	29.64	752.9	29.70	754.4	36.7	2.6	58	wnw.	.....	.....	2	.....	5	.....	.....	0	0	.....	
Sub-series.																			
Upsala	29.54	750.2	29.62	752.4	37.0	2.8	48	e.	2.7	1.2	.....	.....	8	.....	w.	0	0	.....	S. G. Fineman.
SWISS.																			
Geneva	28.29	718.6	29.73	755.1	50.7	10.4	90	nw.	.....	.....	1	.....	.....	.....	.....	0.575	14.6	raining	The Observatory

STATIONS.	BAROMETER. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	WIND. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	CLOUDS. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
TURKISH.																			
Constantinople	.....	.....	29.95	760.8	51.8	11.0	77	s.	6	2.5	.....	.....	1	.....	ne.	0	0	.....	The Observatory.
Valona	.....	.....	30.02	762.6	59.2	15.1	.....	sw.	.....	.....	1	.....	5	.....	.....	0	0	cloudy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	29.76	755.8	55.2	12.9	87	ssw.	.....	.....	5	.....	10 n	.....	sw.	0.15	3.8	.....	Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	29.89	759.2	29.97	761.2	46	7.8	76	nw.	1	0.4	.....	.....	10 s	.....	nw.	0	0	cloudy.....	J. O. Barnes.
Alpena, Michigan	29.46	748.3	30.15	765.8	32	0.0	68	ne.	4	1.8	.....	9 k	0	n.	.....	0	0	cloudy.....	Jas. J. Fitzgerald.
Atlanta, Georgia	28.82	732.0	30.01	762.2	52.0	11.1	86	nw.	1	0.4	.....	.....	10 s	.....	calm	0	0	cloudy.....	H. Hall.
Atlantic City, New Jersey	30.02	762.5	30.03	762.7	40	4.4	73	w.	4	1.8	.....	2 c	0	w.	.....	0	0	clear.....	Jas. M. Watson.
Augusta, Georgia	29.83	757.7	30.02	762.5	56	13.3	86	se.	2	0.9	.....	9 k	0	.....	.....	0	0	cloudy.....	John Healy.
Baltimore, Maryland	30.04	763.0	30.10	764.5	43	6.1	60	n.	4	1.8	.....	9 ck	0	w.	.....	0	0	cloudy	Robert Seyboth.
Barnegat, New Jersey	30.01	762.2	30.03	762.7	44.0	6.7	56	w.	8	3.6	.....	2 cs	0	.....	.....	0	0	clear.....	Chas. F. Merritt.
Bismarck, Dakota	28.55	725.2	30.42	772.7	30	— 1.1	88	n.	4	1.8	.....	.....	10 s	.....	n.	inap.	inap.	cloudy	Cyrus Cramer.
Boise City, Idaho	27.35	694.7	30.19	766.8	35	1.7	82	e.	4	1.8	.....	0	0	.....	.....	0	0	clear	B. E. Light.
Boston, Massachusetts	29.78	756.4	29.94	760.5	40.0	4.4	57	nw.	8	3.6	.....	.....	10 s	.....	.....	0	0	cloudy.....	O. B. Cole.
Brownsville, Texas	30.10	764.5	30.16	766.1	52	11.1	87	n.	14	6.3	.....	.....	10 s	.....	n.	inap.	inap.	cloudy.....	J. C. Galloway.
Buffalo, New York	29.28	743.7	30.05	763.3	35.4	1.9	77	w.	4	1.8	.....	.....	10s;ks	.....	w.	0	0	cloudy	Wm. Finn.
Burlington, Vermont	29.66	753.4	29.96	761.0	32.5	0.3	61	w.	5	2.2	.....	.....	10 s	.....	.w.	inap.	inap.	cloudy.....	G. C. Schaeffer.
Cairo, Illinois	29.77	756.1	30.18	766.6	40.8	4.9	87	n.	14	6.3	.....	10 ck	0	w.	.....	0	0	cloudy	W. H. Ray.
Campo, California	27.46	697.5	30.04	763.0	33.6	0.9	88	ne.	4	1.8	.....	0	0	.....	.....	0	0	clear.....	W. H. Clendenon.
Camp Thomas, Arizona	27.27	692.6	30.00	762.0	46	7.8	63	se.	.....	.....	2	0	2 ks	.....	.....	0	0	clear.....	J. T. Fitzgerald.
Cape Henry, Virginia	30.04	763.0	30.06	763.5	50	10.0	77	ne.	8	3.6	.....	3 ck	hz.	sw.	.....	0	0	clear.....	J. E. Lanouette.
Cape May, New Jersey	30.04	763.0	30.07	763.8	44	6.7	65	n.	3	1.3	.....	0	0	.....	.....	0	0	clear.....	W. Bolten.
Cedar Keys, Florida	29.96	761.0	29.98	761.5	64	17.8	90	ne.	7	3.1	.....	.....	10 ks	.....	ne.	0.17	4.3	cloudy	F. W. Mixer.
Champaign, Illinois	29.33	745 0	30.17	766.3	37.2	2.9	75	ne.	4	1.8	.....	.....	10 s	.....	ne.	0	0	cloudy	L. A. Welsh.
Charleston, S. Carolina	29.97	761.2	30.03	762.7	54.5	12.5	86	n.	6	2.7	.....	0	0	.....	.....	0	0	clear.....	J. H. Smith.
Charlotte, N. Carolina	29.13	739.9	29.99	761.7	52.0	11.1	80	se.	2	0.9	.....	.....	10 s	.....	e.	0	0	cloudy	D. O. Donoghue.
Chattanooga, Tennessee	29.21	741.9	30.04	763.0	51.0	10.6	80	ne.	4	1.8	.....	1 cs	fg.	calm	.....	inap.	inap.	clear.....	B. L. Goulding.
Cheyenne, Wyoming	24.16	613.7	30.16	766.1	18.2	— 7.7	73	e.	1	0.4	.....	.....	10 s	.....	.....	0	0	cloudy	E. McGovern.
Chicago, Illinois	29.44	747.8	30.18	766.6	38.1	3.4	73	n.	4	1.8	.....	7 k	0	ne.	.....	inap.	inap.	fair.....	J. Mitchell.
Chincoteague, Virginia	30.03	762.7	30.05	763.3	46.7	8.2	63	ne.	9	4.0	.....	2 c	6 s	.....	w.	0	0	cloudy	V. P. Temple.
Cincinnati, Ohio	29.46	748.3	30.13	765.3	41.5	5.3	69	nw.	3	1.3	.....	9 k	0	nw.	.....	0	0	cloudy.....	R. B. Watkins.
Cleveland, Ohio	29.33	745.0	30.09	764.3	37.5	3.1	77	w.	1	0.4	.....	.....	10 s	.....	.....	0	0	cloudy	J. B. Newlin.
Coleman City, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	L. Dorman.
Columbus, Ohio	29.22	742.2	30.09	764.3	37	2.8	82	n.	2	0.9	.....	.....	10 ks	.....	nw.	0	0	cloudy	D. Cuthbertson.
Concho, Texas	28.31	719.1	30.25	768.3	38	3.3	82	n.	10	4.5	.....	.....	10 s	.....	ne.	0	0	cloudy	W. W. McConihe.
Davenport, Iowa	29.50	749.3	30.17	766.3	40	4.4	73	n.	8	3.6	.....	4 ck	hz.	nw.	calm	0	0	fair	R. R. Martin.
Dayton, Washington T'y	28.35	720.1	30.10	764.5	38.8	3.8	80	ne.	6	2.7	.....	0	0	.....	.....	0	0	clear.....	H. Clifford.
Deadwood, Dakota	25.58	649.7	30.26	768.6	16	— 8.9	87	calm	0	0	.....	0	0	.....	.....	0.01	0.3	clear.....	G. W. Scott.
Decatur, Texas	.....	.....	.....	.....	42	5.6	65	n.	12	5.4	.....	.....	10 s	.....	n.	0	0	cloudy	D. J. Carr.
Delaware Breakwater, Del.	30.04	763.0	30.06	763.5	43	6.1	68	ne.	8	3.6	.....	4 ck	0	w.	.....	0	0	fair.....	A. Schneider.
Denison, Texas	29.38	746.2	30.18	766.6	43.0	6.1	83	n.	6	2.7	.....	.....	10 n	.....	.....	0.07	1.8	light rain,...	J. McGlone.
Denver, Colorado	24.91	632.7	30.18	766.6	23.0	— 5.0	70	se.	4	1.8	.....	.....	10 s	.....	s.	0.07	1.8	cloudy	F. M. Neal.
Des Moines, Iowa	29.31	744.5	30.24	768.1	38	3.3	72	n.	6	2.7	.....	3 ck	6 s	n.	n.	0	0	cloudy.... ...	F. W. Conrad.
Detroit, Michigan	29.37	746.0	30.10	764.5	42.9	6.1	74	nw.	3	1.3	.....	.....	10 s	.....	nw.	0	0	cloudy.....	C. F. R. Wappenhans.
Dodge City, Kansas	27.65	702.3	30.29	769.4	31	— 0.6	81	n.	17	7.6	.....	.....	10 s	.....	.....	0	0	cloudy.....	E. A. Thomas.
Dubuque, Iowa	29.47	748.5	30.20	767.1	34.5	1.4	61	n.	8	3.6	.....	8 k	1 s	ne.	n.	0	0	cloudy.....	J. Harvey Smith.
Duluth, Minnesota	29.60	751.8	30.32	770.1	32	0.0	60	calm	0	0	.....	0	0	.....	.....	0	0	clear.....	N. B. Conger.
Eagle Pass, Texas	29.44	747.8	30.25	768.3	46.0	7.8	60	nw.	11	4.9	.....	.....	10 s	.....	n.	0	0	cloudy.....	F. Belford.
Eagle Rock, Idaho	25.40	645.1	30.12	765.0	30	— 1.1	80	n.	3	1.3	.....	0	0	.....	.....	0	0	clear.....	J. M. Clifford.
Eastport, Maine	29.70	754.4	29.77	756.1	37.5	3.1	49	nw.	11	4.9	.....	0	0	.....	.....	0	0	clear.....	J. H. Melton.
El Paso, Texas	26.39	670.3	30.13	765.3	35	1.7	66	e.	10	4.5	.....	.....	10 ks	.....	e.	0	0	cloudy.....	J. F. Marshall.
Erie, Pennsylvania	29.35	745.5	30.10	764.5	37	2.8	82	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy.....	R. H. Paxton.
Escanaba, Michigan	29.52	749.8	30.21	767.3	30	— 1.1	77	n.	9	4.0	.....	3 c	0	nw.	.....	0	0	clear.....	C. Dill.
Florence, Arizona	28.46	722 9	29.96	761.0	50.2	10.1	59	ne.	5	2.2	.....	0	0	.....	.....	inap.	inap.	clear.....	R. R. Herman.
Fort Apache, Arizona	25.04	636.0	29.96	761.0	27	— 2.8	88	e.	3	1.3	.....	0	0	.....	.....	0.49	12.4	clear.....	W. O. Barnes.
Fort Assinnaboine, Montana	27.34	694.4	30.24	768.1	25	— 3.9	64	sw.	4	1.8	.....	0	0	.....	.....	0	0	clear.....	B. O. Lenoir.
Fort Bennett, Dakota	28.77	730.7	30.41	772.4	34	1.1	72	ne.	4	1.8	.....	10 ck	0	ne.	.....	0	0	cloudy.....	T. Gibson.
Fort Benton, Montana	27.35	694.7	30.21	767.3	26	— 3.3	67	calm	0	0	.....	0	0	.....	.....	0	0	clear	S. Wheaton.
Fort Buford, Dakota	28.39	721.1	30.46	773.7	32	0.0	88	e.	1	0.4	.....	.....	10 s	.....	calm	0	0	cloudy.....	A. H. Bell.
Fort Custer, Montana	27.03	686.5	30.21	767.3	30	— 1.1	81	se.	4	1.8	.....	0	2 s	.....	calm	0	0	clear.....	V. Verge.
Fort Davis, Texas	25.20	640.1	29.99	761.7	27	— 2.8	100	n.	8	3.6	.....	.....	10 n	.....	n.	0.03	0.8	light snow,.	J. Williams.
Fort Elliott, Texas	27.43	696.7	30.21	767.3	30	— 1.1	52	ne.	12	5.4	.....	.....	10 s	.....	ne.	inap.	inap.	cloudy.....	W. J. Cundall.
Fort Gibson, Indian T'y	29.64	752.8	30.22	767.6	44.5	6.9	83	n.	7	3.1	.....	.....	10 s	.....	n.	0	0	cloudy	J. B. Campbell.
Fort Grant, Arizona	25.22	640.6	29.95	760.7	35	1.7	44	e.	2	0.9	.....	3 c	0	.....	.....	inap.	inap.	clear.....	T. J. Macgowan.
Fort Griffin, Texas	28.96	735.6	30.26	768.6	41	5.0	73	n.	9	4.0	.....	.....	10 s	.....	n.	0	0	cloudy..... ...	G. H. Hayne.
Fort Keogh, Montana	27.73	704.3	30.27	768.8	33	0.6	71	se.	20	8.9	.....	10 cs	0	s.	.....	0.01	0.3	cloudy	W. B. Stockman.
Fort Macon, North Carolina	30.01	762.2	30.02	762.5	53	11.7	66	ne.	12	5.4	.....	6 c	0	sw.	.....	0	0	fair.....	L. Leonardy.
Fort McKavett, Texas	27.81	706.4	30.07	763.8	40	4.4	73	n.	11	4.9	.....	.....	10 s	.....	.....	0	0	cloudy.....	J. E. Thatcher.
Fort Missoula, Montana	26.87	682.5	30.18	766.6	30	— 1.1	88	sw.	1	0.4	.....	0	0	.....	.....	0	0	clear.....	J. H. Jones.
Fort St. Michaels, Alaska	30.14	765.5	30.18	766.6	4	—15.6	100	nw.	3	1.3	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	A. P. Leavitt.
Fort Shaw, Montana	26.49	672.8	30.16	766.1	25	— 3.9	88	w.	2	0.9	.....	0	0	.....	.....	0	0	clear.....	A. L. Mathews.
Fort Sill, Indian Territory	29.00	736.6	30.24	768.1	39.5	4.2	77	n.	10	4.5	.....	5 c	4 s	w.	.....	0.01	0.3	cloudy.....	T. Cleary.
Fort Stevenson, Dakota	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. Burrows
Fort Verde, Arizona	.....	.....	.....	.....	35.2	1.8	72	w	.....	.....	1	0	0	.....	.....	0	0	clear.....	D. Brooks.
Fort Washakie, Wyoming	24.60	624.8	.....	.....	23.1	— 4.9	73	calm	0	0	.....	0	0	.....	.....	inap.	inap.	clear.....	T. M. Ambler.
Fredericksburg, Texas	28.38	720.8	30.10	764.5	41	5.0	93	ne.	11	4.9	.....	.....	10 s	.....	.....	0.01	0.3	cloudy.....	H. S. Miles.
Galveston, Texas	30.01	762.2	30.05	763.3	54	12.2	93	n.	24	10.7	.....	.....	10 n	.....	n.	0.07	1.8	light rain....	E. O'C. MacInernev.
Grand Haven, Michigan	29.47	748.5	30.16	766.1	34.0	1.1	72	nw.	6	2.7	.....	0	0	.....	.....	0	0	clear.....	W. A. Reid.
Hatteras, North Carolina	30.00	762.0	30.02	762.5	51	10.6	67	ne.	16	7.2	.....	hz.	3 k	ne.	.....	0	0	clear.....	R. M. Crawford.
Helena, Montana	25.91	658.1	30.17	766.3	32	0.0	62	W.	3	1.3	.....	0	0	.....	.....	0	0	clear.....	N. C. Smith.
Henrietta, Texas	29.27	743.4	30.30	769.6	40.0	4.4	89	nw.	8	3.6	.....	.....	10 s	.....	.....	0.09	2.3	cloudy.....	J. W. Byram.
Huron, Dakota	28.94	735.1	30.39	771.9	28	— 2.2	70	nw.	10	4.5	.....	0	0	.....	.....	0	0	clear.....	S. W. Glenn.
Indianapolis, Indiana	29.32	744.7	30.14	765.5	37	2.8	61	n.	5	2.2	.....	0	hz.	.....	calm	0	0	clear.....	O. Schutze
Indianola, Texas	30.04	763.0	30.08	764.0	50.4	10.2	86	n.	39	17.4	.....	6 ck	4 ks	sw.	n.	0.01	0.3	cloudy	I. A. Reed.
Jacksboro, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. P. Sherry.
Jacksonville, Florida	29.96	761.0	30.00	762.0	60	15.6	87	n.	5	2.2	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	J. W. Smith.
Keokuk, Iowa	29.49	749.0	30.16	766.1	40.0	4.4	73	nw.	10	4.5	.....	0	1 s	.....	.....	0	0	clear.....	F. Z. Gosewisch
Key West, Florida	29.92	760.0	29.94	760.5	77.0	25.0	84	sw.	1	0.4	.....	0	5 ks	.....	sw.	0	0	fair.....	L. M. Melbourne.
Kittyhawk, North Carolina	30.05	763.3	30.07	763.8	47	8.3	89	ne.	5	2.2	.....	1 cs;hz.	0	.....	.....	inap.	inap.	clear.....	E. A. Beals.
Knoxville, Tennessee	29.01	736.8	30.05	763.3	47	8.3	77	n.	3	1.3	.....	.....	10 s	.....	.....	0.09	2.3	cloudy.....	J. A. Cody.
La Crosse, Wisconsin	29.44	747.8	30.24	768.1	34	1.1	52	n.	5	2.2	.....	0	0	.....	.....	0	0	clear.....	S. C. Emery.
La Mesilla, New Mexico	26.21	665.7	30.09	764.3	36.5	2.5	50	se.	4	1.8	.....	.....	10 s	.....	.....	0.01	0.3	cloudy.....	N. D. Lane.
Leavenworth, Kansas	29.35	745.5	30.26	768.6	42	5.6	82	nw.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	A. W. Browne.
Lewiston, Idaho	29.24	742.7	30.09	764.3	40	4.4	59	se.	1	0.4	.....	0	0	.....	.....	0	0	clear.....	W. Blake.
Little Rock, Arkansas	29.80	756.9	30.12	765.0	47	8.3	68	ne.	5	2.2	.....	0	5 s	.....	calm	0	0	fair	W. U. Simmons.
Los Angeles, California	29.66	753.4	30.06	763.5	48.4	9.1	86	e.	5	2.2	.....	0	0	.....	.....	0	0	clear.....	E. F. Kubel.
Louisville, Kentucky	29.54	750.3	30.11	764.8	41	5.0	65	n.	6	2.7	.....	.....	9 s	.....	.....	0	0	cloudy.....	H. C. Smyth.
Lynchburg, Virginia	29.36	745.7	30.07	763.8	47.0	8.3	52	ne.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy.....	W. R. Bushby.
Madison, Wisconsin	29.16	740.7	30.20	767.1	34	1.1	78	e.	4	1.8	.....	.....	10 s	.....	ne.	0	0	cloudy.....	C. A. Shaw.
Marquette, Michigan	29.51	749.5	30.26	768.6	33	0.6	60	ne.	10	4.5	.....	0	0	.....	.....	inap.	inap.	clear.....	J. Gilligan.
Mason, Texas	28.54	724.9	30.19	766.8	39.8	4.3	82	n.	14	6.3	.....	.....	10 s	.....	n.	0.01	0.3	cloudy	P. M. Wilson.
Memphis, Tennessee	29.78	756.4	30.12	765.0	47	8.3	68	n.	8	3.6	.....	5 cs	0	.....	.....	inap.	inap.	fair.....	D. T. Flannery.
Milwaukee, Wisconsin	29.42	747.3	30.19	766.8	33	0.6	78	nw.	7	3.1	.....	1 c	6 s	nw.	nw.	0	0	fair.....	W. Line.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–01	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers
UNITED STATES.—Cont'd.																			
Mobile, Alabama	29.96	761.0	30.00	762.0	61	16.1	86	ne.	2	0.9	.....	.....	10 s	.....	e.	0	0	cloudy	J. D. Paxton.
Montgomery, Alabama	29.75	755.6	29.98	761.5	57.7	14.3	94	ne.	3	1.3	.....	.....	10s;fg	.....	.....	0.17	4.3	cloudy	J. B. McLaughlin.
Moorhead, Minnesota	29.33	745.0	30.36	771.1	31.2	— 0.4	88	n.	4	1.8	.....	0	0	.....	.....	0	0	clear	H. Bessant.
Morgantown, W. Virginia	29.06	738.1	30.10	764.5	38.0	3.3	82	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	G. C. Lewis.
Mt. Washington, N. H.	23.41	594.6	29.82	757.4	10.5	—11.9	94	nw.	44	19.7	.....	.....	fg.	.....	nw.	0.28	7.1	dense fog	J. G. Linsley.
Nashville, Tennessee	29.53	750.0	30.07	763.8	47.0	8.3	66	n.	4	1.8	.....	10 cs	0	w.	.....	0.14	3.6	cloudy	L. A. Jesunofsky.
New Haven, Connecticut	29.87	758.7	29.99	761.7	40	4.4	57	w.	5	2.2	.....	0	9 s	.....	w.	0	0	cloudy	J. H. Sherman.
New London, Connecticut	29.93	760.2	29.98	761.5	42	5.6	73	nw.	4	1.8	.....	.....	10 s	.....	nw.	0	0	cloudy	J. G. Lynch.
New Orleans, Louisiana	29.86	758.4	29.92	760.0	63.5	17.5	80	ne.	12	5.4	.....	.....	10 s	.....	.....	0	0	cloudy	S. Dunne.
Newport, Rhode Island	29.90	759.4	29.95	760.7	41.0	5.0	62	w.	13	5.8	.....	.....	10 s	.....	w.	0	0	cloudy	W. McGillivray.
New River, N. Carolina	.....	.....	.....	.....	52	11.1	52	ne.	.....	.....	1	3 ck	4 s	w.	.....	0	0	fair	C. C. Corbin.
New Shoreham, Rhode I'd	29.93	760.2	29.96	761.0	44.0	6.7	68	nw.	10	4.5	.....	7 k	0	nw.	.....	0	0	fair	W. Davis.
New York, New York	29.84	757.9	30.02	762.5	42.5	5.8	64	w.	6	2.7	.....	5 cs	0	w.	.....	0	0	fair	E. B. Garriott.
Norfolk, Virginia	30.02	762 5	30.05	763.3	52	11.1	72	ne.	5	2.2	.....	0	9 ks	.....	nw.	0	0	cloudy	E. F. Brady.
North Platte, Nebraska	27.37	695.2	30.33	770.4	32.6	0.4	78	nw.	6	2.7	.....	.....	10 s	.....	.....	0	0	cloudy	J. Dascomb.
Olympia, Washington T'y	30.05	763.3	30.09	764.3	44.0	6.7	93	n.	1	0.4	.....	0	9 s	.....	calm	0	0	cloudy	A. Pollak.
Omaha, Nebraska	29.10	739.1	30.31	769.9	39.0	3.9	73	nw.	9	4.0	.....	.....	10 s	.....	n.	0.03	0.8	cloudy	P. H. Ray.
Ooglaamie, Pt. Barrow, Alas.	30.00	762.0	30.02	762.5	35.8	2.1	63	wnw.	10	4.5	.....	.....	10 s	.....	.....	0.05	1.3	cloudy	S. W. Beall.
Oswego, New York	29.68	753.9	30.02	762.5	35.8	2.1	63	ne.	6	2.7	.....	9 cs	0	nw.	.....	0	0	cloudy	S. W. Beall.
Palestine, Texas	29.60	751.8	30.16	766.1	45.0	7.2	83	n.	8	3.6	.....	5 ck	0	w.	.....	0.04	1.0	fair	L. M. Pindell.
Pensacola, Florida	29.96	761.0	29.99	761.7	63.0	17.2	84	e.	8	3.6	.....	.....	10 s	.....	e.	0	0	cloudy	M. McGauran.
Philadelphia, Pa	29.96	761.0	30.06	763.5	42	5.6	57	nw.	8	3.6	.....	8 ck	0	w.	.....	0	0	cloudy	T. F. Townsend.
Pike's Peak, Colorado	17.53	445.3	29.81	757.2	— 2.5	—19 2	89	nw.	6	2.7	.....	0	6 s	.....	nw.	0	0	fair	L. M. Dey.
Pioche, Nevada	24.13	612.9	30.12	765 0	32	0.0	60	n.	5	2.2	.....	0	0	.....	.....	0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.27	743.4	30.10	764.5	35.0	1.7	72	nw.	2	0.9	.....	.....	10 ks	.....	nw.	0	0	cloudy	J. H. Bryce.
Port Eads, Louisiana	29.87	758.7	29.88	758.9	69.1	20.6	92	e.	28	12.5	.....	.....	10 ks	.....	e.	0.06	1.5	cloudy	H. G. Christian.
Port Huron, Michigan	29.39	746.5	30.09	764.3	34.2	1.2	78	n.	6	2.7	.....	.....	10 s	.....	.....	0	0	cloudy	W. O. Bailey.
Portland, Maine	29.82	757.4	29.87	758.7	42.0	5.6	50	nw.	5	2.2	.....	.....	10 s	.....	nw.	0	0	cloudy	D. C. Murphy.
Portland, Oregon	30.06	763.5	30.13	765.3	41.0	5.0	82	e.	4	1.8	.....	0	5 s	.....	se.	0	0	fair	M. L. Hearne.
Portsmouth, N. Carolina	.....	.....	.....	.....	51	10.6	66	ne.	11	4.9	.....	6 k	0	ne.	.....	0	0	fair	F. P. Chaffee.
Prescott, Arizona	24.73	628.1	29.95	760.7	28	— 2.2	61	s.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. McN. Wright.
Provincetown, Mass	29.88	758.9	29.91	759.7	41	5.0	73	nw.	5	2.2	.....	.....	10 s	.....	nw.	0	0	cloudy	P. T. Jenkins.
Punta Rassa, Florida	29.90	759.4	29.91	759.7	69	20.6	87	ne.	10	4.5	.....	5 ck	0	sw.	.....	0.23	5.8	fair	W. J. Evans.
Red Bluff, California	29.69	754.1	30.06	763.5	51.9	11.1	72	n.	4	1.8	.....	0	1 s	.....	.....	0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.97	761.2	30.21	767.3	54	12.2	61	n.	12	5.4	.....	.....	10 s	.....	n.	0	0	cloudy	W. H. Taylor.
Rochester, New York	29.34	745.2	30.03	762.7	35	1.7	79	nw.	6	2.7	.....	9 cs	0	nw.	.....	0	0	cloudy	A. T. Sherwood.
Roseburg, Oregon	29.63	752.6	30.19	766.8	44.5	6.9	87	calm	0	0	.....	2 c	0	w.	.....	0	0	clear	J. J. Naury.
Sacramento, California	29.98	761.5	30.06	763.5	51.4	10.8	86	se.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.58	751.3	30.20	767.1	41.1	5.1	82	n.	4	1.8	.....	.....	10 s	.....	n.	0	0	cloudy	J. H. Webber.
St. Paul, Minnesota	29.39	746.5	30.28	769.1	35.0	1.7	82	calm	0	0	.....	0	0	.....	.....	0	0	clear	P. F. Lyons.
St. Vincent, Minnesota	29.48	748.8	30.39	771.9	16	— 8.9	83	nw.	6	2.7	.....	2 ck	0	nw.	.....	0	0	clear	G. Kingsbury.
Salt Lake City, Utah	25.72	653.3	30.09	764.3	39	3.9	52	calm	0	0	.....	6 k	0	n.	.....	0	0	fair	J. Craig.
San Antonio, Texas	29.40	746.7	30.10	764.5	45.6	7.6	77	n.	14	6.3	.....	0	8 ks	.....	n.	0	0	cloudy	E. Lane.
San Diego, California	29.95	760.7	30.02	762.5	48.3	9.1	88	ne.	5	2.2	.....	0	0	.....	.....	0	0	clear	A. C. Dobbins.
Sandusky, Ohio	29.37	746.0	30.07	763.8	41	5.0	73	n.	2	0.9	.....	.....	10 s	.....	.....	0	0	cloudy	M. H. Perry.
Sandy Hook, New Jersey	29.99	761.7	30.03	762.7	41.0	5.0	73	w.	11	4.9	.....	0	0	.....	.....	0	0	clear	B. A. Blundon.
San Francisco, California	30.03	762.7	30.10	764.5	49	9.4	93	sw.	12	5.4	.....	0	fg.	.....	sw.	0	0	clear	N. Goroni.
Santa Fé, New Mexico	23.25	590.5	30.01	762.2	23	— 5.0	84	se.	5	2.2	.....	.....	10 n	.....	.....	0.05	1.3	light snow	H. U. Jones.
Savannah, Georgia	29.95	760.7	30.04	763.0	54	12.2	77	n.	5	2.2	.....	8 cs	0	w.	.....	0	0	cloudy	H. W. Ford.
Shreveport, Louisiana	29.86	758.4	30.10	764.5	48	8.9	77	n.	8	3.6	.....	.....	10 s	.....	n.	inap.	inap.	cloudy	E. N. Meekins.
Silver City, New Mexico	24.26	616.2	29.94	760.5	30	— 1.1	80	s.	4	1.8	.....	6 cs	0	s.	.....	0.08	2.0	fair	J. B. Wallace.
Sitka, Alaska	29.34	745.2	29.40	746.7	43.2	6.2	56	e.	24	10.7	.....	.....	10 ks	.....	e.	0.01	0.3	cloudy	J. J. McLean.
Smithville, North Carolina	29.98	761.5	30.02	762.5	52	11.1	93	n.	5	2.2	.....	5 cs	0	n.	.....	0	0	fair	O. Parker.
Spokane Falls, Wash. Ter.	28.19	716.0	30.25	768.3	36.4	2.4	87	se.	1	0.4	.....	0	0	.....	.....	0	0	clear	D. Moore.
Springfield, Illinois	29.48	748.8	30.18	766.6	46	7.8	64	calm	0	0	.....	.....	10 s	.....	w.	0	0	cloudy	T. B. Jennings.
Springfield, Massachusetts	29.83	757.7	29.96	761.0	43.7	6.5	60	w.	4	1.8	.....	.....	10 s	.....	w.	0	0	cloudy	T. S. Outram.
Springfield, Mo	28.74	730 0	30.26	768.6	41	5.0	69	ne.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	J. B. Marbury.
Stockton, Texas	27.18	690.4	30.21	767.3	33.6	0.9	100	n.	4	1.8	.....	.....	10 n	.....	n.	0.05	1.3	light snow	J. O'Dowd.
Thatcher's Island, Mass	29.78	756.4	29.83	757.7	40.8	4.9	73	nw.	16	7.2	.....	5 k	0	nw.	.....	0	0	fair	G. Liebmann.
Toledo, Ohio	29.38	746.2	30.09	764.3	40	4.4	65	w.	4	1.8	.....	.....	10 s	.....	sw.	0	0	cloudy	A. Buell.
Tucson, Arizona	27.53	699.2	29.92	760.0	45	7.2	77	se.	3	1.3	.....	0	0	.....	.....	inap.	inap.	clear	J. L. Whiteside.
Umatilla, Oregon	29.78	756.4	30.14	765.5	41.3	5.2	81	se.	6	2.7	.....	3 cs	6 s	.....	w.	0	0	cloudy	J. Daly.
Uvalde, Texas	29.19	741.4	30.16	766.1	44	6.7	76	n.	3	1.3	.....	.....	10 s	.....	ne.	0	0	cloudy	E. C. Imlay.
Vicksburg, Mississippi	29.78	756.4	30.04	763.0	53	11.7	72	ne.	6	2.7	.....	.....	10 s	.....	calm	0.01	0.3	cloudy	T. J. Kenan.
Visalia, California	29.70	754.4	30.07	763.8	48.5	9.2	47	se.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. T. Cochran.
Washington, D. C.	29.99	761.7	30.11	764.8	40	4.4	89	nw.	1	0.4	.....	.....	10 s	.....	nw.	0	0	cloudy	B. M. Purssell.
West Las Animas, Colorado	26.29	667.8	30.25	768.3	22	— 5.6	67	nw.	1	0.4	.....	0	8 s	.....	n.	inap.	inap.	cloudy	J. Grover.
Wickenburg, Arizona	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.03	0.8	.....	H. A. Kremp.
Williamsport, Pa	29.42	747.3	30.04	763.0	39.5	4.2	69	w.	6	2.7	.....	.....	10 ks	.....	nw.	0	0	cloudy	B. F. Hough.
Wilmington, N. Carolina	29.98	761.5	30.04	763.0	52	11.1	72	ne.	4	1.8	.....	7 c	0	w.	.....	0	0	fair	E. W. McGann.
Winnemucca, Nevada	25.73	653.5	30.13	765.3	29	— 1.7	80	ne.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. R. Williams.
Yankton, Dakota	28.98	736.1	30.32	770.1	33	0.6	78	nw.	3	1.3	.....	0	0	.....	.....	0.01	0.3	clear	J. H. Atfield.
Yuma, Arizona	29.78	756.4	29.93	760.2	51.9	11.1	61	ne.	2	0.9	.....	0	0	.....	.....	0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.04	559.8	.....	.....	56.0	13.3	83	nw.	1.2	0.5	.....	.....	8 s	.....	w.	0.14	3.6	cloudy	Joaquin Gomez.
Bridgetown, Barbados, W.I.	30.00	762 0	30.01	762.2	81	27.2	91	s.	.....	.....	.....	5 k	5 ks	e.	e.	0	0	fair	J. A. Racker.
Buenaventura, U. S. C.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. I. Plume.
Guadeloupe, W. I.	29.93	760.2	29.95	760.7	80	26.7	87	e.	.....	.....	.....	0	4 ks	.....	.....	0	0	.....	B. Bigar.
Havana, Cuba, W. I.	29.92	760.0	29.98	761.5	79	26.1	82	se.	1.2	0.5	.....	0	2 ks	.....	calm	inap.	inap.	fair	A. Van Caneghem.
Kingston, Jamaica, W. I.	30.01	762.2	30.02	762.5	78.0	25.6	78	se.	2	0.9	.....	0	0	.....	.....	0	0	fine	Robert Johnston.
Navassa, W. I.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	F. M. Everett.
Paramaribo, S. A.	30.05	763.3	30.05	763.3	79	26.1	87	e.	.....	.....	2	3 c	4 k	e.	e.	0	0	.....	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.51	749.5	29.97	761.2	80	26.7	80	calm	.....	.....	0	.....	9 ks	.....	calm	0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	.....	.....	98	nw.	.....	.....	1	.....	9 ks	.....	nw.	0	0	cloudy	Earl Flint.
Santiago de Cuba, W. I.	30.00	762.0	30.03	762.7	75	23.9	81	calm	0	0	.....	0	2 ks	.....	.....	0.10	2.5	fair	Robert Mason.
York Factory, B. A.	30.05	763.3	30.10	764.5	— 6.0	—21.1	81	n.	12	5.4	.....	1 c	1 s	n.	n.	0	0	fair	W. Wood.

STATIONS AND VESSELS.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.			Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Amount and kind.		Direction.						
								Force.	Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
British Naval.																		
H. M. S. Agincourt, N. 49° 36′, W. 4° 35′	29.35	745.5	59	15.0	81	sw.			4		3	sw.				4	nw.	showery.
H. M. S. Alert, Mahe, Seychelles Islands	29.81	757.2	81.5	27.5	89	sw.			2–4		9							showery.
H. M. S. Alexandra, Malta Mediterranean	30.09	764.3	63	17.2	61	sse.			3		2	se.						d. clouds.
H. M. S. Bacchante, N. 32° 43′, E. 34° 48′	29.72	754.9	62	16.7	77	ssw.			5–6		4	n.				3	wsw.	d. clouds.
H. M. S. Cleopatra, N. 7° 40′, E. 73° 48′	29.78	756.4	82.5	28.1	87	e.			1		1	ne.						blue sky.
H. M. S. Comus, Pelew Island, Oceania	29.82	757.4	80	26.7	95	ene.			1–2		3	ne.						d. clouds.
H. M. S. Diamond, S. 34° 48′, E. 138° 26′	30.11	764.8	64	17.8	89	calm			0		3							showery.
H. M. S. Dido, N. 17° 00′, W. 61° 45′	30.09	764.3	79	26.1		se.			3		2	ne.						d. clouds.
H. M. S. Druid, N. 19° 34′, W. 74° 12′	30.01	762.2	79	26.1	86	s.			2		3	n.				1	n.	d clouds.
H. M. S. Dryad, N. 24° 10′, E. 60° 15′	29.83	757.7				s.			1		5	sw.				1	s.	d. clouds.
H. M. S. Eclipse, S 12° 28′, E. 43° 40′			81	27.2	100	se.			2		3					3	sse.	d. clouds.
H. M. S. Fawn, N. 15° 32′ E. 41° 51′	29.77	756.1	80.5	26.9	78	nw.			3		5					1	nw.	d. clouds.
H. M. S. Gannet, S. 30° 50′, W. 73° 00′	29.97	761.2	59	15.0	79	se.			4–5		4					3	ssw.	misty.
H. M. S. Garnet, Montevideo, Uruguay	30.10	766.1	55	12.8	80	nw.			2		0							blue sky.
H. M. S. Inconstant, S. 34° 20′, E. 26° 15′	30.09	764.3	70	21.1	100	sw.			3–4		6	se.				6	sw.	d. clouds.
H. M. S. Iron Duke, N. 22° 16′ E. 114° 10′	30.06	763.5	66	18.9	94	e.			1		7	e.						d. clouds.
H. M. S. Lark, S. 10° 27′, E. 162° 04′	29.87	758.7	81.3	27.4		ssw.			1		2					1	e.	d. clouds.
H. M. S. Liffey, Coquimbo, Chili	30.06	763.5	58	14.4		se.			1		8							d. clouds.
H. M. S. Magpie, N. 34° 07′, E. 138° 12′	29.77	756.1	57.7	14.3	75	nnw.			3		10					4	nw.	drizzling.
H. M. S. Malabar, N 18° 00′ E. 39° 57′	29.82	757.4	86	30.0	91	nnw.			3–4		4	nw.				3	nnw.	d. clouds.
H. M. S. Nelson, Sydney, N. S. W.	29.93	760.2	72	22.2	81	n.			1–2		1							blue sky.
H. M. S. Northampton, Bermuda, W. I.	29.79	756.7	67.2	19.6	98	wsw.			2		10							misty.
H. M. S. Orontes, N. 37° 09′, E. 5° 23′	29.83	757.7	68.5	20.3	76	w.			2		3					1	wsw.	d. clouds.
H. M. S. Pegasus, N. 9° 16′, E. 111° 43′	29.88	758.9	84	28.9	75	ene.			1–2		2					2	nw.	blue sky.
H. M. S. Rambler, St. Paul de Loando, Benguela	29.87	758.7	78	25.6	100	wsw.			3		5	wnw.						d. clouds.
H. M. S. Rocket, Esquimalt, Vancouver Id., B. C.	29.99	761.7	46	7.8		calm			0		10							raining.
H. M. S. Superb, N. 39° 38′, E. 19° 45′*	30.14	765.5	66	18.9	41	ene.			1		1	nne.						blue sky.
H. M. S. Tamar, N. 37° 33′ E. 6° 00′	29.91	759.7	71.5	21.9	58	ene.			3		5	wsw.				1	wsw.	d. clouds.
H. M. S. Triumph, S. 30° 52′ W. 72° 00′	29.97	761.2	61	16.1	77	sse.			3		3	se.				4	se.	misty.
H. M. S. Tyne, N. 7° 50′, E. 79° 04′	29.77	756.1	83	28.3	83	s.			2		9					2	s.	d. clouds.
Portuguese Naval.																		
Rio Lima, N. 11° 48′ W. 15° 41′	29.97	761.2	82.4	28.0	70	sw.			1		2							blue sky.
Tamega, Macao, China	30.15	765.7	68.9	20.5	86	se.			3		9		se.			2	se.	d. clouds.
United States Naval.																		
Navy Yard. Pensacola, Fla.	29.93	760.2	65	18.3	78	ene.	10	4.5			10		ene.	0.03	0.8			threatening.
N. Yard, Portsmouth, N. H.	29.90	759.4	38	3.3	63	nw.	23	10.3			2		nw.	0	0			clear.
Naval Hospital, Yokohama, Japan	29.61	752.1	51	10.6	93	ne.			1		10		n.	1.10	27.9			light rain.
Adams, N. 7° 35′ W. 82° 49′	29.71	754.6	81	27.2	91	sw.			1		5		sw.	sli't	sli't	sm'h		cloudy.
Alaska, S. 3° 07′, W. 79° 56′	29.90	759.4	79	26.1	?	calm			0		0			0	0	sm'h		clear.
Alert, Kobe Japan*	29.82	757.4	54	12.2	61	nnw.			2		5		calm	0	0	sm'h		fair.
Alliance, N. 21° 39′, W. 91° 15′	29.81	757.2	78	25.6	95	s.			3		8			h'vy	h'vy	sm'h		cloudy.
Ashuelot, Kobe, Japan	29.95	760.7	51	10.6	65	wsw.			2		5		w.					fair.
Brooklyn, Montevideo, Uruguay	30.17	766.3	58	14.4	82	wnw.	5	2.2			0			0	0	sm'h		clear.
Colorado, New York, N. Y.	30.00	762.0	43	6.1	59	nw.	12	5.4			8		nw.	0	0			hazy.
Enterprise, Kingston, Jamaica, W. I*	29.98	761.5	80	26.7	78	e.			3		2							clear.
Essex, S. 4° 20′, W. 17° 42′	29.90	759.4	79	26.1	86	se.			4		8		se.			mod.	se.	rainy.
Franklin, Norfolk, Va.	30.06	763.5	50	10.0	79	ene.	24	10.7			2		n.	0	0			fair.
Galena, Leghorn, Italy	29.86	758.4	60	15.6	88	se.			4		2					sm'h		clear.
Independence, Mare Island, Cal.	29.98	761.5	51	10.6	93	sw.			3		0			0	0			clear.
Kearsarge, Samana, Bay, Hayti, W. I.	30.06	763.5	78	25.6	82	ese.			2		0					sm'h		clear.
Lackawana, Callao, Peru*	29.87	758.7	63	17.2	89	se.			1		8		se.					cloudy.
Lancaster, Leghorn, Italy*	29.85	758.2	60	15.6	65	sse.			5		8		se.	0	0	mod.		fair
Marion, S. 28° 21′, E. 7° 24′	30.17	766.3	72	22.2	80	se.			2		8		sse.			long	se.	fair.
Michigan, Erie, Pa.	29.89	759.2	37	2.8	100	sw.			2		10		ne.					cloudy.
Minnesota, Newport, R. I.	29.73	755.1	42	5.6	74	w.	6	2.7			10							overcast.
Monocacy, Kobe, Japan	29.94	760.5	53	11.7	80	n.			2		5		calm					fair.
New Hampshire, Newport, R. I.	29.88	758.9	43	6.1	75	nw.			3		10			0	0	sm'h		overcast.
Nipsic, Marseilles, France	29.67	753.6	65	18.3	63	sse.			5		8					sm'h		d. clouds.
Onward, Callao, Peru†	30.06	763.5	62	16.7	94	calm			0		2		n.			long	w.	clear.
Palos, Kobe, Japan	29.93	760.2	50	10.0	72	nw.			2		8		calm					cloudy.
Passaic, Washington, D. C.	30.11	764.8	41	5.0	100	calm			0		5		calm					fair.
Pensacola, Callao, Peru	29.98	761.5	66	18.9	89	calm	0	0			2		se.	0	0	sm'h		clear.
Powhatan, Port Royal, S. C.	30.00	762.0	79	26.1	82	e.			2		2							fair.
Portsmouth, Newport, R. I.	29.91	759.7	40	4.4	100	nnw.			3		10					sm'h		cloudy.
Quinnebaug, Leghorn, Italy	29.86	758.4	61	16.1	71	s.			6		2		s.			rg'h	s.	squally.
Ranger, N. 17° 04′, W. 101° 04′	29.82	757.4	77	25.0	82	calm			0		8		calm	0	0	sm'h		cloudy.
Richmond, Kobe, Japan*	29.85	758.2	55	12.8	68	nnw.			1		1		nnw.	0.6	15.			clear.
Shenandoah, Aspinwall, Panama*	29.99	761.7	79	26.1	86	ene.			0–1		2		calm			sm'h		fair·
St. Louis, League Island, Pa.	30.28	769.1	45	7 2	61	w.	2	0.9			5		w.	0	0			fair.
Swatara, Kobe, Japan*	29.76	755.9	53	11.7	67	n.			1		5		n.			sm'h		fair.
Tennessee, Port Royal, S. C.	30.06	763.5	57	13.9	100	n.	4	1.8			8			0	0			fair.
Vandalia, Port Royal, S. C†	30.26	768.6	57	13.9	94	ne.			2		2		w.					fair.
Wabash, Boston, Mass.	29.89	759.2	44	6.7	68	nnw.	2	0.9			10		nw.	0	0			cloudy.
Wachusetts, Sitka, Alaska	29.35	745.5	40	4.4	90	nw.			1		10		calm					overcast.
Wyoming, Port Royal, S. C.	30.03	762.7	56	13.3	87	ne.	8	3.6			5		w.	0	0			fair.
Yantic, Port Royal S. C*	29.99	761.7	57	13.9	87	n.			2		5							fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
										Upper.	Lower.	Upper.	Lower.					
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S.S. Nova Scotian, N. 42° 49′ W. 67° 15′	29.79	756.7	37	2.8		wnw.			3		0					slight	w.	clear.
S. S. Polynesian, Liverpool, England*	29.98	761.5	59	15.0		wsw.			6		8		w.	12 h'r	12 h'r			cloudy.
S. S. Waldensian, N. 42° 19′, W. 67° 04′*	29.73	755.1	38	3.3		nw.			4		8		wnw.	0	0	light	nw.	fine.
AMERICAN STEAMSHIP COMPANY.																		
S. S. Illinois, N. 39° 41′, W. 63° 49′	29.76	755.9	50	10.0	93	nw.			6		5		w.			sm'h	w.	fair.
S. S. Indiana, N. 39° 48′, W. 56° 56′†	29.82	757.4	58	14.4	87	n.			6		2?		nw.	sh'rs	shr's	mod.	n.	cloudy?
S. S. Ohio, N. 47° 38′, W. 24° 30′†	29.84	757.9	55	12.8	93	nw.			5		8		n.			light	nw.	cloudy.
ANCHOR LINE.																		
S. S. Assyria, N. 44° 36′, W. 63° 30′*†	29.78	756.4	41	5.0		nw.			4		1		nw.	0	0	sm'h		clear.
S. S. Ethiopia, N. 54° 27′, W. 15° 14′	29.33	745.0	47	8.3	92	nne.			6		10		nne.	12 h'r	12 h'r	h'vy	nne.	heavy rain.
S. S. Galatia, London, Eng†	29.35	745.5				w.			7		8		wsw.	8 h'r	8 h'r			heavy rain.
S. S. India, N. 32° 41, E. 28° 45′*	29.84	757.9	58	14.4	76	nw.			4		2							fair.
ATLAS LINE.																		
S. S. Alvo, Savanilla, U. S. C.	29.80	756.9				ne.			8		4		ne.	0	0			fair.
S. S. Arden, N. 15° 56′ W 73° 30′						ene.			1		2		ne.					fine.
S. S. Athos, N. 22° 21′, W. 74° 24′	29.62	752.3				ene.			1		0			0	0			clear.
S. S. Claribel, N. 19° 37′, W 74° 36′*†	30.14	765.5	78	25.6	90	s.			1		5		sse.	0	0	light	sse.	fine.
BOSTON AND HALIFAX LINE.																		
S. S. Carroll, Boston, Mass†	29.80	756.9				nw.			2					0	0			fair.
BRITISH METEOROLOGICAL OFFICE.																		
Bk. Arran, S 28° 52′, W. 26° 07′	29.98	761.5	81.5	27.5	74	sse.			5		6							d. clouds.
S. Baroda, N. 5° 35′, E. 83° 17′	29.77	756.1	82.6	28.1	87	calm			0		9							overcast.
British Merchant, S. 7° 50′, E. 88° 35′	29.78	756.4	78.7	25.9	93	se.			2		10							raining.
Bk. Commewyne, N. 54° 00′, W. 14° 00′	29.17	740.9	51.4	10.8	72	n.			6		10							d. clouds.
S. S. Gordon Castle, N. 23° 15′ E. 117° 20′	30.08	764.0	64	17.8	62	ne.			6		3							d. clouds.
CROMWELL LINE.																		
S. S. Hudson, N. 24° 15′, W. 82° 35′†	29.96	761.0	76	24.4		calm			0		0			2 h'r	2 h'r	mod.	se.	clear.
CUNARD LINE.																		
S. S. Bothnia, N. 51° 16′, W. 10° 50′	29.18	741.2				sse.			5		2?		sw.	2 h'r	2 h'r	h'vy	sw.	cloudy.?
S. S. Parthia, N. 40° 46′, W. 62° 17′†	29.80	756.9				wnw.			4		3		wnw.	0	0	slight	wnw.	clear.
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. Canada, N. 49° 20′, W. 12° 35′	29.29	744.0	57.2	14.0		sw.			3		3		sw.	light	light		sw.	clear.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Gellert, N. 42° 34′, W. 45° 06′	29.82	757.4	67	19.4		sw.			4		10		sw.	rain	rain	sm'h	sw.	raining.
S. S. Lessing, N. 40° 26′, W. 70° 00′	29.96	761.0	45	7.2		nw.			3		10			rain	rain			cloudy.
S. S. Silesia, N. 41° 05′, W. 65° 30*†	29.90	759.4	37.8	3.2		w.			4–5		0			0	0	3	w.	fair.
INMAN LINE.																		
S. S. City of New York, N. 41° 46′ W. 50° 00′	29.69	754.1				sw.			3		10		wsw.	2 h'r	2 h'r	mod.	sw.	hazy.
JOHNSTON LINE.																		
S. S. Thanemore, N. 40° 51′, W. 54° 22′	29.73	755.1				n.			5		10		n.	rain	rain	slight	sw.	overcast.
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, N. 32° —′, W. 180 —′*†	30.29	769.4	64	17.8		w.			2		2?		wnw.	0	0	long	wnw.	cloudy.?
S. S. Humboldt. N. 12° 45′ W. 26° 33′.*	30.04	763.0	72.5	22.5	80	n.			3		6			0	0	3	con.	d. clouds.
LEYLAND LINE.																		
S. S. Iberian, N. 51° 57′, W. 6° 04′	29.15	740.4				sw.			7		2		wsw.	6 h'r	6 h'r	high	wsw.	
MALLORY LINE.																		
S. S. Colorado, N. 27° 57′, W. 90° 08′†	29.83	757.7	68	20.0		ene.			6		10		e.	2 h'r	2 h'r	mod.	n.	cloudy.
MERCHANTS' EXPRESS LINE.																		
S. S. Freja, Off Cape de la Hague, France†	29.41	747.0	54	12.2	80	sw.			6		8		wsw.	2 h'r	2 h'r	short	w.	
S. S. Hermod, N. 41° 16′, W. 61° 20′*†	29.50	749.3	50.0	10.0		nw.			4		4		w.	0	0	mod.	nw.	clear.
NATIONAL LINE.																		
S. S. Canada, N. 47° 56′, W. 21° 04′†	29.80?	756.9?	54	12.2		nnw.			4		6		e.	3 h'r	3 h'r	con.	n.	threatening.
S. S. England, Liverpool, Eng	29.15	740.4				ne.			5		8			8 h'r	8 h'r			squally.
S. S. Erin, London, England	29.31	744.5	60	15.6		wsw.			7		7		wsw.	10 h'r	10 h'r			cloudy.
S. S. Helvetia, N. 42° 07′, W. 47° 45′	29.80	756.9	58	14.4		ssw.			4		8		sw.	0	0	light	sw.	hazy.
S. S. Holland, N. 50° 31′ W. 1° 45	29.38	746.2	58	14.4		sw.			4		2		sw.	2 h'r	2 h'r	sm'h	sw.	clear.
S. S. Italy, N. 41° 44′ W. 53° 20′	29.76	755.9				wnw.			2		8		nw.	10 h'r	10 h'r	long	sw.	misty.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Niagara. N. 26° 30′ W. 79° 55′†	30.00	762.0	77	25.0		n.			2		3		ne.	0	0	mod.	n	fair.
S. S. Santiago, N. 22° 06′, W. 74° 22′ †	30.04	763.0	79	26.1		s.			1		1			0	0	sm'h		fine.
NEW YORK, HAVANA AND MEXICAN MAIL.																		
S. S City of Alexandria, Havana, Cuba, W. I. *†	30.04	763.0	77	25.0		s.			2		6		s.	0	0			hazy.
S. S. City of Puebla, N. 19° 50′, W. 91° 50′†	29.69	754.1	81	27.2		w.			2		8		wsw.			sm'h		
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Atlas, N. 18° 20′, W. 74° 38′*†	30.10	764.5	78	25.6		calm			0									clear.
S. S. New York, N. 24° 30′, W. 82° 45′*†	29.95	760.7	78	25.6		se.			1							sm'h		cloudy.
S. S. P. Caland, N. 42° 12′, W. 60° 07′	29.96	761.0	41.0	5.0		w.			4							3	w.	fine.
S. S. W. A. Scholten, N. 40° 48′, W. 63° 28′	29.70	754.4	42.2	5.7		nnw.			4									
NORTH GERMAN LLOYD																		
S. S. Elbe, N. 49° 46′, W. 6° 49′	29.29	743.9	52.7	11.5	70	sw.			7		5		sw.	5 h'r	5 h'r	r'gh	sw.	rainy.
S. S. Graf Bismarck, N. 23° 01′, W. 20° 09′	30.23	767.8	74.3	23.5		ne.			4–5		0			0	0	mod.	ne.	fair.
S. S. Hermann, N. 41° 48′, W. 47° 58′†	29.66	753.4	51.8	11.0		ssw.			5		8		s.	1 h'r	1 h'r	mod.	s.	rainy.
S. S. Hohenzollern, N. 27° 37′, W. 20° 23′*	30.13	765.3	61.7	16.5		n.			4		5		n.	0	0	sm'h	n.	fair.
S. S Koln, N. 41° 43′, W. 48° 53′*	29.74	755.4	59.5	15.3	91	ssw.			4		10			0	0	mod.	wsw.	clearing.
S. S. Leipzig, N. 44° 14′, W. 40° 11′	30.03	762.7	56.0	14.4	70	ese.			1		5		w.	0	0	long	nne.	fair.
S. S. Main, N 40° 35′, W. 62° 10′	29.78	756.4	51.8	11.0		nw.			4		0?		nw.	0	0	mod.	nw.	covered.?
S. S. Neckar, N. 44° 40′ W 37° 43′	29.98	761.5	55.2	12.9		nw.			2–3		2		nw.	0	0	mod.	ne.	fair.
S. S. Nurnburg, N. 50° 34′, W. 0° 31′	29.39	740.5	51.8	11.0		w			6		5		w.	4¾h'r	4¾h'r	r'gh	w.	fair.
S. S. Oder, N. 48° 59′, W. 20° 01′	29.57	751.1	51.8	11.0		nne.			6		5?		n.	0	0	r'gh	n.	cloudy?
S. S. Ohio, N 36° 57′ W. 75° 35′	30.11	764.8				n.			2		3		w.	0	0	sm'h	n	hazy.
S. S. Saller, N 43° 50′, W. 52° 00′	29.67	753.6	40.1	4.5		wsw.			3		8		w.	5 h'r	5 h'r	mod	wsw.	misty.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Belgic. San Francisco, Cal.†	30.03	762.7	49	9.4	93	sw.			4		fg		sw.	0	0	sm'h		clear.
S. S. Oceanic, N. 30° 26′ E. 128° 50′*	29.86	758.4	61	16.1	77	ne.			5		5		ne;sw			4	nne.	fine.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, Savannah, Ga†	29.97	761.2				nw.			1		8		wnw.	0	0			smoky.
S. S. Seminole, N. 41° 10′, W. 71° 10′ †	29.92	760.0	42	5.6	83	nw.			5		5		nnw.	0	0	sm'h	wsw.	fair.
OREGON IMPROVEMENT COMPANY.																		
S. S. Mississippi, N. 47° 53′, W. 124° 48′†	30.09	764.3	48	8.9	85	sse.			4		10		sw.			light	wnw.	heavy rain.
S. S. Willamette, Seattle, Wash. Ter.*†	30.12	765.0	51	10.6	86	sse.			4		7		s.	0.1	3.			rainy.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. City of Chester, Sitka, Alaska*†	29.46	748.3	45	7.2	?	ne.			1		2		ne.			sm'h		clear.
S. S. Columbia, N. 45° 31′, W. 124° 07′†	30.13	765 3	48.5	9.2	89	se.			2		10		ese.			sm'h	ssw.	misty.
S. S. Oregon, San Francisco, Cal.†	30.13	765.3	49	9.4	78	calm			0		8		sw.					hazy.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, San Francisco, Cal.†	30.06	763.5	49	9.4	93	s.			2		5		s.					fair.
S. S. Idaho, San Francisco, Cal. †	30.08	764.0	54	12.2	93	w.			4		0							clear.
S. S. State of California, Portland, Oregon.†	30.13	765.3	45	7.2	92	calm			0		10		se.					covered.
S. S. Victoria, Strai of Fuca, Wash. Ter.†	29.98	761.5	46	7.8	100	n.			1		8		sw.	2 h'r	2 h'r			drizzling.
PACIFIC MAIL STEAMSHIP CO.																		
S. S. Australia, Sydney, N. S. W.	29.94	760.5	67	19.4	84	se.			2		2		se.					clear.
S. S. City of New York, Sydney, N. S. W.†	29.98	761.5	72	22.2	90	calm			0		0			0	0			clear.
S. S. City of Pekin, N. 9° 42′, W. 84° 49′†	29.91	759.7	79	26.1	86	s.			1		2					sm'h		hazy.
S. S. City of Rio de Janeiro, N. 15° 30′, W. 96° 35′*†	30.08	764.0	77	25.0	86	n.			1		0					sm'h	sw.	clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
PACIFIC MAIL STEAMSHIP COMPANY.—CONTINUED.																		
S. S. City of Sydney, N. 29° 10′, W. 143° 21′†	30.24	768.1	63	17.2	83	ene.			5		8		ne.	0	0	mod.	ne.	misty.
S. S. City of Tokio, N. 36° 40′, W. 152° 16′†	30.26	768 6	56	13.3	63	ne.			2		8		e.	2 h'r	2 h'r	light	e.	cloudy.
S. S. Clyde, N. 8° 57′, W. 79° 31′†	29.89	759.2	79	26.1	86	var.			1		2		ssw.	0	0	sm'h		clear.
S. S. Colon, Aspinwall, Panama†	29.92	760.0	80	26.7		ne.			1		0			0	0	sm'h		clear.
S. S. South Carolina, Panama, Panama†	29.99	761.7	82	27.8	79	calm			0		0			0	0	sm'h		fine.
S. S. Zelandia, N. 31° 50′, W. 136° 50′	30.33	770.4	61	16.1	77	nw.			1		8		nw.			mod.	nw.	foggy.
QUEBEC STEAMSHIP COMPANY.																		
S. S. Muriel, N. 11° 28′, W. 61° 00′	30.02	762.5	82	27.8		e.			4		0			0	0	mod.	ne.	fair.
RED STAR LINE.																		
S. S. Belgenland, Antwerp, Belgium †	29.49	749.0	49	9.4	93	s.			4		6		sse.	5 h'r	5 h'r			fair.
S. S. Nederland, N. 40° 06′, W. 63° 50′*†	30.40	772.1	48	8.9		nw.			3		5		nw.	1 h'r	1 h'r	mod.	w.	fair.
S. S. Rhynland, N. 47° 58′, W. 26° 15′†	29.91	756.7	52	11.1	79	nw.			5		10		nnw.	0.3	8.	long	nw.	cloudy.
S. S. Switzerland, N. 42° 47′, W. 42° 55′†	29.99	761.7				s.			4		10		s.	0	0	long	ne.	cloudy.
S. S. Vaderland, N. 51° 07′, E. 1° 20′	29.44	747.8	55	12.8	87	ssw.			4		0			0	0	sm'h	ssw.	clear.
S. S. Waesland, Jersey City, N. J.	29.97	761.2	48	8.9		w.			2		8		wnw.	0	0			cloudy.
ROTTERDAM LINE.																		
S. S. Schiedam, New York, N. Y.						nw.			4		4		nw.	0	0			fair.
STATE LINE.																		
S. S. State of Florida, N. 50° 03′, W. 27° 55′	29.89	759.2	52	11.1		nnw.			4		9			light	light	mod.	nne.	hazy.
S. S. State of Indiana, N. 40° 40′, W. 68° 40′†	29.79	756.7	47	8.3		w.			1		2		w.	0	0	sli't	w.	clear.
THINGVALLA LINE.																		
S. S. Thingvalla, Christiansand, Norway†	29.81	757.2	42.8	6.0		e.			3		5?		e.	0	0			covered.?
WARREN LINE.																		
S. S. Iowa, N. 42° 02′, W. 60° 05′*†	29.90	759.4	42	5.6		wnw.			4		0			0	0	sm'h	w.	clear.
WHITE CROSS LINE.																		
S. S. Hermann, N. 40° 06′, W. 60° 02′†	29.84	757.9				nnw.			4		3 cs		nnw.	0	0	mod.	wnw.	fair.
WHITE STAR LINE.																		
S. S. Adriatic, N. 50° 24′, W. 17° 06′†	29.33	745.0	50	10.0		nnw.			6		5		n.	0	0	mod.	n.	showery.
S. S. Celtic, N. 50° 35′, W. 20° 40′†	29.61	752.1	51	10.6		nw.			5		8		nnw.	24 h'r	24 h'r	mod.	nw.	fair.
WILSON LINE.																		
S. S. Romano, N. 42° 23′ W. 51° 18′*†	29.49	749.0	46	7.8		var.					10		nw.			mod.	nw.	hazy.
S. S. Salerno, N. 51° 26′, E. 1° 29′*	29.29	744.0	54.5	12.5	71	sw.			6–7		5		sw.			sm'h		showery.
WINSOR LINE.																		
S. S. Catherine Whiting, Cape May, N. J.†	30.14	765.5				nw.			1		0			0	0	sm'h		
S. S. Norman, N. 40° 18′, W. 73° 12′	30.07	763.8				nw.			1		0					h'vy	e.	clear.
MISCELLANEOUS.																		
Sch. Addie Fuller, N. 28° 37′ W. 79° 54′†	30.04	763.0	74	23.3	72	ne			2	0	5 k		ne.	1.38	35.1	hv'y	ne.	d clouds.
Bk. Adelaide, Rio de Janeiro, Brazil*†	30.00	762.0	84	28.9		calm			0									
Schr. Ajax, Mobile, Ala†	30.06	763 5				n.			1		10		ne.	0	0			cloudy.
Bk. Alpha, N. 23° 08′, W. 69° 16′†	29.99	761.7	77	25.0		sse.			5		3		sse.	0	0		sse.	fair.
Bk. Antioch, S. 36° 08′, W. 8° 20′*†	29.95	760.7	68	20.0		wnw.			6		10		wnw.	3 h'r	3 h'r	mod.	wsw.	rainy.
Schr Asa Eldridge, Key West, Fla†	29.95	760.7				sse.			3		5		ssw.	0	0			threatening.
Bk. Aureola, N. 11° 35′, W. 31° 31′*†	30.16	766.1	82	27.8		ene.			6		9		ne.	0	0	mod.	ne.	squally.
Schr. Annie M. Smull, S. 42° 00′, E. 32° —′*†	29.50	749.3	58	14.4		w.								2 h'r	2 h'r			
Bkt. Carrie Heckle, N. 23° 12′, W. 70° 19′*†	30.15	765.8	77	25.0		sse.			5		5?		sse.	0	0	sm'h	sse.	cloudy?
Bk. Celestina, S. 27° 18′, W. 41° 30′*†	29.12	739.6				nw.			1		9		w.	0	0	long	ne.	cloudy.
Bk. Champion, N. 40° 10′, W. 44° 32′†	30.11	764.8				ssw.			6		8			2 h'r	2 h'r	r'gh	ene.	
Dora, N. 24° 10′, W. 82° 11′†	30.02	762.5	77.9	25.5		sse			1		2		s.	0	0	sm'h		clear.
Bk. E. L. Pettingill, N. 25° 45′, W. 132° 08′†	30.30	769.6				ne.			4		8		ne.	sh'rs	shr's	sm'h	ne.	d. clouds.
S. Enoch Train, N. 44° 58′ W. 35° 10′*	29.91	759.7				sw.			3		5		ssw.	0	0	long	ne.	hazy.
S. Exporter, N. 17° 00′, W. 29° 20′*†	30.25	768.3				e.			5		1		e	0	0	sm'h		fine.
S. Festina Lente, N. 44° 09′, W. 47° 28′*	29.81	757.2	52	11.1		s.			5		10		wsw.	4 h'r	4 h'r	sm'h		misty.
U.S.F.C.S.S. Fish Hawk, Quantico, Va†	30.17	766.3	47	8.3	77	n.			2		10		calm.	0	0			cloudy.
S. Grecian, S. 39° 38′ W. 6° 57′*†	29.80	756.9	62	16.7		wnw.			4		10		w.	mist	mist	long	w.	
Bk. Freya, N. 37° 32′ W. 54° 19′			65	18.3		s.			6		10		ssw.	8 h'r	8 h'r	long	ssw.	raining.
Bk. Granville, S. 35° 10′, E. 23° 28′*†	30.20	767.1				ssw.			4				wsw.	h'vy	h'vy	long	sw.	cloudy.
Schr Hattie G. McFarland, Baltimore, Md*†	30.08	764.0	44	6.7		nw.			1		4		w.	0	0			fair.
Schr. Henry Denison, Port Antonio, Jamaica†	30.02	762.5				ese.			1–2		1		e.	0	0			fine.
S. Hedwig, N. 42° 09′, W. 46° 08′	29.82	757.5	57.4	14.1	100	ssw			5		10		ssw.	½ h'r	½ h'r	2–3	ssw.	drizzling
Schr. John L. Thomas, N. 21° 28, W. 72° 50′*†	30.16	766.1				ese.					3		ese.	0	0			fine.
Bg. John Wesley, Sagua la Grande, Cuba, W. I.†	29.89	759.2	79	26.1		s.			1		0			0	0			clear.
Bk. Jona, N. 38° 50′, W. 48° 38′*†	30.01	762,2				sw.			3		5		w.	1 h'r	1 h'r	cross	sw.	clearing.
Bkt. Josephine, Aspinwall, Panama*†	30.02	762.5	82	27.8	74	e.			2		0			0	0			clear.
S. Lake Erie, N. 40° 40′, W. 56° 00′	25.64	752.8				n.			6		10?			0	0	hv'y	wsw.	clear.?
Bk. Liberia, N. 24° 34′, W. 25° 18′*†	30.25	768.3	74	23.3	85	nw.			3		1		ne.	0	0	long	nw.	fine.
Light House Tender, Laurel, N. 24° 38′, W. 81° 12′†	29.95	760.7	79	26.1		ssw.			1		5		w.	0	0	h'vy	s.	fair.
Schr. Maggie Abbot, N. 27° —′, W. 70° —′*†	29.98	761.5				ssw.								rain	rain	hv'y	w.	cloudy.
S. S. Malabar, N. 36° 31′ W. 2° 19′*†	29.80	756.9				w.			5		0			0	0	sm'h		clear.
Bg. Medina, Key Francis, W. I.†	30.11	764.8				sse.			1		2		se.					fine.
S. S. Nebo, S. 24° 00′, E. 45° 18′*†	29.84	757.9				nw.			1		2		nw.	0	0	sm'h		clear.
S. S. New York, Off Cabrera, Mediterranean*†	29.95	760.7				sw.			3				sw.	0	0	mod.	sw.	cloudy.
Bk. Peppina, N. 45° 51′, W. 3° 00′†	29.62	752.3	56	13.3	80	w.			4		2		w.			h'vy	w.	fair.
S. S. Radnorshire, N. 43° 28′, W. 24° 34′*†	29.89	759.2				nw.			6		10		nnw.	0	0	long	n.	cloudy.
S. Salisbury, N. 12° 06′ W. 34° 08′*†	30.10	764.5	75.2	24.0	89	ene.			5–6		5		ese.	0	0	r'gh	ne.	fair.
Bkt. Spotless, S. 2° 39′, W. 29° 45′*†						ese.							se.			mod.	sse.	clear.
Bk. Stella, S. 51° 18′, W. 80° 35′*	29.96	761.0	45.5	7.5	93	wsw.			6		7		w.	rain	rain	r'gh	w.	raining.
S. S. Victoria J Peed, Barranquilla, U. S.C*†	29.11	739.4				ne.			1		5							
Washington, N. 37° 18′, W. 65° 41′*†	29.85	758.2				nnw.			4		8		nnw.	1 h'r	1 h'r	sm'h	nw.	fair.
Bg. Wauburn, S. 4° 00′, W. 34° 50′*†	30.00	762.0				var.										light		heavy rain.
S. Wm. Woodbury, N. 43° 03′, W. 36° 53′*†	29.87	758.7	61	16.1		ssw.			2				wnw.			cross	nw.	cloudy.

International Chart I. April 14, 1882. Isobars and Isotherms.

UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON APRIL 15, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours	.....	.....	29.95	760.8	69.4	20.8	80	wnw.	.....	.....	5	.....	3	.....	.....	0	0	pretty fair...	Moiroud.
Algiers	.....	.....	29.83	757.6	65.8	18.8	59	w.	.....	.....	8	.....	7	.....	.....	0	0	very cloudy	Nicolas.
La Calle	.....	.....	29.76	756.0	70.2	21.2	54	nne.	.....	.....	2	.....	4	.....	.. ..	inap.	inap.	cloudy.....	Fonfrède.
Tunis	.....	.....	29.81	757.1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.03	762.7	64.8	18.2	65	nw.	.....	.....	3	.....	3	.....	.....	0	0	pretty fair...	Dumas.
Tebessa	.....	.....	29.95	760.7	75.2	24.0	97	w.	.....	.....	3	.....	3	.....	.....	0	0	pretty fair...	Derché.
Gerlville	.....	.....	.....	.....	61.2	16.2	17	nw.	.....	.....	5	.....	3	.....	.....	0	0	pretty fair...	Louchamp.
Laghouat	.....	.....	29.94	760.4	69.8	21.0	65	w.	.....	.....	4	.....	1	.....	.....	0	0	very fair	Abraham.
Biskra	.....	.....	30.02	762.5	80.6	27.0	21	nw.	.....	.....	7	.....	2	.....	.....	0	0	fair.....	Malau.
Australian.																			
Melbourne, Victoria	29.96	761.0	30.05	763.3	54.3	12.4	80	w.	3	1.3	.....	.....	1	.....	.....	0.01	0.3	fine.....	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.08	738.5	29.60	751.9	66.7	19.3	27	sw.	.....	.....	5	.....	5	.....	.....	0.181	4.6	.....	Prof. Ivan Stozir.
Cracow, I. R Observatory...	28.72	729.6	29.47	748.4	63.0	17.2	43	w.	2.5	1.1	.....	.....	7	.....	.....	0	0	.....	Dr. Wierzbiski.
Eperies	28.69	728.6	29.54	750.3	60.8	16.0	54	s.	.....	.....	3	.....	10 ks	.....	n.	0	0	.....	Julius Mikolik.
Gratz	28.34	719.8	29.54	750.4	64.2	17.9	54	w.	.....	.....	3	.....	4	.....	.....	0.031	0.8	.....	Andreas Rospini.
Hermannstadt	28.29	718.6	29.66	753 4	67.8	19.9	43	se.	.....	.....	2	.....	10	.....	.....	0	0	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.08	713.2	29.36	745.8	64.0	17.8	51	ene.	.....	.....	2	.....	3	.....	.....	0	0	.....	The Staff.
Lemberg	28.60	726.4	29.57	751.0	56.5	13.6	52	s.	.....	.....	2	.....	9	.....	.....	0	0	.....	Dr. T. Stanecki.
Pola	29.51	749.6	29.62	752.4	61.2	16.2	79	sse.	.....	.....	7	.....	6	.....	.....	0	0	.....	I. R.Hydrographic Office.
Szathmar	29.17	740.9	29.63	752.6	65.7	18.7	33	s.	.....	.....	3	.....	10	.....	.....	0	0	.....	Joseph Midlnszky, S. J.
Szegedin	29.34	745.3	29.63	752.7	66.6	19.2	37	s.	.....	.....	3	.....	4	.....	.....	0	0	.....	Karl Stancel.
Trieste	29.55	750.8	29.65	753.1	64.4	18.0	58	se.	.....	.....	1	.....	10	.....	.....	0.701	17.8	.....	Rieder.
Vienna	28.78	731.0	29.47	748.6	61.7	16.5	54	e.	.....	.....	1	.....	1	.....	.....	0	0	.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.48	748.8	29.58	751.3	37.6	3.1	73	nw.	20	8.9	.....	.....	6	.....	.....	0.040	1.0	squally.....	W. Boswell.
Armagh, Observatory	29.42	747.3	29.66	753.4	44.9	7.2	61	nne.	12	5.4	.....	.....	7	.....	.....	.....	.....	d. clouds.....	S. Call.
Bidston, Liverpool Obs'y	.....	.....	29.53	750.0	39.0	3.9	90	ne.	18	8.0	.....	.....	10	.....	.....	.....	.....	raining, ...	John Hartnup.
Bolton, Sharples	28.99	736.3	29.52	749.8	39.5	4.2	71	ene.	18	8.0	.....	.....	10	.....	.....	.....	.....	raining.....	Thomas Mackereth.[A.S.
Bradford, Yorkshire	29.10	739.1	29.50	749.3	41.7	5.4	76	e.	.....	.....	2	.....	10	.....	.....	0.02	0.5	raining.....	J.McLandsborough, F. R
Bridgetown, Barbadoes	30.00	762.0	30.03	762.7	81.0	27.2	70	ne.	.....	.....	2	.....	2	.....	.....	.....	.....	d. clouds....	Corpl.J.Surgenor, A. H.C.
Cardington	.....	.....	29.43	747.5	46.0	7.8	85	e.	.....	.....	2.0	.....	10	.....	.....	.....	.....	overcast	John McLaren.
Chatham, School M. E	30.28	769.1	30.42	772.7	50.3	10.2	54	calm	.....	.....	0	.....	10	.....	.....	.....	.....	thnd'r storm	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	29.17	740.9	29.39	746.5	53.6	12.0	80	ese.	.....	.....	1	.....	6	.....	.....	.....	.....	d. clouds.....	The Staff.
Fort Napier, Natal	27.54	699.5	29.76	755.9	85.0	29.4	53	ne.	.....	.....	1	.....	2	.....	.....	.....	.....	blue sky.....	Pvt. E. K.Annis, A.H.C.
Free Town, Sierra Leone	29.70	754.4	29.94	760.5	85.0	29.4	75	sw.	.....	.....	1	.....	3	.....	.....	.....	.....	blue sky.....	Sergt. John Robinson.
Gibraltar, Mediterranean	29.97	761.2	30.02	762.5	66.5	19.2	76	w.	.....	.....	2	.....	6	.....	.....	.....	.....	d. clouds.....	Opl. O. Baldwin.
Glasgow, Observatory	29.42	747.3	29.62	752.3	42.0	5.9	42	n.	.....	.....	3	.....	8 k	.....	.....	.....	.....	d. clouds.....	Harry Urquhart,Asst.
Greenwich, Royal Obs'y	29.24	742.7	29.41	747.0	51.8	11.0	83	nne.	.....	.....	.....	.....	10	.....	.....	.....	.....	foggy	The Staff.
Guernsey	29.09	738.9	29.38	746.2	54.3	12.4	86	ene.	.....	.....	1	.....	1	.....	.....	.....	.....	blue sky.....	A. Collenette, F. M. S.
Kew, Observatory	29.39	746.5	29.42	747.3	52.5	11.4	75	nne.	16	7.2	.....	.....	9	.....	.....	.....	.....	threatening.	The Staff.
Leicester, Museum	29.22	742.2	29.48	748.8	43.8	6.6	77	ne.	.....	.....	1	.....	10	.....	.....	.....	.....	overcast.....	J. C. Smith.
Malta, Mediterranean	29.63	752.6	29.71	754.6	69.0	20.6	69	se.	.....	.....	2	.....	0	.....	.....	.....	.....	blue sky.....	I. H. Whysall.
Nassau, Bahamas	29.99	761.7	30.04	763.0	82.2	27.9	74	sw.	.....	.....	2	.....	4	.....	.....	.....	.....	d. clouds.....	C. S. Duncombe.
Oscott, St. Mary's College	28.96	735.6	29.48	748.8	42.6	5.9	83	nne.	.....	.....	1	.....	10	.....	.....	.....	.....	overcast.....	John Mac Email.
Oxford, Radcliffe Obs'y	29.21	741.9	29.44	747.8	47.9	8.8	84	ne.	.....	.....	4	.....	9	.....	.....	.....	.....	squally.....	The Staff.
Plymouth	29.30	744.2	29.38	746 2	56.7	13.7	75	se.	.....	.....	3	.....	10	.....	.....	.....	.....	overcast.....	John Merrifield.
Sandwick Manse, Orkneys	.....	.....	29.63	752.6	34.8	1.6	75	n	29	13.0	.....	.....	5	.....	.....	.....	.....	snowy.....	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.85	758.2	29.92	760.0	58.8	14.9	51	ssw.	.....	.....	1	9 c; cs	0	.....	.....	.....	.....	d. clouds.....	W. H. Lyne.
Sheffield	29.28	743.7	29.57	751.1	42.3	5.7	81	ne.	.....	.....	1	.....	10	.....	.....	0.03	0.8	raining.....	W. F. Cooper.
Silloth Rectory	29.55	750.6	29.58	751.3	42.3	5.7	77	e.	.....	.....	3	.....	3	.....	.....	0.080	2.0	d. clouds.....	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	29.54	750.3	41.5	5.3	67	one.	11	4.9	.....	.....	10	.....	.....	.....	.....	overcast.....	Rev. S. J. Perry.
Stratfield Turgiss	29.19	741.4	29.40	746.7	56.2	13.4	75	ne.	.....	.....	3	.....	6	.....	.....	.....	.....	squally.....	Rev.C.H.Griffiths,F.M.S.
Truro, Royal Institution	29.37	746.0	29.40	746.7	58	14.4	81	ne.	.....	.....	4	.....	9	.....	.....	.....	.....	raining.....	W. Newcombe.
Valencia, Observatory	29.64	752.8	29.66	753.4	45.5	7.5	67	nne.	31	13.9	.....	.....	6	.....	.....	.....	.....	squally.....	The Met'g'l Office.
Canadian.																			
Bathurst, N. B	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.81	757.2	29.85	758.2	32	0.0	84	sw.	1	0.4	.....	0	2 s	.....	calm	0	0	fair.....	H. J. Cundall, C. E.
Chatham, N. B*	29.83	757 7	29.90	759.4	30	— 1.1	81	calm	0	0	.....	0	0	.....	.....	0	0	clear.....	G. A. Blair.
Father Point, Quebec*	29.88	758.9	29.91	759.7	33	0.6	92	w.	11	4.9	.....	0	2 s	.....	calm	0	0	clear.....	J. McWilliams.
Fort Garry, Manitoba*	29.28	743.7	30.17	766.3	17	— 8.3	96	calm	0	0	.....	0	0	.....	.....	0	0	clear.....	James Stewart.
Halifax, N. S*	29.77	750.1	29.90	759.4	35	1.7	79	w.	1	0.4	.....	0	0	.....	.....	0	0	clear.....	A. Allison.
Kingston, Ontario*	29.74	755.4	30.09	764.3	35	1.7	66	w.	2	0.9	.....	8 ck	2 s	ne.	ne.	0	0	cloudy.....	A. P. Knight, M. A.
Montreal, Quebec*	29.81	757.2	30.03	762.7	30	2.2	64	w.	8	3.6	.....	0	0	.....	.....	0	0	clear.....	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.40	746.7	30.13	765.3	28	— 2.2	88	s.	1	0.4	.....	0	0	.....	.....	0	0	clear.....	Rev. R. Mosley.
Port Dover, Ontario	29.42	747.3	30.15	765 8	29	— 1.7	100	nw.	5	2.2	.....	0	0	.....	.....	0	0	clear.....	H. Morgan.
Port Stanley, Ontario	29.47	748.5	30.15	765.8	26	— 3.3	100	nw.	1	0.4	.....	0	hz.	.....	.....	0	0	hazy.....	M. Payne.
Quebec, Quebec*	29 65	753.1	29.99	761.7	29	— 1.7	84	w.	.....	.....	1	0	0	.....	.....	0	0	clear.....	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.63	752.6	30.11	764.8	28	— 2.2	80	calm	0	0	.....	0	0	.....	.....	0	0	clear.....	W. H. McIntyre.
Saugeen, Ontario*	29.40	746.7	30.15	765.8	28	— 2.2	92	w.	8	3.6	.....	0	0	.....	.....	0	0	clear.....	
St. Andrews, N. B	29.85	758.2	29.90	759.4	37	2.8	63	n.	3	1.3	.....	.....	10 k	.....	.....	0	0	cloudy.....	
Sydney, C. B*	29.82	757.4	29.88	758.9	31	— 0.6	81	calm	0	0	.....	10 k	0	w.	.....	0	0	cloudy.....	T. C. Hill, C. E.
Toronto, Ontario*	29.75	755.6	30.15	765.8	32	0.0	88	w.	5	2.2	.....	.....	10 ks	.....	w.	0	0	cloudy	Magnetic Observatory.
Yarmouth, N. S*	29.84	757.9	29.91	759.7	35	1.7	89	w.	6	2.7	.....	0	0	.....	.....	0	0	clear.....	Lt. F. E. Wilmot, R. N.
Sub-arctic.																			
St. Johns, Newfoundland	29.68	753.9	29.94	760.5	32	0.0	100	w.	1	0.4	.....	5 k	5 s	.....	.....	0	0	fair.....	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	29.95	760.7	29.98	761.5	69.0	20.6	78	ssw.	5.7	2.5	.....	6 cs	0	.....	.....	0	0	hazy	John Duthie.
Cape Town, O. G. H. Obs'y	29.99	761.7	30.03	762.7	67.6	19.8	73	nw.	10	4.5	.....	8	9	.....	.....	0	0	.....	The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	OBSERVERS.
Chinese (Sub-series).																			
Hankow	30.08	764.0	30.36	771.1	56.8	13.8	74	nne.	.....	.....	2	.....	10	.....	.....	0	0	.....	N. Titoushkin.
Zi-Ka-Wei, near Shanghai.	30.19	766.7	30.21	767.4	48.2	9.0	73	e.	4.5	2.0	.....	5; fg	0	.....	.....	0	0	cloudy	M. Marc Dechevrens, S.J.
Danish.																			
Copenhagen	29.18	741.1	29.22	742.3	52.0	11.1	69	sw.	18	8	.....	.....	3	.....	.....	.....	.....	.....	Oversergent Fischer.
Fanöe	29.21	741.9	29.23	742.4	45.5	7.5	80	w.	.....	.....	4	.....	1	.....	.....	.....	.....	.....	Overloerer Lauridsen.
Godthaab, Greenland	29.62	752.3	29.66	753.4	28.6	— 1.9	74	nne.	.....	.....	3	.....	1	.....	.....	.....	.....	.....	S. Kleinschmidt.
Stykkisholm, Iceland	30.10	764.5	30.14	765.6	19.6	— 6.9	92	e.	.....	.....	6	.....	0	.....	.....	.....	.....	.....	A. O. Thorlacius.
Thorshavn	29.71	754.5	29.74	755.4	25.0	— 3.9	53	nne.	16	7	.....	.....	3	.....	.....	.....	.....	.....	Overloerer Bergh.
Vestervig	28.96	735.5	29.05	737.8	42.6	5.9	99	nnw.	.....	.....	4	.....	10	.....	.....	.....	.....	.....	Loearer Oesterbol.
French.																			
Agen, Normal School	28.77	730.7	29.42	747.3	52.2	11.2	93	nnw.	.....	.....	2	.....	10	.....	sw.	0.504	12.8	raining	M. Labroue, Director.
Alençon, Normal School	28.80	731.6	29.35	745.6	51.8	11	93	e.	.....	.....	.....	.....	k	s.	w.	0.08	2.	.....	M. Nicot, Director.
Arras, Engineer School	29.13	740.0	29.38	746.2	60.1	15.6	44	sw.	.....	.....	1	.....	k	.....	ne.	0.177	4.5	.....	Capt. Bertrand, Dir.
Avignon, Normal School	29.34	745.2	29.42	747.2	63.7	17.6	72	se.	.....	.....	2	.....	5	.....	se.	0.677	17.2	cloudy	M. Giraud, Director.
Bar-sur-Seine	28.83	732.2	29.36	745.8	59.9	15.5	56	se.	.....	.....	1	.....	10	.....	.....	0	0	covered	M. Saillard, Director.
Beauvais, Normal School	29.13	740.0	29.39	746.6	56.8	13.8	67	se.	.....	.....	1	.....	10	.....	sse.	0.126	3.2	covered	M. Frère Eugène Marl.
Besançon, Normal School	28.59	726.1	29.47	748.4	60.1	15.6	35	nw.	.....	.....	1	.....	10	.....	ssw.	0.35	9.	covered	M. Gobin, Director.
Bordeaux, Observatory	29.14	740.2	29.40	746.8	50.2	10.1	87	sw.	.....	.....	1	.....	1c	.....	sw.	0.472	12.0	raining	M. Rayet, Director.
Bourges, Normal School	28.82	731.9	29.36	745.8	54.5	12.5	65	s.	.....	.....	1	.....	.....	.....	.....	0.08	2.	.....	M. Postel, Director.
Brest, Naval Observatory	29.13	740.0	29.37	746.1	56.1	13.4	84	calm	.....	.....	0	.....	10	.....	.....	0.020	0.5	raining	M. de Kermaree, Dir.
Caen, Normal School	29.26	743.2	29.33	745.0	58.6	14.8	56	se.	.....	.....	1	.....	5	.....	se.	0.08	2.	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.08	738.6	29.39	746.4	63.5	17.5	59	n.	.....	.....	1	.....	5	.....	.....	0.008	0.2	cloudy	M. Jadot, Director.
Charleville, Normal School	28.99	736.3	29.48	748.9	60.4	15.8	55	se.	.....	.....	2	.....	.....	.....	.....	0.374	9.5	.....	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.67	712.9	29.40	746.7	53.6	12.0	58	sw.	.....	.....	1	.....	10	s.	sw.	0.134	3.4	covered	M. Allnard, Director.
Cluny, Normal School	28.58	725.8	29.42	747.2	45.5	7.5	92	sw.	.....	.....	1	.....	.....	sw.	.....	0.295	7.5	.....	M. de Villemontée, Dir.
Commercy, Normal School	28.68	728.4	29.53	750.1	50.7	10.4	62	sse.	.....	.....	3	.....	5 kn	sse.	sse.	0	0	cloudy	Dr. Coulet, Director.
Gap, Normal School	26.92	683.7	29.41	747.1	50.9	10.5	80	w.	.....	.....	4	.....	3	.....	e.	0.374	9.5	.....	M. Jeangirard, Director.
Gréasque, du. Rhone	28.36	720.3	29.45	748.1	61.7	16.5	56	se.	.....	.....	4	.....	5	.....	se.	0	0	.....	M. Kina, Director.
Grenoble, Normal School	28.70	729.0	29.45	747.9	59.5	15.3	60	se.	.....	.....	1	ck	0	.....	.....	0.252	6.4	.....	M. Ablard, Director.
Guéret, Normal School	28.14	714.8	29.72	754.9	54.5	12.5	59	sw.	.....	.....	1	.....	k	.....	ne.	0.12	3.	.....	M. Rivoire, Director.
Lamballe, Normal School	29.15	740.3	29.41	747.1	54.7	12.6	81	sse.	.....	.....	2	.....	5	.....	sse.	.....	.....	raining	M. Ollitrault, Director.
Lescar, Normal School	28.92	734.5	29.47	748.6	61.2	16.2	42	wsw.	.....	.....	4	0	5 kn	.....	.....	0.071	1.8	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	29.43	747.4	29.53	750.0	50.0	10.0	100	nw.	.....	.....	1	.....	10	ne.	nw.	0.059	1.5	raining	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.43	722.1	29.49	749.0	43.3	6.3	95	nnw.	.....	.....	1	.....	10	.....	wnw.	1.417	36.0	stormy	M. André, Director.
Mans, Normal School	29.06	738.2	29.37	746.0	49.6	9.8	97	se.	.....	.....	1	.....	1c	.....	se.	0.08	2.	covered	M. Piboen, Director.
Marseille, Observatory	29.23	742.4	29.50	749.2	61.9	16.6	60	sse.	.....	.....	2	.....	8	.....	ssw.	0	0	.....	M. Stephan, Director.
Montlouis l'Instituteur	24.32	617.8	29.17	740.8	42.8	6.0	55	sw.	26.2	11.7	.....	.....	5	sw.	.....	.....	.....	.....	M. Cave, for Dr. Fines.
Montpellier, Normal School	29.26	743.2	29.39	746.5	58.3	14.6	78	nne.	.....	.....	4	.....	5	.....	sw.	0	0	cloudy	M. Galzin, Director.
Nancy, Normal School	28.56	725.5	29.32	744.7	59.4	15.2	44	sw.	.....	.....	1	0	8 kn	.....	sw.	0	0	very cloudy	M. Hasse, Director
Nantes, Observatory	29.16	740.7	29.32	744.8	49.6	9.8	91	sw.	.....	.....	0–1	.....	10	.....	.....	0.189	4.8	rainy	M. Larocque, Director.
Perpignan, Observatory	29.30	744.2	29.41	746.9	64.0	17.8	44	ne.	7.4	3.3	.....	.....	6	.....	nnw.	0.024	0.6	.....	Dr. Fines, Director.
Pic-du-Midi, Summit	20.72	526.2	.....	.....	19.8	— 6.8	.....	sw.	.....	.....	1	.....	1c	.....	sw.	0.307	7.8	snowy	Gen'l de Nansouty, Dir.
Privas, Normal School	28.41	721.6	29.47	748.4	51.4	10.8	80	s.	.....	.....	4	.....	10	.....	.....	0.201	5.1	rain & hail	M. Taillieu.
Puy de Dôme Obs'y, Summit	24.52	622.9	.....	.....	32.9	0.5	98	sw.	.....	.....	8	.....	10	.....	.....	0.134	3.4	foggy	M. Allnard, Director.
Rochefort, Naval Obs'y	29.31	744.5	29.34	745.3	56.5	13.6	98	sw.	.....	.....	4	.....	8	.....	ssw.	0.008	0.2	¾ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.06	738.1	29.27	743.5	54.3	12.4	74	sw.	.....	.....	3	.....	8	sw.	sw.	0.224	5.7	very cloudy	M. Mouillot, Director.
Rodez, Normal School	27.37	695.1	29.54	750.2	44.6	7	88	nw.	.....	.....	1	.....	10	.....	.....	0.626	15.9	raining	M. Serger, Director.
Rouen, Normal School	29.32	744.8	29.37	746.0	58.6	14.8	74	w.	.....	.....	1	.....	0	.....	.....	0	0	clear	M. Brotier.
Saint Maur, Observatory	29.21	742.0	29.38	746.2	55.0	12.8	73	se.	.....	.....	1	.....	10	.....	se.	0.012	0.3	.....	M. Renou, Director.
Toulouse, Observatory	28.80	731.5	29.51	749.5	57.2	14.0	62	nnw.	.....	.....	1	.....	10	w.	.....	0.244	6.2	covered	M. Baillaud, Director.
Versailles, Observatory	28.88	733.6	29.37	746.1	55.8	13.2	79	s.	.....	.....	2	.....	.....	.....	.....	0.102	2.6	.....	Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.10	739.0	29.39	746.4	57.0	13.9	70	se.	.....	.....	1	.....	10	.....	ese.	0.087	2.2	sprinkling	M. Marié Davy, Director
German.																			
Bamberg	28.61	726.6	29.45	747.9	57.2	14.0	73	sw.	.....	.....	2	0	6 k	.....	sw.	0.091	2.3	raining	Prof. Dr. Hoh.
Berlin	29.18	741.2	29.35	745.5	62.2	16.8	36	sw.	.....	.....	1	.....	7	.....	.....	0.043	1.1	.....	Prof. Dr. Arndt.
Breslau	28.98	736.0	29.50	749 3	56.8	13.8	69	sw.	.....	.....	1	.....	0?	.....	.....	0.016	0.4	light rain.?..	Royal University Obs'y.
Carlsruhe	29.01	736.8	29.43	747.5	59.4	15.2	58	ene.	.....	.....	1	.....	9	sw.	.....	0.268	6.8	.....	Albert Senz.
Cassel	28.67	728.1	29.38	746.2	63.3	17.4	35	w.	.....	.....	3	.....	5	s.	.....	0	0	.....	Dr. H. Möhl.
Frankfort on the Main	29.06	738.1	29.41	747 1	60.6	15.9	55	sw.	.....	.....	1	.....	4	.....	.....	0	0	.....	Physical Society.
Friedrichshafen	28.03	711.9	29.43	747.5	55.8	13.2	72	ssw.	.....	.....	2	.....	3	sw.	.....	0	0	.....	Wilhelm, Chief Tel.
Hamburg	29.25	742.9	29.34	745 3	54.3	12.4	70	wsw.	.....	.....	5	.....	5	.....	.....	0.059	1.5	.....	E. Preller.
Kiel	29.25	743.0	29.27	743.4	51.8	11.0	69	wsw.	.....	.....	6	.....	4	.....	.....	0.114	2.9	.....	Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.02	737.0	29.43	747.4	61.0	16.1	48	sw.	.....	.....	2	.....	9	sw.	.....	0.043	1.1	.....	H. Leppig, Asst.
Magdeburg	29.18	741.1	29.35	745.4	63.9	17.7	40	wsw.	.....	.....	4	c	7 k; ks	.....	sw.	0.094	2.4	.....	Dr. Assmann.
Memel	29.47	748.4	29.51	749.5	46.0	7.8	83	sw.	.....	.....	2	1c	0	.....	.....	.....	.....	.....	Issermann.
Munich	27.66	702.5	29.49	749.0	59.0	15.0	42	calm	.....	.....	0	.....	5	sw.	.....	0.012	0.3	.....	Central Station.
Neufahrwasser	29.41	747.1	29.43	747.5	58.5	14.7	63	ssw.	.....	.....	1	.....	4	.....	.....	0.039	1.0	.....	A. Lothes.
Neustadt, Palatinate	28.90	734.0	29.41	747.1	58.6	14.8	68	s.	.....	.....	1	.....	10	s.	.....	0	0	.....	Dickuether.
Stuttgart	28.50	723.8	29.37	745.9	56.3	13.5	61	e.	.....	.....	1	.....	5	w.	.....	1.075	27.3	.....	Prof. Dr. Schoder.
Wustrow	29.32	744.6	29.34	745 2	49.6	9.8	79	wsw.	.....	.....	3	0	5 k	.....	.....	0.087	2.2	.....	Profs. Brandes & Reimer.
Greek.																			
Athens	29.63	752.7	30.02	762.5	65.8	18.8	.....	sw.	.....	.....	1.5	0	.....	.....	.....	0	0	clear	Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.80	756.8	29.85	758.1	91.0	32.8	48	wsw.	23.0	10.3	.....	.....	0	.....	.....	0	0	misty	
Deesa	29.26	743.1	29.71	754.6	104.5	40.3	22	wsw.	7.8	3.5	.....	.....	0	.....	.....	0	0	blue sky	
Bombay	29.71	754.5	29.74	755.5	86.7	30.4	75	nw.	11.0	4.9	.....	.....	0	.....	.....	0	0	blue sky	
Poona, Yarrowda	27.90	708.5	29.68	753.7	99.3	37.4	10	n.	17.0	7.6	.....	.....	0	.....	.....	0	0	blue sky	
Belgaum	27.23	691.7	29.73	755.2	82.0	27.8	69	w.	10.0	4.5	.....	.....	8	nw.	ne.	0.04	1.0	showery	
Lahore	28.90	733.9	29.61	752.1	96.0	35.6	18	nw.	2.3	1.0	.....	.....	0	.....	.....	0	0	blue sky	
Roorkee	28.70	729.0	29.57	751.0	95.2	35.1	13	nw.	3.8	1.7	.....	.....	0	.....	.....	0	0	.....	
Agra	29.09	739.0	29.63	752.7	99.1	37.3	11	n.	3.2	1.4	.....	.....	0	.....	.....	0	0	.....	
Nagpur	28.65	727.8	29.66	753.2	99.2	37.3	19	calm	2.8	1.2	.....	.....	0	.....	.....	0	0	blue sky	
Jubbulpore	28.38	720.8	29.69	754.1	95.0	35.0	9	n.	2.3	1.0	.....	.....	0	.....	.....	0	0	blue sky	
Lucknow	29.26	743.2	29.62	752.4	98.0	36.7	18	wsw.	7.5	3.4	.....	.....	0	.....	.....	0	0	misty	
Allahabad	29.32	744.7	29.63	752.5	96.7	35.9	19	w.	3.3	1.5	.....	.....	0	.....	.....	0	0	blue sky	
Patna	29.49	749.0	29.67	753 6	93.7	34.3	20	wnw.	3.8	1.7	.....	.....	0	.....	.....	0	0	blue sky	
Hazaribagh	27.69	703.2	29.63	752.6	93.3	34.1	15	w.	6.8	3.0	.....	.....	0	.....	.....	0	0	blue sky	
Cuttack	29.00	751.9	29.68	753 9	95.0	35.0	23	s.	0.5	0.2	.....	.....	3	.....	.....	0.03	0.8	d. clouds	
Calcutta, Alipore	29.66	753.2	29.68	753.8	89.7	32.1	33	nnw.	1.0	0.4	.....	.....	2	.....	.....	0	0	d. clouds	
Dhubri	29.57	751.1	29.69	754.0	83.2	28.4	49	ne.	3.5	1.6	.....	.....	1	nne.	.....	0	0	d. clouds	
Chittagong	29.64	752.9	29.73	755 2	84.0	28.9	64	calm	1.0	0.4	.....	.....	7	.....	.....	0	c	d. clouds	
Sibsagar	29.45	748.0	29.79	756.6	77.6	25.3	75	ne.	2.4	1.1	.....	.....	6	w.	w.	0	0	d. clouds	
Jeypore	28.28	718.2	29.67	753.5	98.3	36.8	11	nw.	6.2	2.8	.....	.....	0	.....	.....	0	0	blue sky	
Zanzibar, Africa	29.86	758.4	.....	.....	84.3	29.1	74	s.	4.7	2.1	.....	.....	7	.....	se.	0.63	16.0	threatening	
Bellary	28 24	717.3	.....	.....	98.0	36.7	21	ne.	4.0	1.8	.....	5 ck	0	.....	.....	0	0	d. clouds	
Trichinopoly	29.49	749.0	.....	.....	94.9	34.9	34	nw.	2	0.9	.....	.....	10	.....	.....	0	0	overcast	
Italian.																			
Udine	29.26	743.3	29.67	753 7	52.5	11.4	93	calm	0	0	.....	.....	10	.....	.....	0.500	12.7	.....	Prof. Giovanni Clodig.
Milan	29.07	738.4	29.55	750.5	51.3	10.7	88	ne.	1.3	0.6	.....	.....	10	.....	.....	0.823	20.9	.....	Prof. Schiaparelli.
Padua	29.50	749.2	29.61	752.0	56.5	13.6	85	nne.	12.5	5.6	.....	.....	10	ne.	.....	0.067	1.7	.....	Prof. Dott. Lorenzoni.
Moncalieri	28.07	728.3	29.57	751.1	48.9	9.4	88	n.	1.8	0.8	.....	.....	10	.....	.....	0.154	3.9	.....	Prof. P. F. Denza.
Genoa	29.38	746.3	29.57	751.1	57.2	14.0	89	se.	5.6	2.5	.....	.....	10	se.	.....	0.154	3.9	.....	Prof. G. M. Garibaldi.
Mondovi	27.66	702.6	29.58	751.2	46.8	8.2	87	w.	.....	.....	2	.....	9	.....	.....	0.157	4.0	.....	Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Italian.—Continued.																			
Pesaro	29.58	751.2	29.62	752.4	50.4	10.2	69	se.	8.7	3.9			10	nw.		0	0		Prof. Luigi Guidi.
Florence	29.34	745.2	29.59	751.6	70.7	21.5	46	s.			6		8	s.		0	0		Prof. Costantino Pitter.
Leghorn	29.80	756.9	29.89	759.1	64.4	18.0	58	s.	9.8	4.4			7	w.		0	0		Prof. P. Monte.
Rome	29.52	749.7	29.69	754.1	65.8	18.8	60	s.	21.0	9.4			8			0.024	0.6		Prof. P. S. Ferrari.
Lecce	29.63	752.6	29.88	759.0	63.0	17.2	67	sw.	34.2	15.3			10	sw.		0	0		Prof. C. de Giorgi.
Cosenza	28.91	734.3	29.80	756.8	70.2	21.2	77	wsw.	4.9	2.2			8	sw.		0	0		Prof. D. Conti.
Cagliari	29.51	749.5	29.70	754.4	64.9	18.3	61	sw.			4		10	sw.		0.020	0.5		Prof. A. Pacinotti.
Palermo	29.55	750.5	29.80	756.8	68.0	20.0	59	nnw.	4.3	1.9			9			0	0		Prof. G. Ciaccíatore.
Syracuse	29.84	758.0	29.89	759.1	66.4	19.1	71	s.	9.8	4.4			10	sw.		0	0		Prof. Vincenzo Guiliano.
Sub-series.																			
Naples, S. R	29.26	743.2	29.78	756.3	63.5	17.5	57	e.	0	0			10	w.		0.012	0.3		Prof. T. Brioschi.
Stelvio	21.75	552.4			33.6	0.9	81	sw.			3		10			0.161	4.1	covered.	Prof. P. F. Denza.
Valdobbia	21.74	552.3			30.4	— 0.9	85	e.			2		10			0.079	2.0	covered.	Prof. P. F. Denza.
Japanese.																			
Aomori	29.91	759.7	29.95	760.7	38.2	3.4	81	w.	13.9	6.2		0	3 ks			0.218	5.5	fair	K. Ogawa.
Hakodate	29.90	759.4	29.91	759.7	40.0	4.4	76	w.	4.8	2.1			3			0	0	clear	
Hiroshima, I. M. Obs'y	30.10	764.5	30.12	765.0	44.7	7.1	73	n.	2.1	0.9		0	0			0	0	clear	K. Sasaki.
Kanazawa	29.96	761.0	30.06	763.5	42.9	6.1	82	sw.	9.1	4.1			10 n			0.270	6.9	raining	S. Endo.
Kioto	29.87	758.7	30.05	763.3	43.0	6.1	76	nw.	0.9	0.4		0	0			0	0	clear	M. Tojima.
Kochi	30.06	763.5	30.08	764.0	53.1	11.7	80	n.	18.9	8.4		0	4 s			0	0	fair	
Nagasaki, I. M. Obs'y	29.94	760.5	30.15	765.8	49.6	9.8	71	ne.	3.1	1.4		0	1 s			0	0	clear	S. Takehayashi.
Niigata	29.99	761.7	30.02	762.5	43.1	6.2	80	ne.	4.4	2.0			10 n			0.300	7.6	raining	
Nobiru	29.94	760.5	29.95	760.7	42.6	5.9	72	nw.	11.5	5.1		0	3 s			0	0	fair	H. Midzushina.
Sapporo					36.5	2.5	91	calm	0	0			0			0.120	3.0	clear	
Tokei Obs'y, Yeddo	29.91	759.7	29.98	761.5	44.6	7.0	98	nne	6.8	3.0			10 n			0.399	10.1	raining	The Staff.
Wakayama	30.01	702 2	30.07	763.8	47.6	8.7	66	nw.	3.3	1.5		0	0			0	0	clear	Y. Kuwamura.
Mauritius.																			
Mauritius Observatory	29.80	756.9	29.99	761.7	79.1	26.2	75	e.	17.5	7.8		1 cs	3 ks		ese.	0	0	fair	Oliver & Figon.
Mexican.																			
Guanajuato	23.66	600.8	29.88	758.8	57.7	14.3	70	ese.				0	4 k		s.	0	0	clear	Vicente Fernandez.
Leon	24.36	618.7	30.05	763.3	57.7	14.3	71	nnw.			1	6 c	2 s	sw.		0	0	dense fog	Prof. M. Leal.
Mazatlan	29.71	754.6	29.97	761.2	65.5	18.6	45	nw.	1.6	0.8		7 cs	0	sw.		0	0	cloudy	F. Quijano, C. E.
Mexico, Central Obs'y	23.08	586.1	30.14	765.6	54.1	12.3	62	calm	0	0		5 c	0	sw.		0	0	clear	The Staff.
Morelia	24.23	615.3	30.37	771.3	57.7	14.3	78	se.			1	2	2	s.	s.	0	0	clear	M. Tena, M. D.
Pabellon, Aguascalientes	23.90	607.1	29.92	760.0	54.1	12.3	67	calm	0	0		2 c	2 s	sw.	sw.	0	0		M. V. de Leon, M. E.
Puebla, Catholic Institute	23.37	593 5	30.05	763.3	55.4	13.0	87	ne.	0.2	0.1		0	0			0	0	clear	Prof. P. Spina.
San Luis Potosi	24.19	614.5	30.18	766.6	49.5	9.7	60	w.			1		10		w.	0	0	covered	G. Barroeta, M. D.
Zacatecas	22.46	570.5	30.11	764.9	49.1	9.5	62	ssw.	11.5	5.1		5 c	0			0	0	clear	J. A. Bonilla, M. E.
Netherlands.																			
Flushing	29.43	747.4	29.43	747.4	55.8	13.2		wnw.			3					0	0		
Groningen	29.32	744.7	29.37	746.1	50.4	10.2		nw.			2					0	0		
Helder	29.39	746.4	29.39	746.4	47.5	8.6		w.			4					0	0		
Hellevoetsluis	29.40	746.8	29.40	746.8	56.1	13.4	73	wnw.			2					0	0		
Utrecht	29.36	745.8	29.41	747.0	59.4	15.2	65	w.			3		5			0.012	0.3	cloudy	H. van der Brink.
Norwegian.																			
Bergen	29.18	741.1	29.24	742.7	39.2	4.0	35	nnw.	22	10			1			0	0		
Brono	29.44	747.7	29.48	748.7	29.8	— 1.2	54	ne.	4	2			2			0.039	1.0		
Christiania	29.08	738.5	29.22	742.3	33.8	1.0	85	nne.	7	3			10			0.004	0.1	snowing	
Gjæsvær	29.54	750.3	29.56	750.9	28.4	— 2.0		ene.			2		10					snowing	
Lodingen	29.49	749.1	29.54	750.3	28.0	— 2.2	55	w.			2		5						
Portuguese.																			
Angra, Azores					60.1	15.6	79	w.	6.3	2.8			4			0	0		Dr. J. A. Sampaio.
Campo Major	28.83	732.2	29.83	757.6	56.5	13.6	78	wsw.	16.8	7.5			9			0.146	3.7		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.16	766.0	30.24	768.2	66.0	18.9	57	calm					10			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.59	751.5	29.95	760.7	59.2	15.1	62	wnw.	22.4	10.0			8			0.075	1.9		The Staff.
Ponta Delgada, Azores	30.22	767.5	30.29	769.3	64.0	17.8	57	w.	9.8	4.4			4			0	0		
Saint Paul de Loando	29.69	754.2	29.89	759.3	83.8	28.8	79	wsw.	0.7	0.3			3		ese.	0	0		
Serra da Estrella	24.97	634.2	29.80	756.9	33.6	0.9	100	nw.	40.9	18.3			10			5.437	138.1	fog & sleet	
Russian.																			
Akmolinski	28.86	733.6	30.00	761.9	33.3	0.7	85	wsw.	11	5			9 ks			0.004	0.1		Major K. Lasarew.
Archangel	29.51	749.0	29.53	750.1	32.2	0.1	79	s.	9	4		0	5 ks			0	0		Capt. Sselliwerstow.
Astrakhan	30.11	764.9	30.03	762.8	56.5	13.6	57	ssw.	11	5		0	7 k			0	0		Capt. Wisganow.
Barnaul	29.54	750 2	30.05	763.3	35.4	1.9	84	w.	9	4			10			0	0		Meteorological Obs'y.
Dorpat	29.33	744.9	29.57	751.1	41.4	5.2	58	se.	7	3			10 n			0.043	1.1		Observatory.
Ekaterinburg	28.67	728.2	29.64	752.8	41.2	5.1	61	sw.	16	7			10			0	0		Meteorological Obs'y.
Kasan	29.44	747.7	29.71	754.7	35.6	2.0	48	wnw.	18	8			3 k			0	0		Observatory.
Kertch	29.94	760.5	29.97	761.1	48.4	9.1	80	sse.	11	5		0	6 ks			0	0		Lagorio & Sastyrez.
Kieff	29.08	738.6	29.71	754.6	50.9	10.5	70	se.	16	7		c;cs	7 ks			0	0		Observatory.
Lugan	29.74	755.3	29.94	760.5	52.0	11.1	50	ssw.	22	10			6			0	0		Meteorological Obs'y
Moscow	29.26	743.3	29.75	755.6	39.2	4.0	39	ssw.	7.8	3.5		0	6 ks			0	0		Meteorological Obs'y.
Nikolaiev	29.80	750.8	29.87	758.6	54.7	12.6	64	s.	45	20		0	0			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor	29.94	760.4	30.02	762.6	25.5	— 3.6	69	calm	0	0			0			0	0		Lieut. Iwanow.
Pekin, China	29.84	758.0	29.98	761.6	60.8	16.0	40	calm	0	0		0	0			0	0		Physical Observatory
St. Petersburg	29.01	752.2	29.63	752.6	36.3	2.4	44	nw.	4	2			ck	8 ku		0	0	light clouds	Central Physical Obs'y
Ssemipalatinsk	29.47	748.4	30.14	765.5	44.1	6.7	69	calm	0	0				10 s		0	0		Major Lasaren.
Tashkend, Laboratory	28.62	726.9	30.17	766.3	64.4	18.0	63	calm	0	0			2			0.728	18.5		Teich, A. M.
Tiflis	28.54	725.0	29.92	760.0	68.7	20.4	18	nw.	2	1		0	0			0	0		Physical Observatory
Vladivostok	29.93	760.2	30.00	761.9	34.2	1.2	73	ne.	7	3			10 k			0	0		
Warsaw	29.07	738.4	29.48	748.8	63.7	17.6	45	ssw.	9	4			9 ks						Astronomical Obs'y
Wilna	29.15	740.3	29.57	751.0	47.3	8.5	73	sse.	7	3			6			0.016	0.4	heavy clouds	Berg, Assistant.
Yeniseisk	29.50	749.4	29.80	756.8	39.2	4.0	87	nw.	4	2			2			0.173	4.4		M. O. Marks.
Spanish.																			
Barcelona, Met. Obs'y	29.41	747.0	29.51	749.6	61.7	16.5	61	sw.	5.8	2.6			1			0	0		Antonio Rave, Director.
Bilbao, Met. Obs'y	29.53	750.0	29.59	751.5	54.0	12.2	78	nw.	3.8	1.7			10			0.673	17.1	covered	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	26.61	676.0	29.56	750.9	50.4	10.2	58	sw.	17.4	7.8			9			0.272	6.9	almost cov'd	Domingo Martin.
Madrid, Royal Obs'y	27.46	697.5	29.69	754.0	51.6	10.9	78	w.	23.7	10.6			10			0.043	1.1	covered	The Staff.
Murcia, Met. Obs'y	29.55	750.6	29.69	754.2	72.5	22.5	41	wsw.	4.9	2.2		4	4		e.	0.008	0.2	cloudy	Olayo Diaz, Director.
Santiago, Met. Obs'y	28.77	730.8	29.67	753.6	51.8	10.9	86	nw.	13.6	6.1			8			0.823	20.9	almost cov'd	R. Gil Vallanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I	29.90	759.4	29.97	761.1	77.3	25.2	87	se.	3.1	1.4		2 c	1 k	w.	s.	0	0	fair	Benito Vines, S. J.
Manilla, Philippine Islands	29.84	758.0	29.90	759.4	80.2	26.8	78	ese.	3.1	1.4		3 c	4 ck		e.	0	0	fair	F. Faura, S. J.
San Fernando, Naval Obs'y	29.89	759.1	29.99	761.6	62.4	16.9	69	w.	13.4	6.0		0	9		w.	0.006	0.1		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	30.01	762.2	30.10	764.5	78.4	25.8	83	calm	0	0		3 s	2 k	sw.	sw.	0	0		Manuel Maeu.
Tuguegarao, Philippine Id's	29.86	758.4	29.99	761.7	72.5	22.5	79	nnw.	10.7	4.8			10 ks		ne.	0.01	0.3	covered	José L. Yrastorza.
Swedish																			
Haparanda	29.49	749.0	29.53	750.0	29.5	— 1.4	92	n.			2		5			0	0		
Umea	29.47	748.4	29.52	749.7	37.8	3.2	59	sw.			2		6			0	0		
Hernosand	29.45	748.1	29.50	749.4	31.1	— 0.5	94	ene.			2		10			0	0		
Stockholm	29.13	739.9	29.31	744.4	35.2	1.8	93	ese.			6		10			0.012	0.3	snowing	
Wisby	29.26	743.2	29.32	744.7	46.4	8.0	83	ssw.			2		10			0.031	0.8		
Sub-series.																			
Unsala	29.22	742.2	29.31	744.4	33.3	0.7	92	ese.	10.5	4.7			10			0.598	15.2	snowing	S. G. Fineman.
Swiss.																			
Geneva	28.02	711.7	29.46	748.2	50.7	10.4	68	nnw			2					1.047	26.6	covered	The Observatory

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
TURKISH.																			
Constantinople	.....	.....	29.98	761.5	64.4	18.0	37	sw.	4.5	2.0	.....	.....	6	.....	sw.	0	0	.....	The Observatory.
Valona	.....	.....	29.93	760.2	66.7	19.3	.....	se.	.....	.....	1	.....	10	.....	.....	0	0	covered	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	30.03	762.8	62.1	16.7	75	ne.	.....	.....	1	0	8 ks	.....	ne.	0.15	3.8	.....	Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	30.02	762.5	30.10	764.5	40	— 4.4	65	w.	5	2.2	.....	.....	10 s	.....	.....	0	0	cloudy	J. O. Barnes.
Alpena, Michigan	29.48	748.8	30.16	766.1	30	— 1.1	68	w.	6	2.7	.....	0	0	.....	.....	0	0	clear	Jas. J. Fitzgerald.
Atlanta, Georgia	28.84	732.5	30.03	762.7	48.5	9.2	81	nw.	7	3.1	.....	3 k	6 k	calm	calm	0.07	1.8	cloudy	H. Hall.
Atlantic City, New Jersey	30.08	764.0	30.09	764.3	44	6.7	70	n.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	Jas. M. Watson.
Augusta, Georgia	29.82	757.4	30.00	762.0	60	15.6	90	w.	2	0.9	.....	.....	10 n	.....	sw.	0.11	2.8	light rain	John Healy.
Baltimore, Maryland	30.09	764.3	30.14	765.5	47	8.3	56	ne.	1	0.4	.....	10 cs	fg.	w.	.....	0	0	cloudy	Robert Seyboth.
Barnegat, New Jersey	30.07	763.8	30.09	764.3	42.5	5.8	70	n.	1	0.4	.....	0	7 k	.....	sw.	0	0	fair	Chas. F. Merritt.
Bismarck, Dakota	28.20	716.3	30.07	763.8	33	0.6	81	se.	5	2.2	.....	10 k	0	se.	.....	0	0	cloudy	Cyrus Cramer.
Boise City, Idaho	27.12	688.8	29.96	761.0	43	6.1	93	w.	2	0.9	.....	.....	10 n	.....	calm	0.11	2.8	light rain	B. E. Light.
Boston, Massachusetts	29.87	758.7	30.03	762.7	38.5	3.6	54	w.	10	4.5	.....	0	0	.....	.....	0	0	clear	O. B. Cole.
Brownsville, Texas	30.19	766.8	30.24	768.1	54	12.2	80	nw.	8	3.6	.....	10 cs	0	.....	.....	0	0	cloudy	J. C. Galloway.
Buffalo, New York	29.36	745.7	30.13	765.3	34.3	1.3	74	calm	0	0	.....	.....	10s;sk	.....	sw.	inap.	inap.	cloudy	Wm. Finn.
Burlington, Vermont	29.74	755.4	30.04	763.0	39.3	4.1	64	calm	0	0	.....	.....	10 s	.....	w.	0	0	cloudy	G. C. Schaeffer.
Cairo, Illinois	29.81	757.2	30.22	767.6	46.7	8.2	85	calm	0	0	.....	0	0	.....	.....	0	0	clear	W. H. Ray.
Campo, California	27.46	697.5	30.04	763.0	32.2	0.1	88	se.	3	1.3	.....	0	0	.....	.....	0	0	clear	W. H. Clendenon.
Camp Thomas, Arizona	27.33	694.2	30.06	763.5	43	6.1	60	se.	.....	.....	1	0	0	.....	.....	0	0	clear	J. T. Fitzgerald.
Cape Henry, Virginia	30.05	763.3	30.07	763.8	48	8.9	77	ne.	20	8.9	.....	.....	10 n	.....	ne.	0.19	4.8	light rain	J. E. Lanouette.
Cape May, New Jersey	30.06	763.5	30.09	764.3	47	8.3	63	ne.	6	2.7	.....	.....	10 ks	.....	sw.	0	0	cloudy	W. Bolten.
Cedar Keys, Florida	29.92	760.0	29.94	760.5	71	21.7	84	e.	9	4.0	.....	.....	10 s	.....	e.	0.05	1.3	cloudy	F. W. Mixer.
Champaign, Illinois	29.36	745.7	30.20	767.1	38.5	3.6	71	ne.	5	2.2	.....	0	3 s	.....	n.	0.01	0.3	clear	L. A. Welsh.
Charleston, S. Carolina	29.89	759.2	29.95	760.7	61	10.1	93	nw.	3	1.3	.....	.....	10 s	.....	sw.	0	0	threatening	J. H. Smith.
Charlotte, N. Carolina	29.14	740.1	30.00	762.0	51.0	10.6	93	ne.	4	1.8	.....	.....	10 s	.....	ne.	0.39	9.9	cloudy	D. O. Donoghue.
Chattanooga, Tennessee	29.27	743.4	30.10	764.5	48.0	8.9	63	n.	5	2.2	.....	1 cs	0	calm	.....	0	0	clear	B. L. Goulding.
Cheyenne, Wyoming	23.97	608.8	29.97	761.2	28.2	— 2.1	61	w.	6	2.7	.....	0	0	.....	.....	0	0	clear	E. McGovern.
Chicago, Illinois	29.48	748.8	30.20	767.1	34.3	1.3	78	nw.	2	0.9	.....	0	hz.	.....	.....	0	0	clear	J. Mitchell.
Chincoteague, Virginia	30.04	763.0	30.06	763.5	44	6.7	76	e.	12	5.4	.....	.....	10 n	.....	.....	0.03	0.8	light rain	V. P. Temple.
Cincinnati, Ohio	29.51	749.5	30.18	766.6	38.5	3.6	81	se.	2	0.9	.....	.....	10 k	.....	s.	0	0	cloudy	R. B. Watkins.
Cleveland, Ohio	29.41	747.0	30.17	766.3	37	2.8	57	n.	6	2.7	.....	.....	10 s	.....	.....	0	0	cloudy	J. B. Newlin.
Coleman City, Texas	28.45	722.6	30.27	768.8	32	0.0	88	nw.	4	1.8	.....	0	0	.....	.....	0	0	clear	L. Dorman.
Columbus, Ohio	29.28	743.7	30.16	766.1	37	2.8	82	n.	3	1.3	.....	0	fg.	.....	.....	0	0	clear	D. Cuthbertson.
Concho, Texas	28.37	720.6	30.31	769.9	30	— 1.1	88	nw.	4	1.8	.....	0	0	.....	.....	0	0	clear	W. W. McConihe.
Davenport, Iowa	29.55	750.6	30.22	767.6	37	2.8	82	calm	0	0	.....	0	fg.	.....	calm	0	0	light fog	R. R. Martin.
Dayton, Washington T'y	28.24	717.3	29.99	761.7	39.8	4.3	77	sw.	10	4.5	.....	4 cs	0	sw.	.....	0.49	12.4	fair	H. Clifford.
Deadwood, Dakota	25.25	641.3	29.94	760.5	28	— 2.2	70	sw.	4	1.8	.....	0	0	.....	.....	0	0	clear	G. W. Scott.
Decatur, Texas	.....	.....	.....	.....	40	4.4	65	n.	6	2.7	.....	0	3 s	.....	.....	0	0	clear	D. J. Carr.
Delaware Breakwater, Del.	30.07	763.8	30.09	764.3	45	7.2	76	e.	14	6.3	.....	3 ck	7 s	w.	.....	0	0	cloudy	A. Schneider.
Denison, Texas	29.42	747.3	30.22	767.6	40.0	4.4	82	n.	4	1.8	.....	0	0	.....	.....	inap.	inap.	clear	J. McGlone.
Denver, Colorado	24.69	627.1	29.96	761.0	32.0	0.0	74	s.	9	4.0	.....	0	0	.....	.....	0	0	clear	F. M. Neal.
Des Moines, Iowa	29.31	744.5	30.24	768.1	33	0.6	77	n.	1	0.4	.....	0	sk.	.....	.....	0	0	clear	F. W. Conrad.
Detroit, Michigan	29.44	747.8	30.17	766.3	39.9	4.4	82	ne.	1	0.4	.....	hz	sk.	.....	.....	0	0	clear	C. F. R. Wappenhans.
Dodge City, Kansas	27.57	700.3	30.21	767.3	29	— 1.7	80	calm	0	0	.....	0	0	.....	.....	c.03	0.8	clear	E. A. Thomas.
Dubuque, Iowa	29.46	748.3	30.20	767.1	33	0.6	68	ne.	1	0.4	.....	0	fg.	.....	calm	0	0	clear	J. Harvey Smith.
Duluth, Minnesota	29.47	748.5	30.19	766.8	28	— 2.2	64	calm	0	0	.....	0	0	.....	.....	0	0	clear	N. B. Conger.
Eagle Pass, Texas	29.54	750.3	30.35	770.9	40.0	4.4	65	ne.	6	2.7	.....	0	0	.....	.....	0	0	clear	F. Belford.
Eagle Rock, Idaho	25.24	641.1	29.96	761.0	34	1.1	74	n.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. M. Clifford.
Eastport, Maine	29.85	758.2	29.92	760.0	38	3.3	66	n.	6	2.7	.....	5 ck	0	n.	.....	0	0	fair	J. H. Melton.
El Paso, Texas	26.41	670.8	30.15	765.8	30	— 1.1	81	e.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.40	746.7	30.15	765.8	35	1.7	79	calm	0	0	.....	0	2 s	.....	.....	0	0	clear	R. H. Paxton.
Escanaba, Michigan	29.52	749.8	30.21	767.3	32	0.0	78	nw.	3	1.3	.....	0	0	.....	.....	0	0	clear	C. Dill.
Florence, Arizona	28.52	724.4	30.02	762.5	53.5	11.9	36	ne.	9	4.0	.....	0	0	.....	.....	0	0	clear	R. R. Herman.
Fort Apache, Arizona	25.06	636.5	29.98	761.5	28	— 2.2	80	e.	1	0.4	.....	0	0	.....	.....	0.03	0.8	clear	W. O. Barnes.
Fort Assinnaboine, Montana	26.89	683.0	29.79	756.7	36	2.2	82	ne.	2	0.9	.....	9 k	1 s	.....	.....	0	0	cloudy	B. O. Lenoir.
Fort Bennett, Dakota	28.44	722.4	30.08	764.0	33	0.6	71	se.	3	1.3	.....	0	0	.....	.....	0	0	clear	T. Gibson.
Fort Benton, Montana	26.93	684.0	29.79	756.7	42	5.6	60	calm	0	0	.....	.....	10 s	.....	calm	0	0	cloudy	S. Wheaton.
Fort Buford, Dakota	27.95	709.9	30.02	762.5	32	0.0	71	se.	6	2.7	.....	0	0	.....	.....	0	0	clear	A. H. Bell.
Fort Custer, Montana	26.64	676.6	29.82	757.4	32	0.0	74	s.	6	2.7	.....	0	0	.....	.....	0	0	clear	V. Verge.
Fort Davis, Texas	25.23	640.8	30.02	762.5	27	— 2.8	80	n.	1	0.4	.....	0	0	.....	.....	0.01	0.3	clear	J. Williams.
Fort Elliott, Texas	27.40	695.9	30.18	766.6	26	— 3.3	56	nw.	4	1.8	.....	0	0	.....	.....	inap.	inap.	clear	W. J. Cundall.
Fort Gibson, Indian T'y	29.67	753.6	30.25	768.3	44.4	6.9	83	calm	0	0	.....	0	6 ks	.....	e.	inap.	inap.	fair	J. B. Campbell.
Fort Grant, Arizona	25.27	641.8	30.00	762.0	35	1.7	44	sw.	2	0.9	.....	0	0	.....	.....	0	0	clear	T. J. Mackowan.
Fort Keogh, Montana	27.33	694.2	29.87	758.7	30	2.2	64	se.	5	2.2	.....	1 c	0	.....	.....	0	0	clear	W. B. Stockman.
Fort Macon, North Carolina	29.95	760.7	29.96	761.0	54	12.2	93	nw.	19	8.5	.....	hz.	hz.	calm	calm	0	0	light haze	L. Leonardy.
Fort McKavett, Texas	27.98	710.7	30.24	768.1	32	0.0	62	sw.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. E. Thatcher.
Fort Missoula, Montana	26.53	673.8	29.84	757.9	46	7.8	71	nw.	3	1.3	.....	.....	10 ks	.....	sw.	0	0	cloudy	J. H. Jones.
Fort St. Michaels, Alaska	30.01	762.2	30.04	763.0	18	— 7.8	100	s.	10	4.5	.....	0	8 s	.....	s.	inap.	inap.	fair	A. P. Leavitt.
Fort Shaw, Montana	26.13	663.7	29.80	756.9	48	8.9	58	sw.	20	8.9	.....	10 cs	0	.....	.....	0	0	cloudy	A. L. Mathews.
Fort Sill, Indian Territory	29.01	736.8	30.25	768.3	41.5	5.3	77	nw.	1	0.4	.....	10 ck	0	nw.	.....	0	0	cloudy	T. Cleary.
Fort Stevenson, Dakota	28.74	714.7	30.04	763.0	30	— 1.1	88	se.	8	3.6	.....	0	0	.....	.....	0	0	clear	W. Burrows
Fort Verde, Arizona	.....	.....	.....	.....	34.9	1.6	56	n.	.....	.....	1	0	0	.....	.....	0	0	clear	D. Brooks.
Fort Washakie, Wyoming	24.35	618.5	.....	.....	31.0	— 0.6	74	w.	7	3.1	.....	0	0	.....	.....	0.02	0.5	clear	T. M. Ambler.
Fredericksburg, Texas	28.46	722.9	30.18	766.6	39	3.9	92	nw.	4	1.8	.....	0	0	.....	.....	0	0	clear	H. S. Miles.
Galveston, Texas	30.12	765.0	30.16	766.1	*54	12.2	74	n.	26	11.6	.....	3 c	0	n.	.....	0	0	clear	E. O'C. MacInernev.
Grand Haven, Michigan	29.51	749.5	30.20	767.1	34.5	1.4	62	n.	4	1.8	.....	0	0	.....	.....	0.07	1.8	clear	W. A. Reid.
Hatteras, North Carolina	29.95	760.7	29.97	761.2	52	11.1	93	ne.	32	14.3	.....	9 k	0	ne.	.....	0	0	clear	R. M. Crawford.
Helena, Montana	25.60	650.2	29.86	758.4	45	7.2	63	sw.	12	5.4	.....	.....	10 s	sw.	0	0.04	1.0	cloudy	N. C. Smith.
Henrietta, Texas	29 29	744.0	30.32	770.1	30.0	2.2	61	n.	5	2.2	.....	0	0	.....	.....	0	0	cloudy	J. W. Byram.
Huron, Dakota	28.74	730.0	30.19	766.8	29.3	— 1.5	70	s.	4	1.8	.....	0	0	.....	.....	0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.35	745.5	30.17	766.3	37.5	3.1	55	n.	5	2.2	.....	0	hz.	.....	calm	0	0	clear	O. Schutze
Indianola, Texas	30.16	766.1	30.19	766.8	51.2	10.7	72	n.	31	13.9	.....	7 ck	2 ks	sw.	n.	0	0	cloudy	I. A. Reed.
Jacksboro, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. P. Sherry.
Jacksonville, Florida	29.90	759.4	29.94	760.5	67	19.4	90	ne.	3	1.3	.....	.....	10 s	.....	.....	0	0	cloudy	J. W. Smith.
Keokuk, Iowa	29.53	750.0	30.20	767.1	39.0	3.9	86	calm	0	0	.....	0	hz.	.....	.....	0	0	dense haze	F. Z. Gosewisch
Key West, Florida	29.94	760.5	29.96	761.0	78.0	25.6	85	s.	12	5.4	.....	8 cs	fg.	sw.	.....	inap.	inap.	cloudy	L. M. Melbourne.
Kittyhawk, North Carolina	30.00	762.0	30.02	762.5	46	7.8	96	ne.	29	13.0	.....	.....	10 s	.....	.....	0.30	7.6	cloudy	E. A. Beals.
Knoxville, Tennessee	29 08	738.6	30.12	765.0	43.3	6.3	80	n.	7	3.1	.....	.....	10 s	.....	.....	0	0	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.40	746.7	30.20	767.1	37	2.8	61	sw.	2	0.9	.....	0	0	.....	.....	0	0	clear	S. C. Emery.
La Mesilla, New Mexico	26.25	666.7	30.13	765.3	26.7	— 2.9	59	calm	0	0	.....	0	0	.....	.....	0	0	clear	N. D. Lane.
Leavenworth, Kansas	29 33	745.0	30.24	768.1	43	6.1	68	nw.	1	0.4	.....	.....	10 s	.....	.....	0	0	cloudy	A. W. Browne.
Lewiston, Idaho	29.10	739.1	29.95	760.7	51	10.6	69	w.	9	4.0	.....	0	8 ks	.....	w.	0.03	0.8	cloudy	W. Blake.
Little Rock, Arkansas	29.89	759.2	30.21	767.3	45	7.2	83	nw.	2	0.9	.....	0	0	.....	.....	0	0	clear	W. U. Simmons.
Los Angeles, California	29.68	753.9	30.08	764.0	50.2	10.1	100	calm	0	0	.....	.....	fg.	.....	calm	0	0	dense fog	E. F. Kubel.
Louisville, Kentucky	29.58	751.3	30.15	765.8	42	5.6	65	n.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	H. G. Smyth.
Lynchburg, Virginia	29.38	746.2	30.09	764 3	45.0	7.2	82	ne.	2	0.9	.....	.....	10 n	.....	ne.	0.06	1.5	light rain	W. R. Bushby.
Madison, Wisconsin	29.16	740.7	30.20	767.1	34	1.1	78	s.	5	2.2	.....	3 c	0	w.	.....	0	0	fair	C. A. Shaw.
Marquette, Michigan	29.46	748.3	30.21	767.3	34	1.1	72	nw.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. Gilligan.
Mason, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	P. M. Wilson.
Memphis, Tennessee	29.85	758.2	30.19	766.8	46	7'8	83	nw.	4	1.8	.....	0	0	.....	.....	inap.	inap.	clear	D. T. Flannery.
Milwaukee, Wisconsin	29.44	747.8	30.21	767.3	35	1.7	69	nw.	3	1.3	.....	3 c	sk.	.....	.....	0	0	dense smoke	W. Line.
Mobile, Alabama	30.01	762.2	30.05	763.3	56	13.3	77	n.	11	4.9	.....	0	1 ks	.....	n.	inap.	inap.	clear	J. D. Paxton.

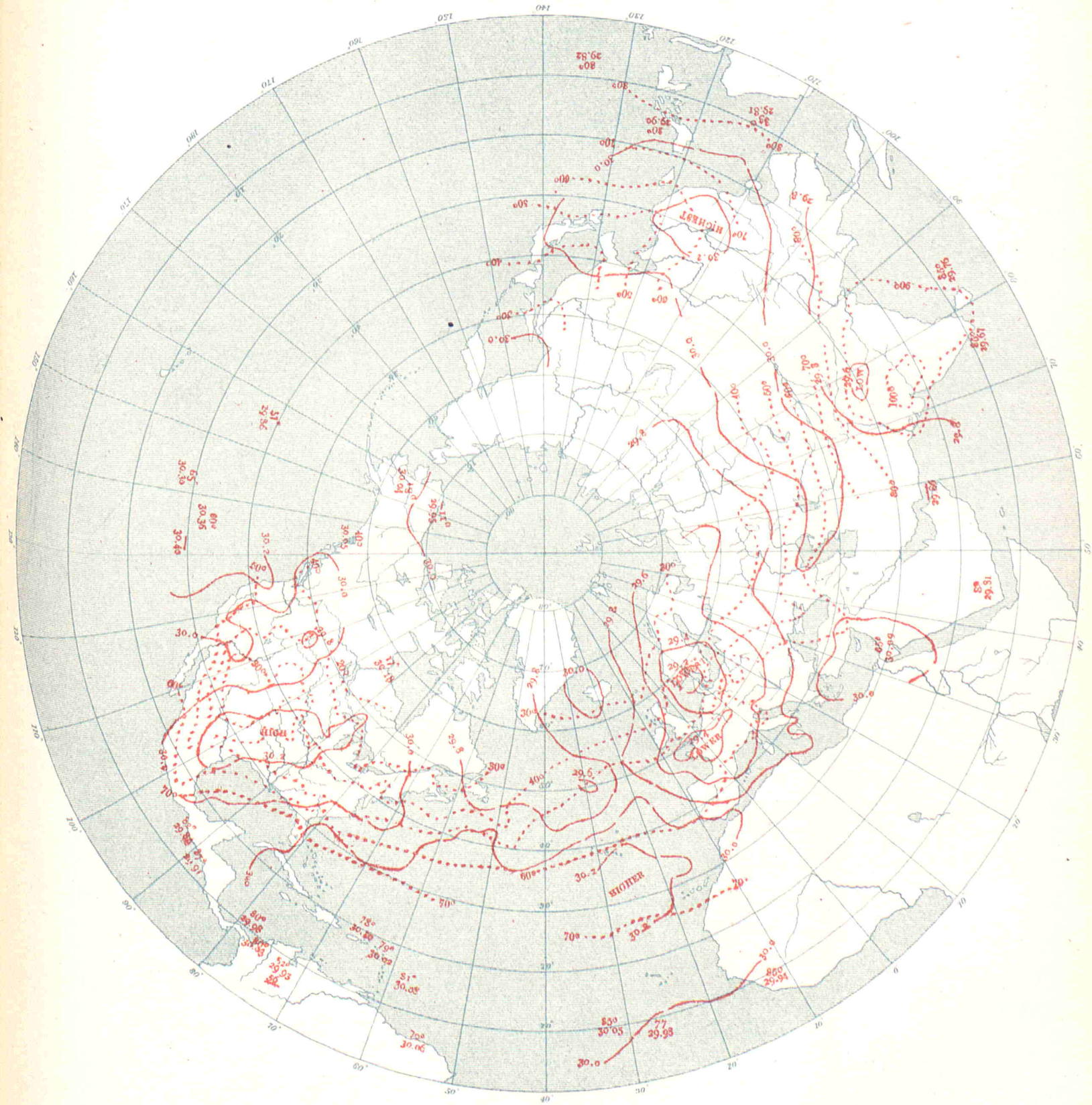
STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind.		Clouds. Direction.		Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Montgomery, Alabama	29.82	757.4	30.05	763.3	54	12.2	86	n.	7	3.1		0	8 ks		w.	0.31	7.9	cloudy	J. B. McLaughlin.
Moorhead, Minnesota	29.13	739.9	30.16	766.1	35	1.7	79	calm	0	0		0	0			0	0	clear	H. Bessant.
Morgantown, W. Virginia	29.10	739.1	30.14	765.5	42.0	5.6	72	ne.	4	1.8			10 s			0	0	cloudy	G. C. Lewis.
Mt. Washington, N. H.	23.56	598.4	29.97	761.2	15.0	—9.4	89	nw.	12	5.4		1 c	0	nw.		0	0	clear	J. G. Llusley.
Nashville, Tennessee	29.61	752.1	30.15	765.8	43.0	6.1	68	n.	1	0.4		0	hz.			0	0	clear	L. A. Jesunofsky.
New Haven, Connecticut	29.97	761.2	30.09	764.3	38	3.3	61	n.	4	1.8			10 s		w.	0	0	cloudy	J. H. Sherman.
New London, Connecticut	30.04	763.0	30.09	764.3	42	5.6	65	nw.	8	3.6		4 k	4 s	w.	nw.	0	0	cloudy	J. G. Lynch.
New Orleans, Louisiana	30.01	762.2	30.07	763.8	58.5	14.7	68	n.	11	4.9		1 c	hz.	w.		0	0	clear	S. Dunne.
Newport, Rhode Island	30.00	762.0	30.05	763.3	39.3	4.1	59	w.	11	4.9		0	1 s		calm	0	0	clear	W. McGillivray.
New River, N. Carolina					52	11.1	100	n.			1		fg.			0	0	dense fog.	C. C. Corbin.
New Shoreham, Rhode I'd.	30.03	762.7	30.06	763.5	39.8	4.3	57	n.	16	7.2		0	1 s		n.	0	0	clear	W. Davis.
New York, New York	29.93	760.2	30.11	764.8	40	4.4	73	w.	5	2.2		0	0			0	0	clear	E. B. Garriott.
Norfolk, Virginia	30.03	762.7	30.06	763.5	49	9.4	77	ne.	5	2.2			10 n		sw.	0.24	6.1	light rain	J. T. Elker.
North Platte, Nebraska	27.18	690.4	30.14	765.5	29.6	—1.3	78	calm	0	0		0	0			0	0	clear	E. F. Brady.
Olympia, Washington T'y	30.04	763.0	30.08	764.0	41.0	5.0	82	sw.	8	3.6			10 n		w.	0.50	12.7	light rain	J. Dascomb.
Omaha, Nebraska	29.03	737.3	30.24	768.1	40.7	4.8	68	calm	0	0			10s;sk		sw.	0	0	cloudy	A. Pollak.
Ogglaamie, Pt. Barrow, Alas.	29.93	760.2	29.95	760.7	—11.4	—24.1	75	ese.	8	3.6		2 cs	8 s			0	0	cloudy	P. H. Ray.
Oswego, New York	29.76	755.9	30.10	764.5	38.5	3.6	60	nw.	5	2.2			10 s		nw.	0	0	cloudy	S. W. Beall.
Palestine, Texas	29.66	753.4	30.22	767.6	47.0	8.3	86	n.	8	3.6		5 ck	0			0	0	fair	L. M. Pindell.
Pensacola, Florida	29.98	761.5	30.01	762.2	59.4	15.2	84	n.	10	4.5		0	7 s		nw.	0.32	8.1	fair	M. McGauran.
Philadelphia, Pa	30.02	762.5	30.12	765.0	46	7.8	60	n.	3	1.3		8 ck	hz.	w.		0	0	cloudy	T. F. Townsend.
Pike's Peak, Colorado	17.53	445.3	29.81	757.2	— 3	—19.4	89	nw.	11	4.9		0	0			0.03	0.8	clear	L. M. Dey.
Ploche, Nevada	24.06	611.1	30.05	763.3	35	1.7	53	s.	2	0.9		2 k	0	calm		0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.30	744.2	30.12	765.0	39.0	3.9	65	n.	6	2.7			10 n		ne.	inap.	inap.	light snow	J. H. Bryce.
Port Eads, Louisiana	30.03	762.7	30.04	763.0	63.5	17.5	92	n.	24	10.7			10 s		n.	0.45	11.4	cloudy	H. G. Christian.
Port Huron, Michigan	29.46	748.3	30.16	766.1	34.2	1.2	74	calm	0	0		0	0			inap.	inap.	clear	W. O. Bailey.
Portland, Maine	29.92	760.0	29.97	761.2	39.0	3.9	54	nw.	5	2.2		0	0			0	0	clear	D. O. Murphy.
Portland, Oregon	30.07	763.8	30.14	765.5	43.2	6.2	83	w.	2	0.9		0	3 s		calm	0.52	13.2	clear	M. L. Hearne.
Portsmouth, N. Carolina					52	11.1	72	ne.	36	16.1			10 ks		ne.	0	0	cloudy	F. P. Chaffee.
Prescott, Arizona	24.78	629.4	30.00	762.0	30	— 1.1	54	s.	1	0.4		0	0			0.03	0.8	clear	J. McN. Wright.
Provincetown, Mass	30.00	762.0	30.03	762.7	39	3.9	73	sw.	7	3.1		0	1 s			0	0	clear	P. T. Jenkins.
Punta Rassa, Florida	29.93	760.2	29.94	760.5	77.5	25.3	86	s.	10	4.5			10 ks		s.	inap.	inap.	threatening	W. J. Evans.
Red Bluff, California	29.66	753.4	30.03	762.7	54.3	12.4	43	nw.	9	4.0		0	0			0	0	clear	J. M. Frants.
Rio Grande City, Texas	30.05	763.3	30.29	769.4	58	14.4	42	n.	8	3.6			10 s		n.	0	0	cloudy	W. H. Taylor.
Rochester, New York	29.44	747.8	30.13	765.3	32	0.0	78	w.	6	2.7		8 cs	hz.	nw.		0	0	cloudy	A. T. Sherwood.
Roseburg, Oregon	29.67	753.6	30.23	767.8	44.5	6.9	80	sw.	1	0.4		0	8 s		sw.	inap.	inap.	cloudy	J. J. Nanry.
Sacramento, California	29.93	760.2	30.01	762.2	52.2	11.2	86	se.	2	0.9		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.59	751.6	30.20	767.1	40.0	4.4	82	nw.	3	1.3		hz	0			inap.	inap.	clear	J. H. Webber.
St. Paul, Minnesota	29.27	743.4	30.16	766.1	35.0	1.7	79	calm	0	0		0	0			0	0	clear	P. F. Lyons.
St. Vincent, Minnesota	29.24	742.7	30.15	765.8	22	— 5.6	88	s.	3	1.3		0	0			0	0	clear	G. Kingsbury.
Salt Lake City, Utah	25.58	649.7	29.95	760.7	39.2	4.0	52	e.	4	1.8		0	0			0	0	clear	J. Craig.
San Antonio, Texas	25.52	749.8	30.22	767.6	42.6	5.9	74	n.	3	1.3		2 c	0			0	0	clear	E. Lane.
San Diego, California	29.95	760.7	30.02	762.5	56.3	13.5	88	e.	4	1.8			10 s			0	0	cloudy	A. O. Dobbins.
Sandusky, Ohio	29.47	748.5	30.17	766.3	40.2	4.6	65	nw.	1	0.4			10 s			0	0	cloudy	M. H. Perry.
Sandy Hook, New Jersey	30.07	763.8	30.11	764.8	41.0	5.0	73	nw.	9	4.0		3 ck	hz.	nw.	calm	0	0	clear	B. A. Blundon.
San Francisco, California	30.04	763.0	30.10	764.5	50	10.0	89	w.	9	4.0		0	0			0	0	clear	N. Gorom.
Santa Fé, New Mexico	23.21	589.5	29.97	761.2	25	— 3.9	67	ne.	3	1.3		0	0			inap.	inap.	clear	H. U. Jones.
Savannah, Georgia	29.88	758.9	29.97	761.2	61	16.1	87	nw.	1	0.4		2 c	7 ks	w.	s.	0	0	cloudy	H. W. Ford.
Shreveport, Louisiana	29.97	761.2	30.21	767.3	47	8.3	86	n.	3	1.3		4 ck	0	n.		0	0	fair	E. N. Meekins.
Silver City, New Mexico	24.28	616.7	29.96	761.0	25	— 3.9	76	s.	2	0.9		0	0			0	0	clear	J. B. Wallace.
Sitka, Alaska	29.99	761.7	30.05	763.3	39.6	4.2	78	se.	5	2.2		0	0			0	0	clear	J. J. McLean.
Smithville, North Carolina	29.92	760.0	29.96	761.0	60	15.6	100	ne.	3	1.3			10 s		sw.	0	0	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	27.86	707.6	29.92	760.0	43.6	6.4	94	sw.	9	4.0		10 k	0			0.14	3.6	clear	D. Moore.
Springfield, Illinois	29.52	749 8	30.22	767.6	42	5.6	65	calm	0	0		0	4 ks		w.	inap.	inap.	fair	T. B. Jennings.
Springfield, Massachusetts	29.95	760.7	30.08	764.0	40.0	4.4	57	nw.	5	2.2		9 k	0	w.		0	0	cloudy	T. S. Outram.
Springfield, Mo	28.77	730.7	30.29	769.4	40	4.4	65	n.	3	1.3		2 cs	0	w.		0	0	clear	J. B. Marbury.
Stockton, Texas	27.19	690.6	30.22	767.6	25.5	— 3.6	88	s.	4	1.8		0	0			inap.	inap.	clear	J. O'Dowd.
Thatcher's Island, Mass	29.94	760.5	29.99	761.7	40.3	4.6	73	nw.	10	4.5		0	0			0	0	clear	G. Liebmann.
Toledo, Ohio	29.44	747 8	30.15	765.8	39.5	4.2	67	calm	0	0		0	sk.			0	0	clear	A. Buell.
Tucson, Arizona	27.89	700.8	29.98	761.5	49	9.4	52	se.	4	1.8		0	0			0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.69	754.1	30.06	763.5	43.0	6.1	71	w.	8	3.6		0	2 s			0.11	2.8	clear	J. Daly.
Uvalde, Texas	29.28	743.7	30.25	768.3	43	6.1	68	n.	3	1.3		0	0			0	0	clear	E. C. Imlay.
Vicksburg, Mississippi	29.88	758.9	30.14	765.5	49	9.4	56	ne.	3	1.3		0	0			0	0	clear	T. J. Kenan.
Visalia, California	29.62	752.3	29.99	761.7	50.5	10.3	75	e.	4	1.8		0	0			0	0	clear	J. T. Cochran.
Washington, D. C.	30.02	762.5	30.14	765.5	44	6.7	68	n.	3	1.3			10 s		n.	0	0	cloudy	B. M. Purssell.
West Las Animas, Colorado	26.10	662.9	30.06	763.5	19	— 7.2	68	calm	0	0		0	0			0	0	clear	J. Grover.
Wickenburg, Arizona																			H. A. Kremp.
Williamsport, Pa	29.51	749.5	30.12	765.0	38	3.3	75	w.	1	0.4			10 ks		nw.	0	0	cloudy	B. F. Hough.
Wilmington, N. Carolina	29.97	759.7	29.97	761.2	57	13.9	86	ne.	4	1.8			10s;hz			0	0	cloudy	E. W. Mc4ann.
Winnemucca, Nevada	25.51	647.9	29.91	759.7	48	8.9	58	sw.	6	2.7			10 ks		sw.	0	0	cloudy	J. R. Williams.
Yankton, Dakota	28.85	732.8	30.19	766.8	34	1.1	78	calm	0	0		0	0			0	0	clear	J. H. Atfield.
Yuma, Arizona	29.82	757.4	29.97	761.2	55.0	12.8	62	nw.	2	0.9		0	0			0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.05	560.1			56.0	13.3	94	e.	4.8	2.1		0	5ks;s			0	0	fair	Joaquin Gomez.
Bridgetown, Barbados, W.I.	30.07	763.8	30.08	764.0	81	27.2	82	e.				5 k	5 s	e.	e.	0	0	fair	J. A. Racker.
Buenaventura, U. S. C.																			J. I. Plume.
Guadeloupe, W. I.	29.90	759.4	29.92	760.0	79	26.1	87	e.				0	2 ks			0	0	clear	B. Bigar.
Havana, Cuba, W. I.	29.96	761.0	30.01	762.2	80	26.7	82	se.	2.4	1.1		5 cs	0			0	0	fair	A. Van Caneghem.
Kingston, Jamaica, W. I.	30.04	763.0	30.05	763.3	75.0	23.9	79	n.	1	0.4		0	2 s		e.	0	0	fine	Robert Johnston.
Navassa, W. I.																			F. M. Everett.
Paramaribo, S. A.	30.06	763.5	30.06	763.5	79	26.1	82	e			2	4 c	5 k	e.	e.	0	0	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.47	748.5	29.93	760.2	82	27.8	80	calm			0		10 s		calm	0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.							94	se.			2		10 ks		se.	0	0	cloudy	Earl Flint.
Santiago de Cuba, W. I.	30.00	762.0	30.03	762.7	77	25.0	81	calm	0	0		0	2 s		sw.	0	0	fair	Robert Mason.
York Factory, B. A.	30.13	765.3	30.18	766.6	17.0	— 8.3	92	n.	10	4.5		1 c	0	n.		0	0	fair	W. Wood.

STATIONS AND VESSELS.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
BRITISH NAVAL.																		
H. M. S. Alert, Mahe, Seychelles Islands	29.81	757.2	88	31.1	70	s.	.....	.....	1	.....	5	.....	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Alexandra, Malta, Mediterranean	29.90	759.4	68	20.0	74	sse.	.....	.....	3	.....	1	.....	.....	.....	.....	.....	.....	squally.
H. M. S. Bacchante, Haifa Bay, Palestine	30.10	764.5	60	15.6	76	calm	.....	.....	0	.....	1	nw.	.....	.....	.....	.....	.....	blue sky.
H. M. S. Cleopatra, N. 7° 52′ E. 76° 01′	29.78	756.4	81.5	27.5	91	ene.	.....	.....	1	.....	6	calm	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Comus, Pelew Island, Oceania	29.82	757.4	80	26.7	95	ene.	.....	.....	2-3	.....	5	ne.	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Diamond, S 36° 12′, E. 138° 18′	30.16	766.1	59	15.0	87	ssw.	.....	.....	2-3	.....	3	.....	.....	.....	.....	1	ssw.	d. clouds.
H. M. S. Dido, N. 17° 00′, W. 61° 45′	30.13	765.3	79	26.1	.....	se.	.....	.....	2	.....	3	ene.	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Druid, N. 20° 58′, W. 73° 41′	30.04	763.0	77.5	25.3	90	e.	.....	.....	1	.....	3	e.	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Dryad, N. 23° 37′, E. 58° 36′	29.76	755.9	.....	.....	.....	se.	.....	.....	1	.....	4	sse.	.....	.....	.....	1	se.	d. clouds.
H. M. S. Eclipse, S. 11° 41′, E. 43° 17′	.....	.....	83	28.3	95	s.	.....	.....	2	.....	3	.....	.....	.....	.....	2	wsw.	d. clouds.
H. M. S. Espiegle, Adelaide, South Australia	30.07	763.8	60	15.6	82	sw.	.....	.....	3	.....	0	.....	.....	.....	.....	.....	.....	blue sky.
H. M. S. Fawn, N. 15° 04′, E. 42° 14′	29.85	758.2	79.5	26.4	78	nw.	.....	.....	1	.....	2	nw.	.....	.....	.....	.....	nw.	d. clouds.
H. M. S. Gannet, S. 29° 45′, W. 72° 00′	30.06	763.5	58	14.4	81	e.	.....	.....	2	.....	10	.....	.....	.....	.....	3	ssw.	overcast.
H. M. S. Garnet, Montevideo, Uruguay	30.31	769.9	59	15.0	64	ssw.	.....	.....	2	.....	0	.....	.....	.....	.....	.....	.....	blue sky.
H. M. S. Inconstant, S. 34° 45′ E. 23° 30′	29.96	761.0	69	20.6	95	sw.	.....	.....	3	.....	3	w.	.....	.....	.....	3	sw.	d. clouds.
H. M. S. Iron Duke, N. 22° 16′, E. 114° 10′	30.05	763.3	67	19.4	94	e.	.....	.....	1	.....	5	e.	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Lark, S. 10° 17′, E. 161° 37′	29.86	758.4	81.3	27.4	.....	calm	.....	.....	0	.....	4	.....	.....	.....	.....	.....	.....	showery.
H. M. S. Liffey, Coquimbo, Chili	30.07	763.8	58	14.4	.....	e.	.....	.....	1	.....	8	.....	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Magpie, N. 35° 25′, E. 139° 43′	29.94	760.5	48.5	9.2	92	nnw.	.....	.....	2-3	.....	10	.....	.....	.....	.....	1	ne.	showery.
H. M. S. Malabar, N. 21° 14′ E. 38° 00′	29.97	761.2	77	25.0	82	n.	.....	.....	5	.....	4	n.	.....	.....	.....	4	n.	d. clouds.
H. M. S. Nelson, Sydney, N. S. Wales	29.94	760.5	73	22.8	81	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	blue sky.
H. M. S. Northampton, Bermuda, W. I.	30.00	762.0	67.5	19.7	84	ne.	.....	.....	2	.....	5	ene.	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Orontes, N. 37° 04′, E. 1° 30′	29.78	756.4	64.5	18.1	85	sw.	.....	.....	6	.....	3	wsw.	.....	.....	.....	5	sw.	squally.
H. M. S. Pegasus, N. 7° 37′, E. 110° 44′	29.81	757.2	83	28.3	83	ne.	.....	.....	3	.....	0	.....	.....	.....	.....	2	ne	blue sky.
H. M. S. Rambler, St. Paul de Loando, Benguela	29.85	758.2	81	27.2	95	w.	.....	.....	1	.....	4	.....	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Rocket, Esquimalt, Vancouver Island, B. C.	29.92	760.0	40	4.4	.....	wsw.	.....	.....	3-5	.....	8	.....	.....	.....	.....	.....	.....	squally.
H. M. S. Superb, N. 39° 38′, E. 19° 45′*	30.11	764.8	64	17.8	55	e.	.....	.....	2-3	.....	1	ene.	.....	.....	.....	.....	.....	blue sky.
H. M. S. Tamar, N. 37° 03′, E. 2° 19′	29.80	756.9	67.5	19.7	64	wsw.	.....	.....	0	.....	3	.....	.....	.....	.....	5	wsw.	squally.
H. M. S. Triumph, S. 29° 52′, W. 71° 40′	30.05	763.3	58	14.4	81	calm	.....	.....	0	.....	10	calm	.....	.....	.....	2	se.	misty.
H. M. S. Tyne, N. 7° 44′, E. 75° 50′	29.67	753.6	85	29.4	75	nw.	.....	.....	2-3	.....	2	.....	.....	.....	.....	2	nw.	d. clouds.
PORTUGUESE NAVAL.																		
Rio Lima, Bulawa, Senegambia	30.02	762.5	80.4	26.9	78	sw.	.....	.....	1	.....	0	.....	.....	.....	.....	.....	.....	blue sky.
Tamega, Macao, China	30.13	765.2	69.8	21.0	75	ese.	.....	.....	3	.....	0	.....	.....	.....	.....	.....	.....	blue sky.
UNITED STATES NAVAL.																		
Navy Yard, Pensacola, Fla	29.92	760.0	59	15.0	88	n.	11	4.9	.....	.....	10	.....	n.	0.23	5.8	.....	.....	cloudy.
Naval Hospital, Portsmouth, N. H.	30.02	762.5	37	2.8	62	nw.	4	1.8	.....	.....	0	.....	.....	0	0	.....	.....	clear.
Naval Hospital, Yokohama, Japan	29.76	755.9	45.5	7.5	92	ne.	.....	.....	4	.....	10	.....	n.	0.34	8.6	.....	.....	raining.
Adams, N. 8° 38′, W. 84° 39′	29.69	754.1	84	28.9	83	nnw.	.....	.....	1	.....	5	.....	sw.	sli't	sli't	sm'h	.....	cloudy.
Alaska, N. 6° 27′ W. 79° 52′	29.88	758.9	78	25.6	91	wnw.	.....	.....	1	.....	10	.....	n.	0	0	sm'h	.....	cloudy.
Alert, Kobe, Japan*	29.88	758.9	50	10.0	58	nnw.	.....	.....	3	.....	0	.....	.....	0	0	sm'h	.....	clear.
Alliance, N. 20° 25′ W. 93° 30′	29.89	759.2	78	25.6	95	wnw.	.....	.....	3	.....	8	.....	n.	light	light	long	nw.	cloudy.
Ashuelot, Kobe, Japan	30.02	762.5	52	11.1	27	nnw.	.....	.....	4	.....	0	.....	.....	.....	.....	.....	.....	clear.
Brooklyn, Montevideo, Uruguay	30.31	769.9	59	15.0	65	sw.	7	3.1	.....	.....	0	.....	.....	0	0	sm'h	.....	clear.
Colorado, New York, N. Y.	30.07	763.8	42	5.6	74	nw.	8	3.6	.....	.....	0	.....	.....	0	0	.....	.....	hazy.
Essex, S. 6° 17′, W. 20° 13′	29.93	760.2	80	26.7	78	se.	.....	.....	4	.....	2	.....	se.	.....	.....	mod.	se.	clear.
Franklin, Norfolk, Va.	30.03	762.7	48	8.9	85	ene.	5	2.2	.....	.....	10	.....	w.	0.21	5.3	.....	.....	raining.
Galena, Leghorn, Italy	29.58	751.3	63	17.2	94	s.	.....	.....	5	.....	2	.....	sw.	.....	.....	r'gh	ssw.	threatening
Independence, Mare Island, Cal.	29.92	760.0	53	11.7	93	sw.	.....	.....	5	.....	0	.....	.....	0	0	.....	.....	clear.
Kearsage, N. 22° 16′, W. 69° 40′	30.09	764.3	77	25.0	82	se.	.....	.....	2	.....	2	.....	.....	.....	.....	sm'h	.....	fair.
Lackawanna, Callao, Peru*	29.87	758.7	64	17.8	94	n.	.....	.....	1	.....	2	.....	.....	.....	.....	.....	.....	clear.
Lancaster, Leghorn, Italy*	29.68	753.9	64	17.8	89	sse.	.....	.....	3	.....	5	.....	n.	.....	.....	.....	.....	fair.
Marion, S. 27° 30′, E. 5° 44′	30.15	765.8	69	20.6	80	sse.	.....	.....	2	.....	10	.....	s.	0	0	mod.	.....	cloudy.
Michigan, Erie, Pa	30.08	764.0	35	1.7	80	nw.	.....	.....	1	.....	8	.....	sse.	0	0	long	sse.	cloudy.
Minnesota, Newport, R. I.	30.06	763.5	40	4.4	64	nnw.	5	2.2	.....	.....	2	.....	w.	.....	.....	.....	.....	fair.
Monocacy, Kobe Japan	30.07	763.8	48	8.9	70	nnw.	.....	.....	2	.....	0	.....	.....	.....	.....	.....	.....	clear.
New Hampshire, Newport, R. I.	30.02	762.5	45	7.2	92	nw.	.....	.....	3	.....	0	.....	.....	.....	.....	.....	.....	clear.
Nipsic, Marseilles, France	29.46	748.3	64	17.8	62	sse.	.....	.....	4	.....	8	.....	.....	.....	.....	sm'h	.....	d. clouds.
Onward, Callao, Peru†	30.06	763.5	64	17.8	94	calm	.....	.....	0	.....	5	.....	n.	.....	.....	long	w.	fair.
Palos, Kobe, Japan	30.05	763.3	46	7.8	54	nnw.	.....	.....	4	.....	0	.....	.....	.....	.....	.....	.....	clear.
Passaic, Washington, D. C.	30.17	766.3	44	6.7	60	ne.	.....	.....	1	.....	10	.....	calm	.....	.....	.....	.....	cloudy.
Pensacola, Callao, Peru	30.00	762.0	66	18.9	89	calm	0	0	.....	.....	5	.....	nw.	0	0	sm'h	.....	foggy.
Powhatan, Port Royal, S. C.	30.02	762.5	77	25.0	91	nnw.	.....	.....	1	.....	2	.....	.....	.....	.....	.....	.....	fair.
Portsmouth, Newport, R. I.	30.03	762.7	39	3.9	100	nnw.	.....	.....	3	.....	0	.....	.....	.....	.....	sm'h	.....	clear.
Quinnebaug, Leghorn, Italy	29.58	751.3	64	17.8	78	sse.	.....	.....	6	.....	5	.....	s.	sli't	sli't	r'gh	s.	squally.
Ranger, Tynpan Point, Mexico*	29.89	759.2	74	23.3	76	nw.	.....	.....	2	.....	2	.....	calm	0	0	sm'h	.....	clear.
Richmond, Kobe, Japan*	29.99	761.7	49	9.4	57	nnw.	.....	.....	3	.....	1	.....	calm	0	0	.....	.....	clear.
Shenandoah, Aspinwall, Panama*	29.98	761.5	80	26.7	87	n.	.....	.....	3	.....	5?	.....	n.	.....	.....	sm'h	.....	clear ?
St. Louis, League Island, Pa	30.36	771.1	44	6.7	84	calm	0	0	.....	.....	10	.....	.....	0	0	.....	.....	cloudy.
Swatara, Kobe, Japan*	29.89	759.2	50	10.0	52	nnw.	.....	.....	3	.....	0	.....	.....	.....	.....	sm'h	.....	clear.
Tennessee, Port Royal, S. C.	29.98	761.5	64	17.8	100	n.	5	2.2	.....	.....	10	.....	.....	0	0	.....	.....	overcast.
Vandalia, Port Royal, S. C†	30.18	766.6	63	17.2	89	ene.	.....	.....	2	.....	10	.....	nw.	.....	.....	.....	.....	rainy.
Wabash, Boston, Mass.	30.02	762.5	38	3.3	63	w.	8	3.6	.....	.....	8	.....	w.	0	0	.....	.....	hazy.
Wachusetts, Sitka, Alaska	29.94	760.5	38	3.3	90	ne.	.....	.....	1	.....	0	.....	.....	.....	.....	.....	.....	clear.
Wyoming, Port Royal, S. C.	29.91	759.7	61	16.1	88	nnw.	4	1.8	.....	.....	10	.....	nw.	.....	.....	.....	.....	raining.
Yantic, Off Port Royal, S. C.*	29.92	760.0	64	17.8	89	nnw.	.....	.....	2	.....	8	.....	.....	.....	.....	.....	.....	fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Nova Scotian, Halifax, N. S.	29.80	756.9	32	0.0		nnw.			2		0							clear.
S. S. Polynesian, Liverpool, Eng*	29.36	745.7	40	4.4		ene.			3		10		e.	4 h'r	4 h'r			overcast.
S. S. Waldensian, N. 42° 12′, W. 61° 42′*	30.06	763.5	39	3.9		nw.			3		8		wnw.	0	0	light	wnw.	fine.
AMERICAN STEAMSHIP COMPANY.																		
S. S. Illinois, N. 46° 21′, W. 56° 45′	29.90	759.4	55	12.8	93	w.			5		2		wsw.			sm'h	w.	clear.
S. S. Indiana, N. 39° 46′, W. 62° 36′†	30.07	763.8	57	13.9	83	w.			6		8		wnw.	sh'rs	shr's	mod.	w.	cloudy.
S. S. Ohio, N. 49° 57′, W. 17° 45′†	29.91	759.7	54	12.2	86	nne.			2		2		nne.			mod.	nne.	clear.
ANCHOR LINE.																		
S. S. Assyria, N. 44° 36′, W. 63° 30′*†	30.00	762.0	46	7.8		wsw.			4		1		w.	0	0	sm'h		clear.
S. S. Ethiopia, N. 53° 13′, W. 10° 06′	29.75	755.6	45	7.2	84	ne.			4		3		ene.	3 h'r	3 h'r	h'vy	ne.	clear.
S. S. Galatia, London, England.†	29.39	746.5				sw.			2		3		sw.	6 h'r	6 h'r			heavy rain.
S. S. India, Port Said, Suez Canal	30.09	764.3	65	18.3	86	w.			4		2							fair.
ATLAS LINE.																		
S. S. Alsa, N. 37° 19′, W. 74° 13′†	30.07	763.8	44	6.7	84	e.			2		10		se.	0	0	mod.	ese.	overcast.
S. S. Alvo, Savanilla, U. S. C.	29.90	759.4				ene.			7		2		ene.	0	0			fair.
S. S. Arden, Kingston, Jamaica, W. I.						ene.			1		2		ne.					fine.
S. S. Athos, N. 26° 10′, W. 74° 05′	29.68	753.9				wnw.			1		2		w.	0	0	sm'h		clear.
S. S. Claribel, N. 17° 50′, W. 76° 35′*†	30.14	765.5	80	26.7	91	se.			2		4		calm	0	0	sm'h		fine.
BOSTON AND HALIFAX LINE.																		
S. S. Carroll, Boston, Mass†	29.79	756.7				nw.			2					0	0			clear.
BRITISH METEOROLOGICAL OFFICE.																		
S. S. Arran, S. 11° 20′, W. 26° 56′	29.97	761.2	81.5	27.5	70	sse.			5		5							d. clouds.
Baroda, N. 5° 59′ E. 83° 04′	29.76	755.9	85.4	29.7	86	ne.			3		6							misty.
British Merchant, S. 9° 13′ E. 88° 07′	29.73	755.1	82.8	28.2	79	se.			3		5							showery.
Bk. Commewyne, N. 54° 00′, W. 14° 50′	29.75	755.6	56.8	13.8	54	ne.			3		6							d. clouds.
S. S. Gordon Castle, N. 25° 10′ E. 119° 39′	30.11	764.8	59.2	15.1	76	ne.			6–7		2							d. clouds.
CROMWELL LINE.																		
S. S. Hudson, N. 28° 13′, W. 79° 40′†	30.02	762.5	78	25.6		n.			4		10		ne.	0	0	mod.	ne.	overcast.
CUNARD LINE.																		
S. S. Parthia, N. 40° 57′, W. 55° 34′†	29.94	760.5				var.			1		5		s.	0	0	sm'h		fine.
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. Canada, N. 49° 40′, W. 4° 10′	29.28	743.7	57.2	14.0		sse.			3		8		s.	light	light	sm'h		raining.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Gellert, N. 41° 30′, W. 51° 00′	29.92	760.0	52	11.1		wsw.			3		10		w.	0	0	mod.	w.	fair.
S. S. Lessing, N. 40° 07′, W. 63° 32′	29.98	761.6	43	6.1		nw.			4		10		nw.	0	0	sm'h	nw.	cloudy.
S. S. Silesia, N. 40° 25′, W. 72° 02′*†	30.12	765.0	38.5	3.6		nw.			4		0			0	0			very fine.
INMAN LINE.																		
S. S. City of New York, N. 41° 26′, W. 55° 26′	29.98	761.5				nw.			3		3		nnw.	0	0	mod.	wnw.	clear.
JOHNSTON LINE.																		
S. S. Thanemore, N. 41° 32′, W. 49° 06′	29.98	761.5				n.			1		2		w.	0	0	slight	sw.	clear.
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, N. 28° —′, W. 21° —′*†	30.41	772.4	68	20.0		ne.			3		9		ne.	0	0	sm'h		cloudy.
S. S. Humboldt, N. 9° 16′, W. 27° 39′*	29.98	761.5	77.2	25.1	82	nne.			3		5			0	0	2	ne.	d. clouds.
LEYLAND LINE.																		
S. S. Iberian, N. 51° 17′, W. 13° 09′	29.66	753.4				ne.			4		2		nne.	2 h'r	2 h'r	high	nne.	
MALLORY LINE.																		
S. S. Colorado, N. 27° 07′, W. 87° 53′†	29.88	758.9	70	21.1		ne.			3		10		ne.	9 h'r	9 h'r	high	se.	cloudy.
MERCHANTS' EXPRESS LINE.																		
S. S. Freja, Off Scilly Islands, Eng†	29.32	744.7	54	12.2	93	w.			4		5?		nw.	3 h'r	3 h'r	mod.	w.	clear.†
S. S. Hermod, N. 40° 35′, W. 68° 10′.*†	29.72	754.9	46.4	8.0		w.			2		4		w.	0	0	mod.	w.	clear.
NATIONAL LINE.																		
S. S. Canada, N. 48° 44′, W. 14° 30′†	29.73	755.1	55	12.8		n.			2		10		nnw.	0	0		e.	squally.
S. S. England, Liverpool, Eng.	29.23	742.4				sw.			2		5?			0	0			clear.†
S. S. Erin, London, England	29.41	747.0	59	15.0		n.			6		9		nne.	0	0			
S. S. Helvetia, N. 44° 24′, W. 41° 37′	29.84	757.9	50	10.0		nw.			3		4		wnw.	rain	rain	light	wsw.	fine.
S. S. Italy, N. 46° 50′, W. 57° 54′	29.99	761.7				w.			4		8		w.	3 h'r	3 h'r	long	wsw.	cloudy.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Niagara, N. 31° 32′, W. 79° 24′†	30.00	762.0	72	22.2		nne.			1		8		ne.	0	0	mod.	ne.	overcast.
S. S. Santiago, N. 26° 36′, W. 74° 12′†	30.02	762.5	76	24.4		ssw.			2		1			0	0	small	n.	fine.
NEW YORK HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, Havana, Cuba, W. I.†	30.08	764.0	78	25.6		se.			4		2		se.	0	0			clear.
S. S. City of Puebla, N. 19° 50′, W. 95° 40′†	29.93	760.2	68	20.0		nw.			8		10		nw.			hv'y	nw.	
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Atlas, Jeremie, Hayti, W. I.*†	30.13	765.3	81	27.2		calm			0									clear.
S. S. New York, N. 26° 50′, W. 85° 10′*†	29.95	760.7	74	23.3		e.			3									con.
S. S. P. Caland, N. 41° 53′ W. 65° 30′	29.93	760.2	48.2	9.0		w.			2									thnd'r st'rm
S. S. W. A. Scholton, N. 41° 19′ W. 57° 16′	29.79	756.7	53.4	11.9		n.			3									fine.
NORTH GERMAN LLOYD.																		rainy.
S. S. Elbe, N. 49° 19′, W. 15° 20′	29.75	755.6	51.8	11.0	60	nnw.			6		0			0	0	r'gh	n.	fair.
S. S. Graf Bismarck, N. 20° 30′, W. 22° 32′	30.18	766.6	72.5	22.5		nne.			6		2		nne.	0	0	mod.	nne.	clear.
S. S. Hermann, N. 40° 27′, W. 53° 10′†	29.93	760.2	51.8	11.0		wnw.			4		5		s.	10 h'r	10 h'r	mod.	wnw.	fair.
S. S. Hohenzollern, N. 31° 14′, W. 18° 35′*	30.20	767.1	59.0	15.0		nne.			4		7		ne.	0	0	mod.	n.	fair.
S. S. Koln, N. 43° 36′, W. 43° 13′	29.84	757.9	53.0	11.7	67	n.			5		8		n.	13 h'r	13 h'r	long	ne.	cloudy.
S. S. Kronprinz F. Wilhelm, N. 52° 04′, E. 2° 49′	29.44	747.8	48.2	9.0		nw.			3		10			0	0	2	nw.	cloudy.
S. S. Leipzig, N. 46° 03′, W. 33° 50′	29.67	753.6	53.0	11.7	?	n.			1		10		n.	11 h'r	11 h'r	cross	w.	hazy.
S. S. Main, N. 40° 40′, W. 55° 00′	29.97	761.2	53.6	12.0		calm			0		3		ne.	0	0	sm'h	ne.	clear.
S. S. Neckar, N. 46° 50′ W. 30° 22′	29.66	753.4	57.2	14.0		ssw.			4		10		ssw.	light	light	mod.	ssw.	drizzling.
S. S. Nurnburg, N. 49° 42′, W. 6° 59′*	29.40	749.7	53.6	12.0		nne.			5		10		nne.	0	0	long	w.	cloudy.
S. S. Oder, N. 48° 01′, W. 27° 40′	29.65	753.1	53.6	12.0		sw.			5		9		sw.	rain	rain	mod.	sw.	misty.
S. S. Ohio, N. 37° 17′, W. 70° 21′	30.11	764.8				nne.			3		10		se.	3⅛ h'r	3⅛ hr	sm'h	n.	cloudy.
S. S. Salier, N. 43° 08′, W. 57° 00′	29.95	760.7	47.3	8.5		wnw.			3		2		wnw.	0	0	mod.	wnw.	clear.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Belgic, San Francisco, Cal†	30.04	763.0	50	10.0	86	w.			3		0			0	0	sm'h		clear.
S. S. Oceanic, N. 28° 13′, E. 123° 07′*	30.12	765.0	55	12.8	74	ne.			4		4		ne.; sw.			3	n.	fine.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, Savannah, Ga†	29.93	760.2				calm			0		8		wnw.	0	0			smoky.
S. S. Seminole, N. 38° 50′, W. 73° 50′†	30.17	766.3	47	8.3	62	ene.			4		10		e.	0	0	sm'h	wnw.	cloudy.
OREGON IMPROVEMENT COMPANY.																		
S. S. Mississippi, N. 44° 22′, W. 124° 41′†	30.30	769.6	45	7.2	84	wnw.			3		5		nw.			mod.	nw.	fair.
S. S. Willamette, Seattle, Wash. Ter.*†	30.12	765.0	45	7.2	76	ese.			3		5?		se.	0	0			cloudy.†
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. City of Chester, Fort Wrangle, Alaska*†	30.08	764.0	42	5.6	91	calm			0		1		ne.			sm'h		clear.
S. S. Oregon, San Francisco, Cal.†	30.07	763.8	49	9.4	85	calm			0		5?		sw.					clear.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, San Francisco, Cal†	30.06	763.5	49	9.4	93	calm			0		0							clear.
S. S. Idaho, San Francisco, Cal.†	30.10	764.5	48	8.9	63	s.			3		0							clear.
S. S. State of California, Astoria, Oregon †	30.11	764.8	43	6.1	75	w.			4		5							squally.
S. S. Victoria, New Westminster, B.C.	29.94	760.5	46	7.8	100	n.			1		10		sw.					drizzling.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, Sydney, N. S. W.	30.00	762.0	64	17.8	73	calm			0		0							clear.
S. S. City of New York, Sydney, N. S. W.†	30.05	763.3	70	21.1	100	e.			1		1		e.	0	0			clear.
S. S. City of Pekin, N. 12° 05′, W. 87° 50′†	29.91	759.7	82	27.8	83	nw.			5		2					sm'h		hazy.
S. S. City of Rio de Janeiro, N. 14° 20′, W. 91° 54′*†	30.04	763.0	82	27.8	83	nne.			1		10		nne.			sm'h	sw.	dense haze.
S. S. City of Sydney, N. 31° 38′, W. 138° 26′†	30.36	771.1	60	15.6	82	e.			3		8		e.	0	0	long	ne.	misty.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.			Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Amount and kind.		Direction.						
								Force.	Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
Pacific Mail Steamship Company.—Continued.																		
S. S. City of Tokio, N. 36° 25′, W. 158° 07′†	29.86	758.4	57	13.9	87	sw.			4		5		sw.	20 h'r	20 h'r	mod.	ssw.	fair.
S. S. Clyde, N. 7° 05′, W. 80° 35′†	29.93	760.2	81	27.2	87	wnw.			2		8		nw.	0	0	light	sw.	cloudy.
S. S. Colon, Aspinwall, Panama†	29.96	761.0	78	25.6		nne.			2		5		ne.	0	0	sm'h		fair.
S. S. South Carolina, Panama, Panama†	30.03	762.7	80	26.7	87	calm			0		5		var.	0	0	sm'h		fine.
S. S. Zelandia, N. 29° 39′, W. 140° 46′	30.30	769.6	65	18.3	84	ene.			3		8		ene.			mod.	ne.	cloudy.
Quebec S. S. Company.																		
S. S. Muriel, Trinidad, W. I.	30.04	763.0	80	26.7		e.			2		0			0	0	sm'h		fair.
Red Star Line.																		
S. S. Belgenland, Antwerp, Belgium†	29.39	746 5	49	9.4	93	sw.			6		47		sw.	3 h'r	3 h'r			overcast?
S. S. Nederland, N. 40° 12′, W. 63° 38′*†	30.64	778.2	40	4.4		w.			1		8		w.	0	0	sm'h	w.	cloudy.
S. S. Rhynland, N. 46° 42′ W. 32° 31′	29.69	754.1	53	11.7	80	w.			2		10		w.	0.3	8.	long	wsw.	cloudy.
S. S. Switzerland, N. 44° 39′, W. 36° 57′†	29.75	755.6				n.			3		10		nw.	14 h'r	14 h'r	cross	ne. s.	cloudy.
S. S. Vaderland, Antwerp, Belgium	29.45	748.0	58	14.4	88	wsw.			2		0			0	0	sm'h		clear.
S. S. Waesland, Jersey City, N. J. *	30.06	763.5	43	6.1		wnw.			3		0			0	0			clear.
Rotterdam Line.																		
S. S. Schiedam, New York, N. Y.*	30.05	763.3	46.0	7.8	75	nw.			4		5		nw.	0	0			fair.
State Line.																		
S. S. State of Florida. N. 51° 59′ W. 21° 17′	29.83	757.7	51	10.6		se.			3		10			0	0	mod.	n.	cloudy.
S. S State of Indiana, N. 41° 20′, W. 62° 40′†	29.84	757.9	43	6.1		n.			1		2		n.	0	0	sm'h	nw.	clear.
Thingvalla Line.																		
S. S. Thingvalla, N. 58° 52′ W. 0° 45′†	29.61	752.1	42.8	6.0		n.			5		6		n.	10 h'r	10 h'r	r'gh	n.	covered.
Warren Line.																		
S. S. Iowa, N. 41° 58′ W. 53° 09′*†	30.10	764.5	47	8.3		nw.			2		9		nw.	0	0	sm'h		cloudy.
White Cross Line.																		
S. S. Hermann, N. 40° 03′, W. 54° 33′†	30.01	762.2				ese.			1		9 k		wsw.	9 h'r	9 h'r	mod.	sw.	cloudy.
White Star Line.																		
S. S. Adriatic, Ballycottin, Ireland†	29.59	751.6	46	7.8		nne.			6		2		nne.	0	0	sm'h		d. clouds.
S. S Celtic, N. 49° 25′ W. 27° 17′†	29.58	751.3	53	11.7		sw.			5		10		w.	24 h'r	24 h'r	mod.	wsw.	rainy.
Wilson Line.																		
S. S. Romano, N. 41° 42′ W. 56° 44′*†	29.79	756.7	45	7.2		wnw.					3		nw.	0	0	mod.	nw.	clear.
S. S. Salerno, N. 50° 35 W. 0° 44′*	29.36	745.7	48.2	9.0	96	calm			0		10					sm'h		foggy.
Winsor Line.																		
S. S. Catherine Whiting, Point Judith, R. I.†	30.12	765.0				nw.			1				nw.			sm'h		rainy.
Miscellaneous.																		
Sch. Addie Fuller, N. 29° 50′, W. 80° 02′†	30.07	763.8	75	23.9	81	s.			2		10 8		sw.	0	0		n.	cloudy.
Bk. Adelaide, Rio de Janeiro, Brazil*†	30.15	765.8	80	26.7		calm			0									
Schr. Ajax, Mobile, Ala†	30.16	766.1				n.			3		9		n.	0	0			cloudy.
Bk. Alpha, N. 22° 20′, W. 69° 50′†	30.01	762.2	78	25.6		ese.			3		2		se.	0	0	sm'h		fair.
Bk. Antioch, S. 37° 20′ W. 4° 35′*†	29.75	755.6	65	18.3		n.			5		10		nw.	3 h'r	3 h'r	sm'h	wsw.	rainy.
Schr. Asa Eldridge, Key W. st, Fla†	29.96	761.0				s.			4		8		s.	0	0			threatening
Bk. Aureola, N. 8° 39′, W. 30° 26′*†	30.15	765.8	85	29.4		ne.			5		5		ne.	0	0	mod.	ne.	fair.
Sch'r Annie M. Smull, S. 42° 00′ E. 36° 11′*†	29.80	756.9	58	14.4		nw.							w.	0	0			
Bkt. Carrie Heckle, N. 22° 27′, W. 72° 01′*†.	30.20	767.1	78	25.6		se.			4		2		se.	0	0	sm'h	se.	clear.
Bk. Celestina, S. 27° 43′, W. 42° 45′*†	30.12	765.0				sw.			3		2		s.	0	0	mod	s.	clear.
Bk. Champion, N. 42° 07′ W. 42° 07′†	29.96	761.0				nw.			2		10		ne.	8 h'r	8 h'r	long	wnw.	
S. S. Compton, N. 35° 25′, W 75° 04′†	29.96	761.0				n.			5		10		n.	0	0	short	nne.	misty.
Dora, N. 25° 20′, W. 79° 50′†	30.05	763.3	77.5	25.3		ssw.			4		8		sw.	0	0	mod	n.	cloudy.
Bk. E. L. Pettengill, N. 28° 28′ W 133° 30′†	30.40	772.1				ne.			4		5		ne.	sh'rs	sh'rs	sm'h	ene.	d. clouds.
S. Enoch Train, N. 45° 05′, W. 36° 20′*	29.64	752.8				n.			4		10		n.	h'vy	h'vy	short	sw.	showery.
S. Exporter, N 14° 00′, W. 29° 20′*†	30.25	768.3				e.			5		1		e.	0	0	sm'h		fine.
Ship Festina Lente, N. 43° 20′, W. 47° 46′*	29.98	761.5	40	4.4		w.			1		1			0	0	mod.	ssw.	clear.
U. S. F. C. S. FishHawk, Quantico, Va.†	30.22	767.6	50	10.0	78	nne.			3		10		calm	0	0			cloudy.
S. Grecian, S. 40° 10′, W. 4° 15′*†	29.70	754.4	59	15.0		wnw.			4		10		w.	2 h'r	2 h'r	sm'h	w.	clearing.
Bk. Freya, N. 37° 53′, W. 51° 48′			59	15.0		nne.			3		2		ne.	7 h'r	7 h'r	mod.	ssw.	fair.
Bk. Granville, S. 35° 30′, E. 24° 10′*†	30.12	765.0				n.			1				n.	0	0	long	wsw.	clear.
Bk. Hattie G. McFarland, Baltimore, Md*†	30.18	766.6	60	15.6		ne.			1		4		w.	0	0			fair.
Schr. Henry Denison, Port Antonio, Jamaica, W. I†	30.02	762.5				ene.			1–3		2		ene.	0	0			fine.
S. Hedwig, N. 42° 06′, W 46° 52′	29.95	760.8	45.5	7.5	85	nw.			5		4		wsw.	14 h'r	14 h'r	4	ssw.	fine.
Schr. John L. Thomas, N. 19° 38′ W. 74° 05′*†	30.16	766.1				nne.					2		ese.	0	0			fine.
Bg. John Wesley, Sagua la Grande, Cuba, W. I.†	29.93	760.2	80	26.7		wsw			1		0			0	0			clear.
Bk. Jona, N. 40° 09′ W. 45° 08′*†	30.11	764.8				n.			1		8		nw	8 h'r	8 h'r	cross	var.	clearing.
Bk. Josephine, Aspinwall, Panama*†	30.04	763.0	83	28.3	74	ne.			4		2		ne.	0	0			fair.
S. Lake Erie, N. 40° 40′ W. 54° 14′	29.92	760.0				w.			2		3		w.	0	0	mod.	w.	clear.
Bk. Liberia, N. 21° 37′, W. 25° 23′*†	30.20	767.1	74	23.3	76	ene.			5		2		ene.	0	0	long	nw.	fine.
Light House Tender, Laurel, Key West, Florida†	29.98	761.5	79	26.1		ssw.			2		1		sw.	0	0			clear.
Schr. Maggie Abbott, N. 26° —′ W. 69° —′*†	30.00	762.0				ssw.								rain	rain	h'vy	w.	cloudy.
S. S. Malabar, N. 37° 15′ E. 2° 41′*†	29.76	755.9				W.			6					0	0	h'vy	w.	clear.
Bg. Medina, Key Francis. Fla.†	30.11	764.8				sse.			1		5		se.					fine.
S. S. Nebo, Santos, Brazil*†	30.00	762.0				e.			1		10		e.	8 h'r	8 h'r			cloudy.
S. S. New York, N. 38° 44′ E. 2° 21′*†	30.45	773.4				wsw.			3				wsw.	0	0	long	nw.	fair.
Bk. Peppina, N. 45° 47′, W. 2° 24′†	29.39	746.5	53	11.7	86	nw.			3		5?		nw.			r'gh	nw.	cloudy?
S. S. Radnorshire, N. 44° 43′ W. 19° 55′*†	29.96	761.0				nne.			2		5		nne.	0	0	long	n.	fine.
S. Salisbury, N. 10° 02′, W. 32° 08′*	30.10	764.4	78.8	26.0	81	ne.			4		4		ne.	0	0	mod	ne.	fair.
Schr. S. B. Hubbard, New London, Conn*†	30.08	764.0	40	4.4		n.			1		5		n.	0	0			fine.
Bkt. Spotless, S. 3° 55′ W. 30° 33′																		cloudy.
Bk. Stella, S. 49° 28′, W. 80° 00′*	30.03	762.7	46.9	8.3	95	wnw.			5		8		w.	0	0	hv'y	sse.	overcast.
S. S. Victoria J. Peed, Barranquilla, U. S. C.*†	29.12	739.6				se.			1		4					mod	w.	
Washington, N. 36° 53′, W 62° 55′*†	30.00	762.0				nw.			4		0			0	0	sm'h	nw.	clear.
Bg. Wauburn, S. 2° 00′ W. 35° 10′†	30.00	762.0				calm												heavy rain.
S. Wm. Woodbury, N. 43° 12′, W. 38° 44′*†	29.62	752.3	60	15.6		ne.			2				w.			cross	wsw.	cloudy.

International Chart I. April 15, 1882. Isobars and Isotherms.



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS ·

TAKEN SIMULTANEOUSLY ON APRIL 16, 1882,

7 A. M., Washington Mean Time.

STATIONS.	BAROMETER. Corrected for instrumental error and for temperature. Inch.	BAROMETER. Corrected for instrumental error and for temperature. Mill.	BAROMETER. Reduced to sea-level. Inch.	BAROMETER. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	WIND. Direction. From.	WIND. Velocity. Miles p. hr.	WIND. Velocity. Mtrs. p. sec	WIND. Force. 0–10	CLOUDS. Amount and kind. Upper. 0–10	CLOUDS. Amount and kind. Lower. 0–10	CLOUDS. Direction. Upper. From.	CLOUDS. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
ALGERIAN.																			
Nemours			30.00	764.3	69.1	20.6	80	nnw.			5		1			0	0	very fair	Moiroud.
Algiers			29.96	760.9	63.0	17.2	72	w.			7		9			0.205	5.2	covered	Nicolas.
La Calle			29.90	759.5	59.7	15.4	81	nw.			4		7			0.118	3.0	very cloudy	Fonfréde.
Tunis			29.89	759.2															Jacques.
Saida			30.11	764.8	54.0	12.2	59	nw.			6		6			0.154	3.9	very cloudy	Dumas.
Tebessa			30.02	762.5	51.8	11.0	77	sw.			2		2			c	0	fair	Derché.
Geriville					56.8	13.8	32	n.			4		5			0	0	very cloudy	Lonchamp.
Laghouat			30.09	764.3	57.2	14.0	59	w.			4		3			0	0	pretty fair	Abraham.
Biskra			30.09	764.3	72.7	22.6	34	wnw.			5		3			0	0	pretty fair	Malau.
AUSTRALIAN.																			
Melbourne, Victoria	29.91	759.7	30.00	762.0	55.0	12.8	86	w.	6	2.7			10			0.03	0.8	dull	R. L. J. Ellery.
AUSTRO-HUNGARIAN.																			
Agram	29.10	739.0	29.63	752.6	60.8	16.0	73	sw.			5		6			0.181	4.6	raining	Prof. Ivan Stozir.
Cracow, I. R Observatory	28.74	730.1	29.48	748.9	63.0	17.2	52	w.	9.8	4.4			7			0.039	1.0		Dr. Wierzbiski.
Eperies	28.67	728.1	29.51	749.6	64.0	17.8	44	s.			3		10 ks		n.	0	0		Julius Mikolik.
Gratz	28.32	719.4	29.53	750.1	61.9	16.6	43	e.			2		3			0	0		Andreas Rospini.
Hermannstadt	28.25	717.6	29.60	751.7	74.7	23.7	29	ssw.			5		10			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.30	718.9	29.61	752.1	58.3	14.6	54	nw.			1		3			0	0		The Staff.
Lemberg	28.57	725.6	29.52	749.7	64.0	17.8	49	s.			5		6			0	0		Dr. T. Stanecki.
Pola	29.59	751.5	29.70	754.3	64.6	18.1	70	s.			2		5			0.142	3.6		I. R. Hydrographic Office.
Szathmar	29.17	740.9	29.63	752.7	62.2	16.8	55	sw.			3		10			0.028	0.7		Joseph Midlinszky, S. J.
Szegedin	29.38	746.3	29.66	753.4	54.5	12.5	90	calm			0		10			0.055	1.4		Karl Stancel.
Trieste	29.57	751.0	29.67	753.6	61.9	16.6	68	calm			0		6			0.035	0.9		Rieder.
Vienna	28.88	733.5	29.58	751.3	59.9	15.5	48	w.			4		9			0.035	0.9		I. R. Central Met. Obs'y.
BRITISH.																			
Aberdeen	29.52	749.8	29.62	752.3	32.0	0.0	83	wnw.	10	4.5			10			0.520	13.2	snowing	W. Boswell.
Armagh, Observatory	29.39	746.5	29.63	752.6	46.9	8.3	55	sw.	19	8.5									S. Call.
Bidston, Liverpool Obs'y			29.72	754.9	49.1	9.5	50	sw.	14	6.3			8					overcast	John Hartnup.
Bolton, Sharples	29.18	741.2	29.72	754.9	43.9	6.6	62	ssw.	12	5.4			9					overcast	Thomas Mackereth. [A.S.
Bradford, Yorkshire																0	0		J. McLandsborough, F. R
Bridgetown, Barbadoes	29.99	761.7	30.02	762.5	84.0	28.9	58	ne.			2		3					d clouds	Corpl. J. Surgenor, A. H. C.
Cardington			29.77	756.1	51.0	10.6	53	s.			0.6		8					overcast	John McLaren.
Chatham, School M. E.	29.66	753.4	29.79	756.7	49.5	9.7	61	ne.			1		5					d. clouds	Lance Cpl. G. A. Pickles.
Falmouth, Observatory	29.52	749.8	29.74	755.4	47.4	8.6	74	se.			3		10					overcast	The Staff.
Fort Napier, Natal	27.61	701.3	29.83	757.7	83.2	28.4	35	se.			1		0					blue sky	Pvt. E. K. Annis, A. H. C.
Free Town, Sierra Leone	29.67	753.6	29.90	759.4	89.0	31.7	63	sw.			1		2					d. clouds	Sergt. John Robinson.
Gibraltar, Mediterranean	30.02	762.5	30.07	763.8	68.5	20.3	74	w.			3		3					blue sky	Cpl. O. Baldwin.
Glasgow, Observatory	29.31	744.5	29.51	749.5	44.3	6.8	64	wsw.			6		6 k					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.62	752.3	29.80	756.9	49.4	9.7	59	e.					3					blue sky	The Staff.
Guernsey	29.48	748.8	29.78	756.4	49.5	9.7	71	se.			1		10					drizzling	A. Collenette, F. M. S.
Kew, Observatory	29.76	755.9	29.79	756.7	50.5	10.3	45	sse.	8	3.6			7					d. clouds	The Staff.
Leicester, Museum	29.26	743.2	29.52	749.8	44.4	6.9	75	ne.			1		5					d. clouds	J. C. Smith.
Malta, Mediterranean	29.65	753.1	29.72	754.9	69.0	20.6	69	n.			3		2					blue sky	I. H. Whysall.
Nassau, Bahamas	30.09	764.3	30.14	765.5	80.0	26.7	84	sw.			1		9					overcast	C. S. Duncombe.
Oscott, St. Mary's College	29.24	742.7	29.77	756.1	47.0	8.3	53	sse.			2		6					d. clouds	John Mac Email.
Oxford, Radcliffe Obs'y	29.55	750.6	29.78	756.4	46.9	8.3	55	se.			1		9					d. clouds	The Staff.
Plymouth	29.67	753.6	29.75	755.6	47.0	8.3	75	se.			4		10					overcast	John Merrifield.
Sandwick Manse, Orkneys			29.52	749.8	37.5	3.1	90	wnw.	20	8.9			1					d. clouds	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.89	759.2	29.96	761.0	67.0	19.4	45	sw.			1		9					misty	W. H. Lyne
Sheffield	29.45	748.0	29.73	755.1	49.9	9.9	49	sw.			2		10			0	0	overcast	W. F. Cooper.
Silloth Rectory	29.63	752.6	29.66	753.4	45.4	7.4	65	w.			4		6			0	0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.72	754.9	46.0	7.8	54	wsw.	16	7.2			8					d. clouds	Rev. S. J. Perry.
Stratfield Turgiss	29.57	751.1	29.79	756.7	50.7	10.4	48	se.			2		7					d. clouds	Rev. C. H. Griffiths, F.M.S.
Truro, Royal Institution	29.68	753.9	29.72	754.9	51	10.6	86	se.			4		7					d. clouds	W. Newcombe.
Valencia, Observatory	29.53	750.0	29.56	750.8	48.1	8.9	77	sse.	34	15.2			10					misty	The Met'g'l Office.
CANADIAN.																			
Bathurst, N. B																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.77	756.1	29.81	757.2	31	− 0.6	74	nw.	2	0.9		0	0			0	0	clear	H. J. Cundall, C. E.
Chatham, N. B*	29.83	757.7	29.90	759.4	28	− 2.2	84	nw.	1	0.4		0	0			0	0	clear	G. A. Blair.
Father Point, Quebec*	29.86	758.4	29.68	758.9	31	− 0.6	96	sw.	14	6.3		0	2 s		calm	0	0	clear	J. McWilliams.
Fort Garry, Manitoba*	29.05	737.9	29.89	759.2	36	2.2	89	s.	15	6.7		hz.	hz.			0	0	hazy	James Stewart.
Halifax, N. S*	29.73	755.1	29.86	758.4	30	− 1.1	100	calm	0	c			fg			0	0	foggy	A. Allison.
Kingston, Ontario*	29.71	754.6	30.06	763.5	33	0.6	68	nw.	2	0.9		0	0			0	0	clear	A. P. Knight, M. A.
Montreal, Quebec*	29.78	756.4	29.99	761.7	39	3.9	62	w.	4	1.8		0	0			0	0	clear	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.40	746.7	30.12	765.0	34	1.1	88	w.	5	2.2		0	0			0	0	clear	Rev. R. Mosley.
Port Dover, Ontario	29.45	748.0	30.17	766.3	32	0.0	90	nw.	3	1.3		0	0			0	0	clear	H. Morgan.
Port Stanley, Ontario	29.49	749.0	30.17	766.3	32	0.0	92	nw.	5	2.2		0	0			0	0	clear	M. Payne.
Quebec, Quebec*	29.64	752.8	29.98	761.5	28	− 2.2	77	nw.			1	0	2 s		nw.	0	0	clear	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.56	750.8	30.04	763.0	27	− 2.8	80	nw.	6	2.7		0	0			0	0	clear	W. H. McIntyre.
Saugeen, Ontario*	29.43	747.5	30.17	766.3	34	1.1	81	sw.	5	2.2		0	0			0	0	clear	
St. Andrews, N. B	29.81	757.2	29.86	758.4	37	2.8	61	nw	3	1.3		0	0			0	0	clear	
Sydney, C. B*	29.77	756.1	29.83	757.7	30	− 1.1	84	calm	0	0		0	0			0	0	clear	T. C. Hill, C. E.
Toronto, Ontario*	29.76	755.9	30.15	765.8	36	2.2	72	nw.	9	4.0		0	0			0	0	clear	Magnetic Observatory.
Yarmouth, N. S*	29.78	756.4	29.85	758.2	35	1.7	92	calm	0	0		2 ck	0	w.		0	0	clear	Lt. F. E. Wilmot, R. N.
Sub-series.																			
St. Johns, Newfoundland																			John Delany.
CAPE COLONY.																			
Cape St. Francis Lt. House	30.00	762.0	30.03	762.7	72.0	22.2	79	w.	8.5	3.8		0	2 s			0	0	clear	John Duthie.
Cape Town, C. G. H. Obs'y	30.02	762.5	30.06	763.5	65.2	18.4	94	nw	12	5.4		8	10			0.120	3.0		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	OBSERVERS.
CHINESE (*Sub-sertes*).																0	0		N. Titoushkin.
Hankow																0	0		
Zi-Ka-Wei, near Shanghai	30.12	765.0	30.14	765.6	48.7	9.3	84	ese.	9.6	4.3			0			0	0	clear	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	29.56	750.7	29.60	751.9	41.7	5.4	46	wnw.	28.0	12.5			2						Oversergent Fischer.
Fanöe	29.65	753.2	29.67	753.7	43.3	6.3	66	w.			6		5						Overloerer Lauridsen.
Godthaab, Greenland	29.46	748.3	29.50	749.4	31.3	— 0.4	66	ne.			2		2						S. Kleinschmidt.
Stykkisholm, Iceland	29.88	758.9	29.92	760.0	21.9	— 5.6	93	e.			6		0						A. O. Thorlacius.
Thorshavn	29.56	750.7	29.59	751.6	35.2	1.8	85	ne.	9	4			8						Overloerer Bergh.
Vestervig	29.44	747.8	29.53	750.1	38.1	3.4	71	wsw.			7		10					snowing	Loearer Oesterboi.
FRENCH.																			
Agen, Normal School	29.28	743.6	29.92	760.0	56.8	13.8	93	n.			1		1c		n.	0.406	10.3	raining	M. Labroue, Director.
Alençon, Normal School	29.26	743.1	29.81	757.1	54.0	12.2	98	n.			3		s	s.	s.	0.12	3.		M. Nicot, Director.
Arras, Engineer School	29.49	749.0	29.75	755.6	47.7	8.7	52	nne.			1		10		ne.	0	0	covered	Capt. Bertrand, Dir.
Avignon, Normal School	29.63	752.6	29.71	754.6	62.8	17.1	57	n.			1		2		nnw.	0.020	0.5	slightly cl'dy	M. Giraud, Director.
Bar-sur-Seine	29.15	740.5	29.71	754.6	50.0	10.0	86	se.			1		10			0.087	2.2	covered	M. Saillard, Director.
Beauvais, Normal School	29.52	749.8	29.79	756.6	48.2	9	54	nne.			2		8		ne.	0.598	15.2	very cloudy	M. Frère Eugène Mari.
Besançon, Normal School	28.77	730.7	29.65	753.2	58.6	14.8	49	s.			1	0	5 k		w.	0.528	13.4	cloudy	M. Gobin, Director.
Bordeaux, Observatory	29.57	751.1	29.83	757.7	55.4	13.0	75	wnw.			1		10			0.157	4.0	covered	M. Rayet, Director.
Bourges, Normal School	29.22	742.1	29.81	757.1	45.9	7.7	90	calm			0					0.28	7.		M. Postel, Director.
Brest, Naval Observatory	29.56	750.8	29.80	757.0	54.3	12.4	80	w.			1		10		w.	0.071	1.8		M. de Kermarec, Dir.
Caen, Normal School	29.72	754.8	29.79	756.6	52.5	11.4	52	nw.			0.5		5		sw.	0.20	5.	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.38	746.3	29.70	754.4	50.0	10.0	74	sw.			1		10			0.780	19.8	covered	M. Jadot, Director.
Charleville, Normal School	29.11	739.5	29.61	752.2	56.5	13.6	54	s.			1		10			0.55	14.	covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.41	721.5	29.76	755.9	50.7	10.4	70	w.			2		10		w.	0.055	1.4	covered	M. Allnard, Director.
Cluny, Normal School	28.85	732.9	29.70	754.3	54.7	12.6	61	sw.			2			sw.		0.335	8.5		M. de Villemontée, Dir.
Commercy, Normal School	28.73	729.7	29.58	751.3	58.1	14.5	58	ssw.			4		5 k	ssw.	ssw.	0.177	4.5	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.15	689.7	29.65	753.2	52.7	11.5	46	s.			4		1		n.	0	0		M. Jeangirard, Director.
Grénsque, du. Rhone	28.58	726.0	29.69	754.0	60.3	15.7	58	n.			2		2		sw.	0	0		M. Kina, Director.
Grenoble, Normal School	28.94	735.1	29.69	754.2	59.9	15.5	57	se.			1	ck	0			0.165	4.2		M. Ablard, Director.
Guéret, Normal School	28.22	716.9	29.80	757.0	52.2	11.2	63	sw.			1		10		n.	0.425	10.8		M. Rivoire, Director.
Lamballe, Normal School	29.54	750.2	29.80	757.0	56.3	13.5	53	ssw.			3		5		ssw.	0.12	3.	foggy	M. Ollitrault, Director.
Lescar, Normal School	29.30	744.2	29.87	758.6	52.9	11.6	73	wnw.			1		10 n			0.28	7.	raining	M. Chauvin, Director.
Lorient, Naval Observatory	29.71	754.5	29.81	757.1	53.2	11.8	97	s.			1		10		s.	0.591	15.0	raining	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.67	728.3	29.72	754.8	55.0	12.8	57	ese.			1	0	8 n		nnw.	0.134	3.4	¾ covered	M. André, Director.
Mans, Normal School	29.51	749.6	29.82	757.5	48.6	9.2	65	nw.			1		10			0.165	4.2	covered	M. Piboen, Director.
Marseille, Observatory	29.43	747.6	29.70	754.4	61.5	16.4	42	w.			2		2		wnw.	0.016	0.4		M. Stephan, Director.
Montlouis l'Instituteur	24.62	625.4	29.47	748.4	45.5	7.5	39	sw.	28.0	12.5			5	s.					M. Oave, for Dr. Fines.
Montpellier, Normal School	29.56	750.8	29.69	754.1	63.3	17.4	52	nw.			4		5 n		w.	0	0	fair	M. Galzin, Director.
Nancy, Normal School	28.85	732.9	29.63	752.7	50.0	10	86	sw.			1		10 n			0	0	covered	M. Hasse, Director
Nantes, Observatory	29.68	753.9	29.84	758.0	55.6	13.1	70	wsw.			0–1		10 kn		wnw.	0.173	4.4		M. Larocque, Director.
Perpignan, Observatory	29.65	753.2	29.76	755.9	61.5	16.4	48	n.	18.6	8.3			7		nw.	0.043	1.1		Dr. Fines, Director.
Pic-du-Midi, Summit	20.97	532.6			20.8	— 6.2		se.			2		10		se.	0.957	24.3	snowy	Gen'l de Nansouty, Dir.
Privas, Normal School	28.65	727.7	29.71	754.6	53.6	12	93	calm			0		10			0	0	covered	M. Tallieu.
Puy de Dôme Obs'y, Summit	24.80	629.9			32.7	0.4	100	wnw.			6		10			0.087	2.2	foggy	M. Allnard, Director.
Rochefort, Naval Obs'y	29.78	756.5	29.82	757.3	62.1	16.7	72	w.			2		8		w.	0.051	1.3	¾ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.58	751 4	29.80	756.9	56.1	13.4	75	nw.			1		10			0	0	covered	M. Mouillot, Director.
Rodez, Normal School	27.58	700.6	29.72	754.9	48.6	9.2	79	nw.			1		1c			0.047	1.2	covered	M. Serger, Director.
Rouen, Normal School	29.74	755.5	29.79	756.7	53.6	12	51	ne.			2		5	nw.		0	0	cloudy	M. Brotier.
Saint Maur, Observatory	29.60	751.9	29.77	756.1	48.7	9.3	71	nne.			2		10		n.	0.610	15.5		M. Renou, Director.
Toulouse, Observatory	29.12	739.6	29.84	757.9	52.5	11.4	85	wnw.			2		8			0.035	0.9	very cloudy	M. Baillaud, Director.
Versailles, Observatory	29.28	743.7	29.77	756.2	49.3	9.6	62	n.			1					0.681	17.3		Dr. A. Bérigny, Director.
Sub-sertes.																			
Paris, Montsouris Obs'y	29.47	748.4	29.76	755.8	48.6	9.2	61	ne.			2		9		nne.	0.598	15.2		M. Marié Davy, Director
GERMAN.																			
Bamberg	28.86	733.1	29.71	754.6	44.6	7.0	70	ne.			4	0	9 ks			0.197	5.0		Prof. Dr. Hoh.
Berlin	29 53	750.0	29.71	754.5	49.6	9.8	36	n.			1		5			0	0		Prof. Dr. Arndt.
Breslau	29.11	739.5	29.64	752.8	42.8	6.0	100	nnw.			3		10					raining	Royal University Obs'y.
Carlsruhe	29.28	743.6	29.71	754.7	48.9	9.4	80	n.			1		10	n.		0.004	0.1		Albert Senz.
Cassel	29.00	736.7	29.72	754.8	68.4?	20.2?	56	n.			2		7	n.		0.035	0.9		Dr. H. Möhl.
Frankfort on the Main	29.36	745.8	29.74	755.3	42.1	5.6	77	nne.			2		10			0.902	22.9		Physical Society.
Friedrichshafen	28.24	717.2	29.65	753.2	57.4	14.1	61	ssw.			1		7	sw.		0	0		Wilhelm, Chief Tel.
Hamburg	29.67	753.5	29.76	755.9	44.6	7.0	49	nnw.			4		3			0.020	0.5		E. Preller.
Kiel	29.71	754.5	29.72	754.9	45.0	7.2	37	w.			5		1			0	0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.31	744.3	29.72	755.0	44.4	6.9	51	n.			2		8	n.		0.181	4.6		H. Leppig, Asst.
Magdeburg	29.54	750.3	29.73	755.1	49.8	9.9	44	nnw.			2	c	5ks	wsw.	nw.	0.004	0.1		Dr. Assmann.
Memel	29.55	750.6	29.60	751.8	43.7	6.5	75	w.			5	6 cs	0						Issernann.
Munich	27.84	707.1	29.68	753.8	57.2	14.0	43	nw.			3		5	n.		0	0		Central Station
Neufahrwasser	29.55	750.6	29.80	757.0	47.3	8.5	41	nw.			4		7			0.024	0.6		A. Lothes.
Neustadt, Palatinate	29.18	741.1	29.70	754.3	45.3	7.4	85	n.			2		10			0.583	14.8		Dicknether.
Stuttgart	28.71	729.3	29.59	751.6	56.3	13.5	63	n.			1		8	w.		0	0		Prof. Dr. Schoder.
Wustrow	29.71	754.5	29.73	755.1	42.8	6.0	57	w.			4	0	0			0	0		Profs. Brandes & Reimer.
GREEK.																			
Athens	29.69	754.1	30.08	763.9	68.0	20.0		s.			3.5	4				0.004	0.1		Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.71	754.6	29.76	755.8	84.9	29.4	58	wsw.	29.0	13.0			0			0	0	blue sky	
Deesa	29.19	741.3	29.63	752.7	105.3	40.7	26	wsw.	9.2	4.1			0			0	0	blue sky	
Bombay	29.64	752.9	29.68	753.8	88.4	31.3	64	nw.	18.0	8.0			0			0	0	blue sky	
Poona, Yarrowda	27.84	707.2	29.61	752.1	102.2	39.0	6	w.	10.0	4.5			0			0	0	blue sky	
Belgaum	27.19	690.6	29.65	753.1	89.5	31.9	46	s.	10.0	4.5			0			0	0	misty	
Lahore	28.84	732.6	29.55	750.7	98.7	37.1	14	w.	2.3	1.0			0			0	0	blue sky	
Roorkee	28.68	728.6	29.54	750.4	98.7	37.1	24	calm	3.4	1.5			1			0	0		
Agra	29.02	737.1	29.56	750.8	102.9	39.4	9	nw.	6.8	3.0			0			0	0		
Nagpur	28.60	726.4	29.59	751.6	102.5	39.2	21	calm	3.6	1.6			0			0	0	blue sky	
Jubbulpore	28.30	718.9	29.60	751.9	99.7	37.6	8	nw.	2.5	1.1			2		w.	0	0	d. clouds	
Lucknow	29.23	742.5	29.59	751.6	99.0	37.2	23	wnw.	3.3	1.5			0			0	0	blue sky	
Allahabad	29.27	743.5	29.57	751.1	99.2	37.3	20	nw.	2.5	1.1			0			0	0	blue sky	
Patna	29.48	748.8	29.66	753.4	93.5	34.2	30	ene.	5.7	2.6			0			0	0	blue sky	
Hazaribagh	27.64	702.0	29.58	751.2	94.6	34.8	12	nw.	5.9	2.6			5		nw.	0	0	misty	
Cuttack	29.61	752.0	29 69	754.0	90.2	32.3	49	s.	3.7	1.6			0			0	0	d. clouds	
Calcutta, Alipore	29.60	751.9	29.62	752.4	86.4	30.2	56	s.	15.0	6.7			10		sw.	0	0	overcast	
Dhubri	29.60	751.9	29.72	754.8	80.4	26.9	60	e.	9.4	4.2			9			0	0	d. clouds	
Chittagong	29.66	753.4	29.75	755.7	78.5	25.8	59	ssw.	4.1	1.8			2			0	0	d. clouds	
Sibsagar	29.52	749.8	29.86	758.4	77.1	25.1	71	e.	3.3	1.5			2			0.02	c.5	blue sky	
Jeypore	28.20	716.1	29.57	751.1	100.9	38.3	11	wnw.	5.6	2.5			0			0	0	blue sky	
Zanzibar, Africa	29.84	757.9			85.2	29.6	68	ssw.	5.8	2.6			6		se.	0.02	0.5	d. clouds	
Bellary	28.22	716.8			99.0	37.2	23	ssw.	3.8	1.7		6 ck	0			0	0	d. clouds	
Trichinopoly	29.48	748.8			96.3	35.7	32	sw.	2	0.9			10			0	0	overcast	
ITALIAN.																			
Udine	29.27	743.4	29.68	753.8	61.3	16.3	73	s.		2.5	1.1		8			1.882	47.8		Prof. Giovanni Clodig.
Milan	29.17	741.0	29.65	753.1	57.6	14.2	72	se.		3.8	1.7		10	se.		0.280	7.1		Prof. Schiaparelli.
Padua	29.54	750.4	29.65	753.2	62.1	16.7	71	s.		3.1	1.4		6	sw.		0.516	13.1		Prof. Dott. Lorenzoni.
Moncalieri	28.76	730.6	29.66	753.4	54.1	12.3	73	e.		4.3	1.9		8	ne.		0.031	0.8		Prof. P. F. Denza.
Genoa	29.48	748.8	29.67	753.6	56.7	13.7	70	se.		9.4	4.2		10	s.		0.516	13.1		Prof. G. M. Garibaldi.
Mondovi	27.75	704.9	29.67	753.5	52.2	11.2	66	nw.			6		2			0.138	3.5		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
ITALIAN.—Continued.																			
Pesaro	29.58	751.4	29.63	752.6	66.9	19.4	66	e.	6.3	2.8			10	w.		0.441	11.2		Prof. Luigi Guidi.
Florence	29.42	747.3	29.67	753.7	62.6	17.0	68	e.			2		9	sw		0.287	7.3		Prof. Costantino Pitter.
Leghorn	29.54	750.3	29.63	752.5	63.5	17.5	70	s.	2.5	1.1			7	s.		0.067	1.7		Prof. P. Monte.
Rome	29.56	750.7	29.73	755.1	64.9	18.3	61	s.	13.6	6.1			7			0.823	20.9		Prof. P. S. Ferrari.
Lecce	29.53	750.1	29.78	756.5	66.9	19.4	60	sse.	37.8	16.9			10			0.024	0.6		Prof. C. de Giorgi.
Cosenza	28.85	732.9	29.74	755.4	70.5	21.4	76	wsw.	3.1	1.4			10	w.		0.039	1.0		Prof. D. Conti.
Cagliari	29.52	749.8	29.72	754.9	57.7	14.3	81	e.			2		10	nw.		0	0		Prof. A. Pacinotti.
Palermo	29.53	750.1	29.78	756.4	65.7	18.7	53	ne.	5.6	2.5			10			0	0		Prof. G. Giacciatore.
Syracuse	29.68	753.9	29.72	755.0	63.1	17.3	79	e.	7.4	3.3			10	sw.		0	0		Prof. Vincenzo Guiliano.
Sub-series.																			
Naples, S. R	29.26	743.2	29.78	756.3	63.1	17.3	66	sw.	0	0			9	ne.		0.067	1.7		Prof. T. Brioschi.
Stelvio	21.83	554.4			33.4	0.8	81	sw.			2		10			0.366	9.3	covered	Prof. P. F. Denza.
Valdobbia	21.86	555.2			34.2	1.2	74	e.			2		10			0.276	7.0	covered	Prof. P. F. Denza.
JAPANESE.																			
Aomori	29.97	761.2	30.01	762.2	39.0	3.9	83	s.	5.9	2.6		0	5 s			0.168	4.3	fair	K. Ogawa.
Hakodate	29.95	760.7	29.96	761.0	36.0	2.2	91	w.	6.0	2.7			6			0	0	cloudy	
Hiroshima, I. M. Obs'y	30.13	765.3	30.14	765.5	47.4	8.6	87	nne.	3.5	1.6		0	0			0	0	clear	K. Sasaki.
Kanazawa	30.06	763.5	30.17	766.3	41.7	5.4	80	sse.	6.6	2.9		0	0			0	0	clear	S. Endo.
Kioto	29.99	761.7	30.17	766.3	43.6	6.4	73	ene.	3.8	1.7		0	0			0	0	clear	M. Tojima.
Kochi	30.17	766.3	30.19	766.8	50.6	10.3	71	nw.	2.0	0.9		0	0			0	0	clear	
Nagasaki, I. M. Obs'y	29.97	761.2	30.18	766.6	50.1	10.1	83	sw.	0.5	0.2		0	2 s			0	0	clear	S. Takehayashi.
Niigata	30.11	764.8	30.14	765.5	46.0	7.8	76	wsw.	3.4	1.5		0	0			0	0		
Nobiru	30.09	764.3	30.11	764.8	39.1	3.9	91	nnw.	1.8	0.8		0	0			0	0	clear	H. Midzushima.
Supporo					37.9	3.3	76	s.	2.4	1.1			8			0.005	0.1	overcast	
Tokei Obs'y, Yeddo	30.10	764.5	30.17	766.3	48.2	9.0	85	sse.	4.9	2.2		0	0			0	0	clear	The Staff.
Wakayama	30.12	765.0	30.17	766.3	46.7	8.2	72	n.	3.3	1.5		0	0			0	0	clear	Y. Kuwamura.
MAURITIUS.																			
Mauritius Observatory	29.78	756.4	29.97	761.2	79.1	26.2	69	ese.	13.0	5.8		ack;cs	4 k;ks	ene.	se.	0.11	2.8	fair	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.66	601.9	29.92	759.9	63 7	17.6	52	w.				0	4 kn		w.	0	0	fair	Vicente Fernandez.
Leon	24.40	619.7	30.06	763.5	59.9	15.5	68	n.			1	6 c	1 s	sw.		0	0	foggy	Prof. M. Leal.
Mazatlan																			F. Quijano, C. E.
Mexico, Central Obs'y	23.14	587.4	30.20	767.1	55.2	12.9	61	calm	0	0		0	1 ks			0	0	fine	The Staff.
Morelia	24.30	617.1	30.44	773.2	58.3	14.6	72	se.			3	2	3	s.	s.	0	0	½ clouded	M. Tena, M. D.
Pabellon, Aguascallentes	23.97	608.7	30.00	762.0	50.7	10.4	68	calm			0	1 c	3 ks	sw.	sw.	0	0	clear	M. Y. de Leon, M. E.
Puebla, Catholic Institute	23.42	594.8	30.14	765.4	56.3	13.5	87	calm	0	0		0	2		sw.	0	0	cloudy	Prof. P. Spina.
San Luis Potosi	24.20	614.7	30.22?	765.6?	53.7	12.1	54	ssw.			1	0	7		w.	0	0	clear	G. Barroeta, M. D.
Zacatecas	22.54	572.5	30.23	767.8	47.3	8.5	62	sw.	16.4	7.3		2 cs	0	sw.		0	0	clear	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.80	756.9	29.80	756.9	51.4	10.8		e.			2					0	0		
Groningen	29.33	744.9	29.78	756.3	45.9	7.7		nw.			1					0	0		
Helder	29.80	756.8	29.80	756.8	43.3	6.3		nnw.			1					0	0		
Hellevoetsluis	29.76	756.0	29.76	756.0	49.5	9.7	56	ne.			2					0	0		
Utrecht	29.74	755.4	29.79	756.6	50.2	10.1	40	ene.			2		5			0.016	0.4	cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.24	742.6	29.30	744.2	34.5	1.4	62	ne.	9	4			9			0.102	2.6	raining	
Brono	29.52	749.4	29.54	750.4	28.8	— 1.8	44	ne.	18	8			3			0	0		
Christiania	29.19	741.4	29.34	745.2	37.4	3.0	50	e.	7	3			8			0.031	0.8		
Gjesvær	29.52	749.9	29.55	750.5	33.3	0.7		nw.			4		10						
Lodingen	29.66	753.4	29.71	754.6	26.4	— 3.1	52	e.			4		0						
PORTUGUESE.																			
Angra, Azores					63.0	17.2	86	sw.	8.7	3.9			5			0	0		Dr. J. A. Sampaio.
Campo Major	29.08	738.5	30.08	763.9	59.7	15.4	53	wnw.	9.8	4.4			8			0.087	2.2		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.17	766.2	30.25	768.4	66.0	18.9	55	sw.					10			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.81	757.2	30.17	766.4	59.0	15.0	49	wnw.	13.6	6.1			3			0	0		The Staff.
Ponta Delgada, Azores	30.13	765.3	30.20	767.1	65.8	18.8	70	sw.	23.0	10.3			3			0	0		
Saint Paul de Loando	29.72	755.0	29.92	760.0	85.6	29.8	78	wnw.	0.7	0.3			9			0	0		
Serra da Estrella	25.25	641.4	30.11	764.7	36.9	2.7	96	wnw.	21.0	9.4			10			0.606	15.4	foggy	
RUSSIAN.																			
Akmolinski	28.79	731.3	29.91	759.6	32.5	0.3	87	ssw.	20	9			9 k;n			0	0		Major K. Lasarew.
Archangel	29.58	751.3	29.60	751.8	27.7	— 2.4	83	wnw.	13	6		0	8 ks			0	0		Capt. Sseliwerstow.
Astrakhan	30.27	768.9	30.19	766.8	52.9	11.6	46	sse.	7	3			0			0	0		Capt. Wisganow.
Barnaul	29.57	751.0	30.08	764.1	37.2	2.9	79	calm	0	0			10			0.004	0.1		Meteorological Obs'y.
Dorpat	29.11	739.4	29.35	745.5	47.1	8.4	76	wsw.	13	6			10 ks			0.083	2.1		Observatory.
Ekaterinburg	28.90	734.0	29.90	759.4	28.9	— 1.7	46	nw.	16	7			9			0	0		Meteorological Obs'y.
Kasan	29.71	754.6	29.99	761.7	37.6	3.1	80	ssw.	16	7			1			0	0		Observatory.
Kertch	29.96	761.0	29.98	761.5	49.5	9.7	80	sse.	4	2		0	7 n			0	0		Lagorio & Sastyres.
Kieff	28.97	735.9	29.58	751.3	69.6	20.9	35	s.	13	6		c	7 k;ks			0.016	0.4	light clouds	Observatory.
Lugan	29.74	755.4	29.95	760.5	67.8	19.9	21	ssw.	22	10			6			0	0		Meteorological Obs'y
Moscow	29.11	739.5	29.59	751.5	50.7	10.4	69	s.	4	2		0	7 ks			0.181	4.6		Meteorological Obs'y.
Nikolaiev	29.78	756.5	29.85	758.3	59.0	15.0	58	s.	45	20		0	0			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor	29.93	760.1	30.01	762.3	25.5	— 3.6	69	calm	0	0			0			0	0		Lieut. Iwanow.
Pekin, China	29.81	757.1	29.95	760.7	66.0	18.9	40	calm	0	0		0	0			0	0		Physical Observatory
St. Petersburg	29.31	744.4	29.32	744.8	45.3	7.4	82	s.	16	7			10 kn			0.075	1.9		Central Physical Obs'y
Ssemipalatinsk	29.34	745.2	30.00	762.1	46.0	7.8	59	calm	0	0		0	8			0	0		Major Lasaren.
Tashkend, Laboratory	28.38	720.9	29.91	759.7	68.5	20.3	71	n.	9	4			0			0	0		Teich, A. M.
Tiflis	28.60	726.3	29.97	761.3	70.5	21.4	14	nw.	18	8		0	3 k			0	0		Physical Observatory
Vladivostok	29.87	758.8	29.94	760.5	33.8	1.0	87	se.	4	2		0	5 k			0	0		
Warsaw	29.08	738.5	29.49	749.1	52.5	11.4	92	calm	0	0			10 n					raining	Astronomical Obs'y
Wilna	29.05	737.9	29.46	748.2	59.5	15.3	60	sw.	4	2			7			0.248	6.3	heavy cl'ds	Berg, Assistant.
Yeniseisk	29.77	756.2	30.06	763.6	41.9	5.5	76	w.	7	3			4			0.004	0.1	raining	M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	29.68	753.8	29.78	756.5	61.2	16.2	60	s.	3.8	1.7			1			0.012	0.3		Antonio Rave, Director.
Bilbao, Met. Obs'y	29.95	760.7	30.01	762.2	58.3	14.6	73	nw.	7.2	3.2			10			0.303	7.7	covered	Prof. Manuel de Naveran:
Burgos, Met. Obs'y	26.99	685.5	29.95	760.8	54.0	12.2	40	e.	13.6	6.1			9			0	0	almost cov'd	Domingo Martin.
Madrid, Royal Obs'y	27.76	705.0	29.98	761.4	57.4	14.1	41	w.	18.6	8.3		0	4			0	0	cloudy	The Staff.
Murcia, Met. Obs'y	29.76	756.0	29.88	758.9	68.0	20.0	44	nw.	6.0	2.7		3	2	se.		0	0	clouds	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.08	738.7	29.98	761.6	55.8	13.2	74	w.	11.9	5.3			10			0.157	4.0	covered	R. Gil Vallanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I	30.02	762.5	30.09	764.2	78.0	25.6	84	wsw.	4.0	1.8		3 c;ck	0	w.		0	0	fair	Benito Vines, S. J.
Manilla, Philippine Islands	29.87	758.8	29.93	760.3	80.9	27.2	67	e.	6.2	2.8			9 kn		e.	0	0	threatening	F. Faura, S. J.
San Fernando, Naval Obs'y	30.07	763.7	30.17	766.2	61.3	16.3	61	w.	11.7	5.3		0	4		wnw.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	30.00	762.0	30.09	764.3	78.4	25.8	87	e.	3.4	1.5		1 s	2 k	e.	e.	0	0	clear	Manuel Maeu.
Tuguegarao, Philippine Id's	29.86	758.4	29.99	761.7	76.0	24.4	76	nnw.	5.7	2.5			10 ks		sw.	0	0	covered	José L. Yrastorza.
SWEDISH																			
Haparanda	29.60	751.9	29.64	752.9	29.8	— 1.2	50	ne.			4		2			0	0		
Umea	29.34	745.1	29.39	746.4	26.6	— 3.0	70	ne.			8		10			0.402	10.2		
Hernosand	29.11	739.5	29.17	740.8	24.6	— 4.1	79	nne.			8		10			0.083	2.1		
Stockholm	28.99	736.4	29.17	740.9	35.6	2.0	82	w.			6		10			0.299	7.6	snowing	
Wisby	29.25	742.9	29.31	744.4	38.8	3 8	73	w.			6		3			0.008	0.2		
Sub-series.																			
Upsala	29.02	737.2	29.11	739.4	32.0	0.0	83	w.	8.7	3.9			10		w.	0.004	0.1	snowing	S. G. Fineman.
SWISS.																			
Geneva	28.29	718.6	29.71	754.6	56.3	13.5	50	se.			1					0.012	0.3	cloudy	The Observatory

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	OBSERVERS.
TURKISH.																			
Constantinople	.....	.....	30.00	762.1	75.2	24.0	55	sw.	7.8	3.5	.....	.....	5	.....	sw.	0	0	.....	The Observatory.
Valona	.....	.....	29.77	756.1	77.5	25.3	.....	s.	.....	.....	4	.....	5	.....	.....	.....	.....	hailing	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	30.23	767.9	66.0	18.9	73	wnw.	.....	.....	1	0	1 ks	.....	w.	0	0	.....	Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	29.98	761.5	30.06	763.5	44	6.7	65	nw.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. O. Barnes.
Alpena, Michigan	29.48	748.8	30.18	766.6	31	— 0.6	57	w.	3	1.3	.....	0	0	.....	.....	0	0	clear	Jas. J. Fitzgerald.
Atlanta, Georgia	28.97	735.8	30.16	766.1	45.0	7.2	60	n.	6	2.7	.....	9 k	0	w.	.....	0	0	cloudy	H. Hall.
Atlantic City, New Jersey	30.10	764.5	30.11	764.8	41.3	5.2	65	nw.	3	1.3	.....	0	0	.....	.....	0	0	clear	Jas. M. Watson.
Augusta, Georgia	29.98	761.5	30.18	766.6	57	13.9	86	ne.	8	3.6	.....	.....	10 s	.....	ne.	0.06	1.5	cloudy	John Healy.
Baltimore, Maryland	30.14	765.5	30.19	766.8	44	6.7	60	nw.	7	3.1	.....	0	c	.....	.....	0	0	clear	Robert Seyboth.
Barnegat, New Jersey	30.07	763.8	30.09	764.3	42.0	5.6	57	nw.	12	5.4	.....	0	0	.....	.....	0	0	clear	Chas. F. Merritt.
Bismarck, Dakota	28.04	712.2	29.91	759.7	35	1.7	82	e.	6	2.7	.....	0	0	.....	.....	0	0	clear	Cyrus Cramer.
Boise City, Idaho	27.20	690.9	30.04	763.0	36	2.2	72	nw.	12	5.4	.....	0	8 s	.....	w.	0.07	1.8	fair	B. E. Light.
Boston, Massachusetts	29.82	757.4	29.98	761.5	39.0	3.9	46	nw.	11	4.9	.....	7 ck	0	.....	.....	0	0	fair	O. B. Cole.
Brownsville, Texas	30.15	765.8	30.20	767.1	56	13.3	86	ne.	4	1.8	.....	10 cs	0	.....	.....	0	0	cloudy	J. C. Galloway.
Buffalo, New York	29.39	746.5	30.16	766.1	37	2.8	65	sw.	4	1.8	.....	.....	0	.....	.....	inap.	inap.	clear	Wm. Finn.
Burlington, Vermont	29.71	754.6	30.01	762.2	41.0	5.0	65	calm	0	0	.....	0	0	.....	.....	0	0	clear	G. C. Schaeffer.
Cairo, Illinois	29.90	759.4	30.31	769.9	44.3	6.8	81	e.	1	0.4	.....	8 k	0	sw.	.....	0	0	cloudy	W. H. Clendenon.
Campo, California	27.36	694.9	29.94	760.5	43.5	6.4	83	sw.	4	1.8	.....	.....	10 s	.....	sw.	0	0	cloudy	W. H. Clendenon.
Camp Thomas, Arizona	27.11	688.6	29.84	757.9	42	5.6	65	se.	.....	.....	1	0	0	.....	.....	0	0	clear	J. T. Fitzgerald.
Cape Henry, Virginia	30.13	765.3	30.15	765.8	48	8.9	77	nw.	18	8.0	.....	0	hz.	.....	.....	0.09	2.3	clear	J. E. Lanouette.
Cape May, New Jersey	30.10	764.5	30.14	765.5	44	6.7	76	n.	5	2.2	.....	0	0	.....	.....	0	0	clear	W. Bolten.
Cedar Keys, Florida	30.04	763.0	30.06	763.5	68	20.0	84	ne.	8	3.6	.....	3 ck	0	.....	.....	0	0	clear	F. W. Mixer.
Champaign, Illinois	29.43	747.5	30.27	768.8	39.5	4.2	64	sw.	8	3.6	.....	0	0	.....	.....	0	0	clear	L. A. Welsh.
Charleston, S. Carolina	30.08	764.0	30.14	765.5	56	13.3	86	ne.	11	4.9	.....	.....	10 s	.....	ne.	inap.	inap.	threatening	J. H. Smith.
Charlotte, N. Carolina	29.33	745.0	30.19	766.8	47.0	8.3	77	e.	6	2.7	.....	.....	10 s	.....	w.	0.09	2.3	cloudy	D. O. Donoghue.
Chattanooga, Tennessee	29.39	746.5	30.22	767.6	47.0	8.3	56	ne.	1	0.4	.....	7 ck	0	sw.	.....	0	0	fair	B. L. Goulding.
Cheyenne, Wyoming	23.86	606.0	29.86	758.4	32.4	0.2	65	w.	4	1.8	.....	0	0	.....	.....	0	0	clear	E. McGovern.
Chicago, Illinois	29.49	749.0	30.22	767.6	37.5	3.1	77	w.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. Mitchell.
Chincoteague, Virginia	30.11	764.8	30.13	765.3	45.8	7.7	68	n.	14	6.3	.....	.....	10 s	.....	w.	inap.	inap.	cloudy	V. P. Temple.
Cincinnati, Ohio	29.62	752.3	30.29	769.4	40	4.4	65	n.	2	0.9	.....	0	0	.....	.....	0	0	clear	R. B. Watkins.
Cleveland, Ohio	29.48	748.8	30.24	768.1	37.6	3.1	65	sw.	4	1.8	.....	0	0	.....	.....	inap.	inap.	clear	J. B. Newlin.
Coleman City, Texas	28.34	719.8	30.16	766.1	38	3.3	92	s.	4	1.8	.....	0	0	.....	.....	0	0	clear	L. Dorman.
Columbus, Ohio	29.38	746.2	30.25	768.3	37	2.8	82	n.	2	0.9	.....	0	0	.....	.....	0	0	clear	D. Cuthbertson.
Concho, Texas	28.18	715.8	30.12	765.0	36	2.2	82	calm	0	0	.....	0	0	.....	.....	0	0	clear	W. W. McConihe.
Davenport, Iowa	29.56	750.8	30.23	767.8	44	6.7	60	sw.	2	0.9	.....	7 k	0	sw.	.....	0	0	fair	R. R. Martin.
Dayton, Washington T'y	28.39	721.1	30.14	765.5	33	0.6	92	sw.	2	0.9	.....	0	3 s	.....	sw.	0	0	clear	H. Clifford.
Deadwood, Dakota	25.17	639.3	29.86	758.4	31	— 0.6	74	s.	1	0.4	.....	0	0	.....	.....	0	0	clear	G. W. Scott.
Decatur, Texas	.....	.....	.....	.....	50	10.0	59	ne.	8	3.6	.....	0	0	.....	.....	0	0	clear	D. J. Carr.
Delaware Breakwater, Del.	30.12	765.0	30.14	765.5	45	7.2	68	n.	6	2.7	.....	4 cs	0	calm	.....	0	0	fair	A. Schneider.
Denison, Texas	29.38	746.2	30.18	766.6	44.0	6.7	83	n.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. McGlone.
Denver, Colorado	24.56	623.8	29.84	757.9	37.5	3.1	55	se.	9	4.0	.....	0	0	.....	.....	0	0	clear	F. M. Neal.
Des Moines, Iowa	29.28	743.7	30.21	767.3	36	2.2	69	calm	0	0	.....	0	0	.....	.....	0	0	clear	F. W. Conrad.
Detroit, Michigan	29.50	749.3	30.23	767.8	39.2	4.0	65	w.	7	3.1	.....	0	0	.....	.....	0	0	clear	C. F. R. Wappenhans.
Dodge City, Kansas	27.34	694.4	29.98	761.5	37	2.8	72	s.	16	7.2	.....	0	0	.....	.....	0	0	clear	E. A. Thomas.
Dubuque, Iowa	29.48	748.8	30.21	767.3	36.8	2.7	61	calm	0	0	.....	0	fg.	.....	calm	0	0	clear	J. Harvey Smith.
Duluth, Minnesota	29.39	746.5	30.11	764.8	33	0.6	68	ne.	1	0.4	.....	0	0	.....	.....	0	0	clear	N. B. Conger.
Eagle Pass, Texas	29.38	746.2	30.19	766.8	43.1	6.2	74	calm	0	0	.....	0	0	.....	.....	0	0	clear	F. Belford.
Eagle Rock, Idaho	25.09	637.3	29.81	757.2	30	— 1.1	80	sw.	16	7.2	.....	.....	10 s	.....	.....	0.05	1.3	cloudy	J. M. Clifford.
Eastport, Maine	29.80	756.9	29.87	758.7	36.2	2.3	61	nw.	11	4.9	.....	0	0	.....	.....	0	0	clear	J. H. Melton.
El Paso, Texas	26.24	666.5	29.98	761.5	35	1.7	56	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.44	747.8	30.19	766.8	38	3.3	73	calm	0	0	.....	0	0	.....	.....	0	0	clear	R. H. Paxton.
Escanaba, Michigan	29.45	748.0	30.14	765.5	35	1.7	69	calm	0	0	.....	0	0	.....	.....	0	0	clear	C. Dill.
Florence, Arizona	28.30	718.8	29.80	756.9	42.4	5.8	41	se.	2	0.9	.....	0	0	.....	.....	0	0	clear	R. R. Herman.
Fort Apache, Arizona	24.94	633.5	29.86	758.4	33	0.6	74	w.	2	0.9	.....	0	0	.....	.....	0	0	clear	W. O. Barnes.
Fort Assinnaboine, Montana	27.14	689.3	30.04	763.0	38	3.3	82	ne.	10	4.5	.....	.....	10 s	.....	.....	0.18	4.6	cloudy	B. O. Lenoir.
Fort Bennett, Dakota	28.25	717.5	29.89	759.2	31	— 0.6	71	nw.	2	0.9	.....	0	0	.....	.....	0	0	clear	T. Gibson.
Fort Benton, Montana	27.14	689.3	30.00	762.0	37	2.8	100	e.	10	4.5	.....	.....	10 n	.....	e.	0.31	7.9	light rain	S. Wheaton.
Fort Buford, Dakota	27.90	708.6	29.97	761.2	40	4.4	73	ne.	5	2.2	.....	10 cs	0	calm	.....	0	0	cloudy	A. H. Bell.
Fort Custer, Montana	26.65	676.9	29.83	757.7	42	5.6	100	n.	13	5.8	.....	.....	10 s	.....	calm	0	0	cloudy	V. Verge.
Fort Davis, Texas	25.18	639.6	29.97	761.2	41	5.0	62	sw.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. Williams.
Fort Elliott, Texas	27.24	691.9	30.02	762.5	31	— 0.6	33	se.	4	1.8	.....	0	0	.....	.....	0	0	clear	W. J. Cundall.
Fort Gibson, Indian T'y	29.63	752.6	30.21	767.3	37.0	2.8	82	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. B. Campbell.
Fort Grant, Arizona	25.10	637.5	29.83	757.7	42	5.6	55	se.	4	1.8	.....	0	0	.....	.....	0	0	clear	T. J. Macgowan.
Fort Keogh, Montana	27.28	692.9	29.82	757.4	46	7.8	71	ne.	3	1.3	.....	10 cs	0	.....	.....	0	0	clear	W. B. Stockman.
Fort Macon, North Carolina	30.16	766.1	30.17	766.3	48	8.9	93	n.	18	8.0	.....	9 k	0	sw.	.....	0.04	1.0	cloudy	L. Leonardy.
Fort McKavett, Texas	27.89	708.4	30.15	765.8	45	7.2	63	sw.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. E. Thatcher.
Fort Missoula, Montana	26.71	678.4	30.02	762.5	35	1.7	82	nw.	3	1.3	.....	.....	10 n	.....	.....	0.01	0.3	light snow	J. H. Jones.
Fort St. Michaels, Alaska	29.91	759.7	29.95	760.7	23	— 5.0	86	s.	7	3.1	.....	.....	10 s	.....	.....	inap	inap.	cloudy	A. P. Leavitt.
Fort Shaw, Montana	26.29	667.8	29.96	761.0	33	0.6	100	w.	9	4.0	.....	.....	10 n	.....	.....	0.13	3.3	light snow	A. L. Mathews.
Fort Sill, Indian Territory	28.90	734.0	30.14	765 5	38	3.3	85	s.	5	2.2	.....	0	0	.....	.....	0	0	clear	T. Cleary.
Fort Stevenson, Dakota	27.99	710.9	29.89	759.2	33	0.6	88	ne.	1	0.4	.....	2 c	0	w.	.....	0	0	clear	W. Burrows
Fort Verde, Arizona	.....	.....	.....	.....	48.4	9.1	46	se.	.....	.....	4	2 k	2 s	sw.	s.	0	0	fair	D. Brooks.
Fort Washakie, Wyoming	24.21	614.9	.....	.....	33.4	0.8	76	w.	3	1.3	.....	0	7 k	.....	.....	0	0	fair	T. M. Ambler.
Fredericksburg, Texas	28.40	721.3	30.12	765.0	40	4.4	82	nw.	1	0.4	.....	0	0	.....	.....	0	0	clear	H. S. Miles.
Galveston, Texas	30.15	765.8	30.19	766.8	57	13.9	75	ne.	12	5.4	.....	0	5 ks	.....	s.	0	0	fair	E. O'C. MacInernev.
Grand Haven, Michigan	29.52	749.8	30.21	767.3	39.5	4.2	78	sw.	1	0.4	.....	0	0	.....	.....	0	0	clear	W. A. Reid.
Hatteras, North Carolina	30.13	765.3	30.15	765.8	50	10.0	63	ne.	16	7.2	.....	6 ck	hz.	ne.	.....	0.03	0.8	fair	R. M. Crawford.
Helena, Montana	25.68	652.3	29.94	760.5	38	3.3	82	w.	9	4.0	.....	.....	10 n	.....	w.	0.14	3.6	light rain	N. C. Smith.
Henrietta, Texas	29.20	741.7	30.24	768.1	44.0	6.7	60	s.	6	2.7	.....	0	0	.....	.....	0	0	clear	J. W. Byram.
Huron, Dakota	28.54	724.9	29.99	761.7	36.3	2.4	72	se.	12	5.4	.....	0	0	.....	.....	0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.44	747.8	30.26	768.6	38.5	3.6	71	calm	0	0	.....	0	hz.	.....	calm	0	0	clear	O. Schutze
Indianola, Texas	30.15	765.8	30.18	766.6	57.4	14.1	74	ne.	16	7.2	.....	4 chz	hz.	w.	.....	0	0	fair	I. A. Reed.
Jacksboro, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. P. Sherry.
Jacksonville, Florida	30.03	762.7	30.07	763.8	67	19.4	90	ne.	5	2.2	.....	3 ck	3 s	w.	.....	inap.	inap.	fair	J. W. Smith.
Keokuk, Iowa	29.54	750.3	30.22	767.6	44.5	6.9	68	s.	2	0.9	.....	9 k	0	sw.	.....	0	0	cloudy	F. Z. Gosewisch
Key West, Florida	30.06	763.5	30.08	764.0	78.5	25.8	85	sw.	8	3.6	.....	.....	10 s	.....	.....	0.03	0.8	cloudy	L. M. Melbourne.
Kittyhawk, North Carolina	30.16	766.1	30.18	766.6	46	7.8	68	nw.	8	3.6	.....	7 k	3 s	w.	w.	0.06	1.5	cloudy	E. A. Beals.
Knoxville, Tennessee	29.20	741.7	30.24	768.1	41.3	5.2	68	ne.	4	1.8	.....	1 ck	0	.....	.....	0	0	clear	J. A. Cody.
La Crosse, Wisconsin	29.40	746.7	30.20	767.1	40	4.4	65	s.	6	2.7	.....	0	0	.....	.....	0	0	clear	S. C. Emery.
La Mesilla, New Mexico	26.07	662.2	29.95	760.7	34.5	1.4	64	calm	0	0	.....	0	0	.....	.....	0	0	clear	N. D. Lane.
Leavenworth, Kansas	29.31	744.5	30.22	767.6	39	3.9	65	calm	0	0	.....	0	0	.....	.....	0	0	clear	A. W. Browne.
Lewiston, Idaho	29.31	744.5	30.16	766.1	39	3.9	65	se.	2	0.9	.....	0	4 s	.....	se.	0	0	fair	W. Blake.
Little Rock, Arkansas	29.92	760.0	30.24	768.1	49	9.4	86	calm	0	0	.....	.....	10 ks	.....	calm	0	0	cloudy	W. U. Simmons.
Los Angeles, California	29.61	752.1	30.01	762.2	53.1	11.7	86	ne.	1	0.4	.....	.....	10 s	.....	calm	0	0	cloudy	E. F. Kubel.
Louisville, Kentucky	29.68	753.9	30.25	768.3	44	6.7	68	calm	0	0	.....	0	sk.	.....	.....	0	0	clear	H. C. Smyth.
Lynchburg, Virginia	29.50	749.3	30.21	767.3	38.8	3.8	73	calm	0	0	.....	0	0	.....	.....	0.01	0.3	clear	W. R. Bushby.
Madison, Wisconsin	29.19	741.4	30.23	767.8	38	3.3	82	sw.	4	1.8	.....	0	0	.....	.....	0	0	clear	C. A. Shaw.
Marquette, Michigan	29.36	745.7	30.11	764.8	41	5.0	40	w.	10	4.5	.....	0	0	.....	.....	0	0	clear	J. Gilligan.
Mason, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	P. M. Wilson.
Memphis, Tennessee	29.94	760.5	30.28	769.1	46	7.8	68	nw.	4	1.9	.....	0	1 s	.....	.....	0	0	clear	D. T. Flannery.
Milwaukee, Wisconsin	29.45	748.0	30.22	767.6	40	4.4	65	w.	9	4.0	.....	0	hz.	.....	.....	0	0	clear	W. Line.
Mobile, Alabama	30.12	765.0	30.16	766.1	55	12.8	62	n.	5	2.2	.....	0	9 ks	.....	w.	0	0	cloudy	J. D. Paxton.

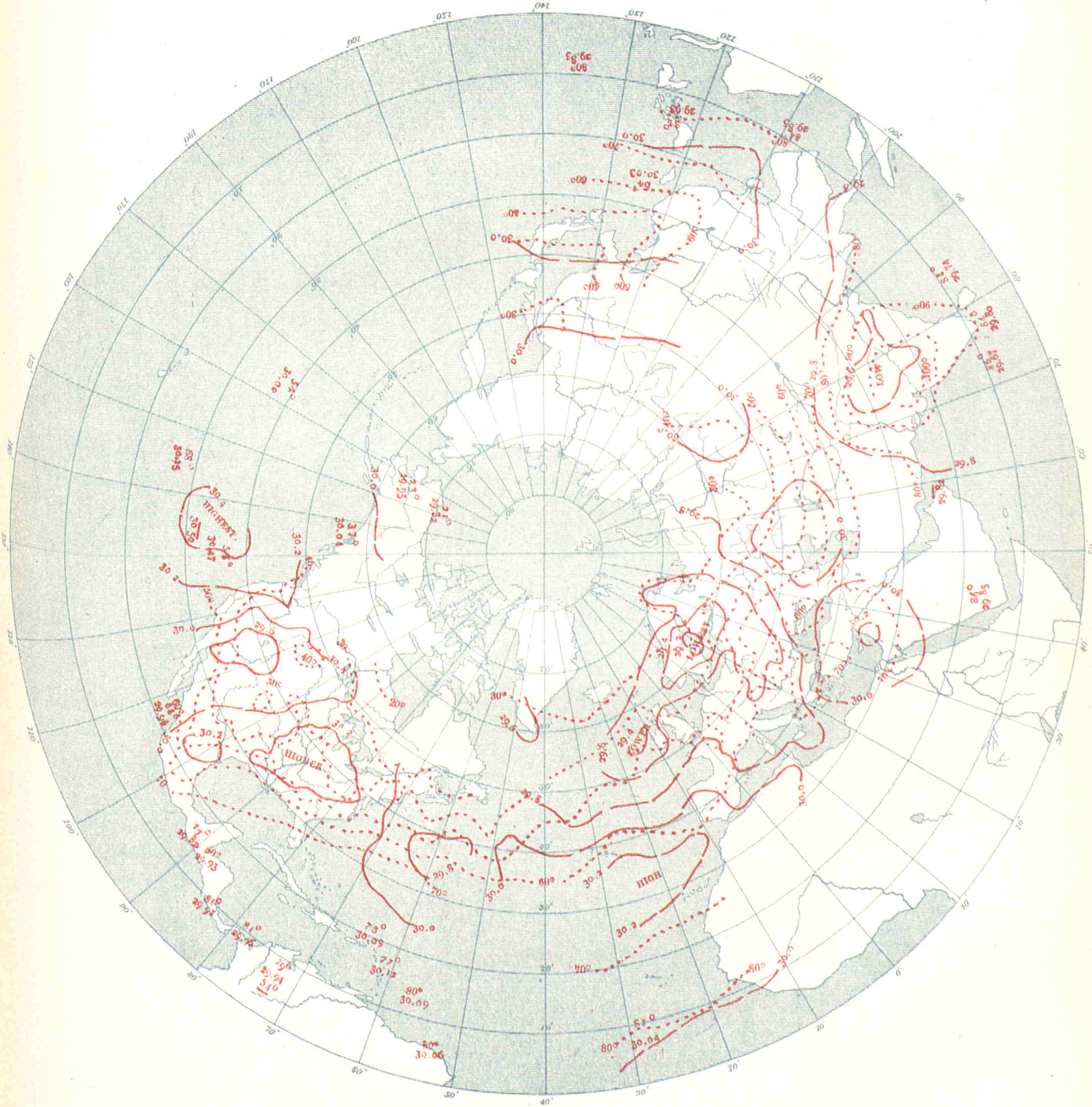
STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Montgomery, Alabama	29.95	760.7	30.18	766.6	49.8	9.9	64	n.	5	2.2		4 cs	6 k		w.	0	0	cloudy	J. B. McLaughlin.
Moorhead, Minnesota	28.96	735.6	29.99	761.7	36	2.2	79	s.	16	7.2		0	0			0	0	clear	H. Bessant.
Morgantown, W. Virginia	29.20	741.7	30.24	768.1	39.0	3.9	82	calm	0	0		0	0			inap	inap.	clear	G. C. Lewis.
Mt. Washington, N. H.	23.54	597.9	29.95	760.7	13.5	—10.3	80	ne.	40	17.9		1 cs	0	ne.		0	0	clear	J. G. Linsley.
Nashville, Tennessee	29.72	754.9	30.26	768.6	41.0	5.0	82	nw.	3	1.3		0	hz.			0	0	clear	L. A. Jesunofsky.
New Haven, Connecticut	29.92	760.0	30.04	763.0	40	4.4	48	n.	6	2.7		0	0			0	0	clear	J. H. Sherman.
New London, Connecticut	29.96	761.0	30.01	762.2	44	6.7	68	w.	6	2.7		0	0			0	0	clear	J. G. Lynch.
New Orleans, Louisiana	30.10	764.5	30.16	766.1	59.0	15.0	54	nne.	8	3.6		0	7 s		sw.	0	0	fair	S. Dunne.
Newport, Rhode Island	29.93	760.2	29.98	761.5	41.3	5.2	56	nw.	9	4.0		0	0			0	0	clear	W. McGillivray.
New River, N. Carolina					47	8.3	78	n.			1	3 ck	0		w.	0.11	2.8	clear	C. C. Corbin.
New Shoreham, Rhode I'd	29.96	761.0	29.99	761.7	40.8	4.9	65	nw.	10	4.5		0	0			0	0	clear	W. Davis.
New York, New York	29.92	760.0	30.10	764.5	39	3.9	65	w.	10	4.5		0	0			0	0	clear	E. B. Garriott.
Norfolk, Virginia	30.14	765.5	30.17	766.3	50	10.0	72	n.	10	4.5		hz.	hz.			0.13	3.3	dense haze	J. T. Elker.
North Platte, Nebraska	26.97	685.0	29.93	760.2	41.6	5.3	58	se.	8	3.6		0	0			0	0	clear	E. F. Brady.
Olympia, Washington T'y	30.22	767.6	30.26	768.6	36.0	2.2	89	calm	0	0		0	0			0.38	9.7	clear	J. Dascomb.
Omaha, Nebraska	28.96	735.6	30.17	766.3	41.2	5.1	73	s.	16	7.2		0	0			0	0	clear	A. Pollak.
Ooglaamie, Pt. Barrow, Alas.	29.80	756.9	29.82	757.4	2.3	—16.5	92	se.	8	3.6			10 s		ssw.	inap.	inap.	cloudy	P. H. Ray.
Oswego, New York	29.76	755.9	30.10	764.5	40.0	4.4	65	w.	9	4.0		0	0			c	0	clear	S. W. Beall.
Palestine, Texas	29.66	753.4	30.22	767.6	46.5	8.1	86	ne.	6	2.7		0	0			0	0	clear	L. M. Pindell.
Pensacola, Florida	30.10	764.5	30.13	765.3	58.0	14.4	64	n.	4	1.8		0	8 s		w.	0	0	cloudy	M. McGauran.
Philadelphia, Pa	30.04	763.0	30.14	765.5	44	6.7	51	nw.	7	3.1		0	0			0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	17.58	446.5	29.86	758.4	8	—13.3	69	sw.	13	5.8		1 cs	0			0	0	clear	L. M. Dey.
Pioche, Nevada	23.74	603.0	29.73	755.1	34	1.1	92	nw.	2	0.9			10 n		calm	0.56	14.2	heavy snow	C. N. Kitchel.
Pittsburg, Pennsylvania	29.40	746.7	30.22	767.6	35.5	1.9	73	nw.	2	0.9		2 ck	0	nw.		inap.	inap.	clear	J. H. Bryce.
Port Eads, Louisiana	30.12	765.0	30.13	765.3	66.2	19.0	60	ne.	16	7.2			10 s			0	0	cloudy	H. G. Christian.
Port Huron, Michigan	29.49	749.0	30.19	766.8	37.2	2.9	79	w.	6	2.7		0	0			0	0	clear	W. O. Bailey.
Portland, Maine	29.88	758.9	29.92	760.0	44.0	6.7	45	nw.	4	1.8		0	0			0	0	clear	D. C. Murphy.
Portland, Oregon	30.21	767.3	30.28	769.1	42.0	5.6	82	s.	4	1.8			10 s		calm	0.15	3.8	cloudy	M. L. Hearne.
Portsmouth, N. Carolina					55	12.8	69	n.	28	12.5			10 ks		ne.	0.12	3.0	cloudy	F. P. Chaffee.
Prescott, Arizona	24.53	623.1	29.75	755.6	44	6.7	37	s.	16	7.2			10 s		s.	0	0	cloudy	J. Mc N. Wright.
Provincetown, Mass.	29.91	759.7	29.94	760.5	41	5.0	73	nw.	11	4.9		0	0			0	0	clear	P. T. Jenkins.
Punta Rassa, Florida	30.04	763.0	30.05	763.3	73.5	23.1	87	s.	5	2.2			10 ks		sw.	0.69	17.5	cloudy	W. J. Evans.
Red Bluff, California	29.81	757.2	30.18	766.6	44.1	6.7	41	n	17	7.6		0	0			0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.96	761.0	30.20	767.1	60	15.6	54	calm	0	0		0	0			0	0	clear	W. H. Taylor.
Rochester, New York	29.44	747.8	30.12	765.0	36	2.2	79	w.	10	4.5		0	sk.			0	0	clear	A. T. Sherwood.
Roseburg, Oregon	29.80	756.9	30.36	771.1	41	5.0	76	sw.	4	1.8			10 n			0.06	1.5	light rain	J. J. Nanry.
Sacramento, California	29.97	761.2	30.05	763.3	50.0	10.0	44	n.	27	12.1		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.66	753.4	30.27	768.8	44.0	6.7	76	se.	5	2.2			10 s			inap.	inap.	cloudy	J. H. Webber.
St. Paul, Minnesota	29.23	742.4	30.12	765.0	37.0	2.8	82	se.	3	1.3		0	0			0	0	clear	P. F. Lyons.
St. Vincent, Minnesota	29.10	739.1	29.91	759.7	33	0.6	78	s.	15	6.7		0	0			0	0	clear	G. Klugsbury.
Salt Lake City, Utah	25.33	643.4	29.70	754.4	38	3.3	82	nw.	1	0.4			10 n			0.31	7.9	light rain	J. Craig.
San Antonio, Texas	29.48	748.8	30.18	766.6	43.7	6.5	93	calm	0	0		0	0			0	0	clear	E. Lane.
San Diego, California	29.91	759.7	29.98	761.5	54.5	12.5	73	sw.	8	3.6		4 k	6 s			0	0	cloudy	A. C. Dobbins.
Sandusky, Ohio	29.52	749.8	30.22	767.6	41	5.0	65	w.	12	5.4		0	0			0	0	clear	M. H. Perry.
Sandy Hook, New Jersey	30.06	763.5	30.10	764.5	40.0	4.4	65	nw.	14	6.3		0	0			0	0	clear	B. A. Blundon.
San Francisco, California	30.06	763.5	30.13	765.3	47	8.3	48	nw	11	4.9		0	0			0	0	clear	N. Gorom.
Santa Fé, New Mexico	23.11	587.0	29.87	758.7	35	1.7	57	e.	1	0.4		3 c	0			0	0	clear	H. U. Jones.
Savannah, Georgia	30.04	763.0	30.12	765.0	60.5	15.8	83	ne.	6	2.7			10 s		ne.	inap.	inap.	cloudy	H. W. Ford.
Shreveport, Louisiana	29.98	761.5	30.22	767.6	51	10.6	93	n.	1	0.4		0	9 k			0	0	cloudy	E. N. Meekins.
Silver City, New Mexico	24.13	612.9	29.81	757.2	28	— 2.2	61	s.	3	1.3		0	0			0	0	clear	J. B. Wallace.
Sitka, Alaska	29.97	761.2	30.04	763.0	37.1	2.8	82	sw.	10	4.5			10 n		sw.	0.35	8.9	light rain	J. J. McLean.
Smithville, North Carolina	30.15	765.8	30.19	766.8	49	9.4	86	ne.	7	3.1			10 s		w.	0.19	4.8	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	28.07	713.0	30.13	765.3	34	1.1	82	se.	3	1.3		7 k	0			0	0	fair	D. Moore.
Springfield, Illinois	29.58	751.3	30.28	769.1	44	6.7	56	se.	4	1.8		0	5 s			0	0	fair	T. B. Jennings.
Springfield, Massachusetts	29.90	759.4	30.02	762.5	40.0	4.4	65	calm	0	0		0	0			0	0	clear	T. S. Outram.
Springfield, Mo.	28.76	730.5	30.28	769.1	39.5	4.2	56	ne.	6	2.7		0	3 s		n.	0	0	clear	J. B. Marbury.
Stockton, Texas	27.02	686.3	30.05	763.3	40.2	4.6	67	s.	4	1.8		0	0			0	0	clear	J. O'Dowd.
Thatcher's Island, Mass.	29.86	758.4	29.91	759.7	42.5	5.8	66	nw.	13	5.8		0	0			0	0	clear	G. Liebmann.
Toledo, Ohio	29.51	749.5	30.22	767.6	40.5	4.7	53	w.	5	2.2		0	0			0	0	clear	A. Buell.
Tucson, Arizona	27.44	697.0	29.83	757.7	50	10.0	55	calm	0	0		0	0			0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.84	757.9	30.22	767.6	38.0	3.3	89	sw.	1	0.4		0	2 s		w.	0	0	clear	J. Daly.
Uvalde, Texas	29.20	741.7	30.17	766.3	42	5.6	73	calm	0	0		0	0			0	0	clear	E. C. Imlay.
Vicksburg, Mississippi	29.96	761.0	30.22	767.6	49	9.4	56	calm	0	0		1 c	hz.		calm	0	0	clear	T. J. Kenan.
Visalia, California	29.71	754.6	30.08	764.0	46.0	7.8	64	n.	4	1.8		0	2 ks		n.	0	0	clear	J. T. Cochran.
Washington, D. C.	30.09	764.3	30.21	767.3	43	6.1	51	nw.	12	5.4		0	0			0	0	clear	B. M. Purssell.
West Las Animas, Colorado	25.91	658.1	29.87	758.7	26.5	— 3.1	63	w.	7	3.1		0	0			0	0	clear	J. Grover.
Wickenburg, Arizona																			H. A. Kremp.
Williamsport, Pa.	29.53	750.0	30.14	765.5	37.5	3.1	77	sw.	2	0.9			10 ks		w.	0	0	cloudy	B. F. Hough.
Wilmington, N. Carolina	30.13	765.3	30.19	766.8	50	10.0	86	ne.	6	2.7		10 k	0	w.		0.06	1.5	cloudy	E. W. McGann.
Winnemucca, Nevada	25.56	649.2	29.96	761.0	29	— 1.7	67	n.	4	1.8		0	0			inap.	inap.	clear	J. R. Williams.
Yankton, Dakota	28.70	729.0	30.04	763.0	39	3.9	82	s.	3	1.3		0	0			0	0	clear	J. H. Atfield.
Yuma, Arizona	29.64	752.8	29.79	756.7	57.8	14.3	51	w.	10	4.5		0	0			0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.06	560.3			53.5	11.9	69	sw.	2.4	1.1		2 k	2 ks		w.	0	0	fair	Joaquin Gomez.
Bridgetown, Barbados, W.I.	30.08	764.0	30.09	764.3	80	26.7	90	s.				5 k	5 ks	se.	se.	0.60	15.2	cloudy	J. A. Racker.
Buenaventura, U. S. C.																			J. I. Plume.
Guadeloupe, W. I.	30.00	762.0	30.02	762.5	77	25.0	87	ne.				0	2 ks			0.079	2.0	clear	B. Bigar.
Havana, Cuba, W. I.	30.07	763.8	30.12	765.0	81	27.2	82	calm	0	0		5 cs	0	calm		0	0	fair	A. Van Caneghem.
Kingston, Jamaica, W. I.	30.06	763.5	30.07	763.8	78.1	25.6	75	n.	2	0.9		1 c	0			0	0	fine	Robert Johnston.
Navassa, W. I.																			F. M. Everett.
Paramaribo, S. A.	30.06	763.5	30.06	763.5	80	26.7	82	e.			2	4 k	0	e.		0	0		Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.48	748.8	29.94	760.5	79	26.1	89	calm			0		10 ks		calm	0.02	0.5	foggy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.							92	ne.			1	0	3 ks		ne.	0	0	fair	Earl Flint.
Santiago de Cuba, W. I.	30.05	763.3	30.08	764.0	78	25.6	72	n.	3.6	1.6		2 c	0			0	0	fair	Robert Mason.
York Factory, B. A.	30.18	766.6	30.24	768.1	14.0	—10.0	91	nw.	11	4.9		1 c	0	nw.		0	0	fair	W. Wood.

STATIONS AND VESSELS.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.			Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Amount and kind.		Direction.						
								Force.	Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
British Naval.																		
H. M. S. Alert, Mahe, Seychelles Islands	29.85	758.2	85.8	29.9	75	w.			3		4							d. clouds.
H. M. S. Alexandra, Malta, Mediterranean	29.75	755.6	72.5	22.5	75	nne.			1		0							blue sky.
H. M. S. Bacchante, Haifa Bay, Palestine	30.23	767.8	68	20.0	74	nw.			2		0							blue sky.
H. M. S. Cleopatra, N. 6° 52′ E. 78° 02′	29.80	756.9	83.5	28.6	96	nw.			1–2		7	calm						d. clouds.
H. M. S. Comus, Pelew Island, Oceania	29.83	757.7	80	26.7	91	e.			3–4		9	ne.						showery.
H. M. S. Diamond, S. 38° 13′, E. 139° 27′	30.09	764.3	58	14.4	93	sw.			3–5		5					3	sw.	showery.
H. M. S. Dido, N. 17° 00′, W. 61° 45′	30.15	765.8	78	25.6		se.			4		1	ene.						blue sky.
H. M. S. Druid, N. 20° 57′, W. 73° 41′	30.08	764.0	76.5	24.7	90	ne.			1		2	ne.						d. clouds.
H. M. S. Dryad, N. 23° 37′ E. 58° 36′	29.72	754.9				nw.			1		1	w.				1	nw.	blue sky.
H. M. S. Eclipse, S. 12° 05′, E. 43° 58′			83	28.3	95	ese.			4		2					2	ese.	d. clouds.
H. M. S. Espiegle, Adelaide, South Australia	29.90	759.4	62	16.7	83	s.			2		0							blue sky.
H. M. S. Fawn, N. 14° 47′, E. 42° 52′	29.84	757.9	81	27.2	74	nw.			2		0					1	nw.	blue sky.
H. M. S. Gannet, S. 29° 56′, W. 71° 20′	30.03	762.7	54	12.2	90	calm			0		10					3	ssw.	misty.
H. M. S. Garnet, Montevideo, Uruguay	30.32	770.1	60	15.6	76	w.			1		0							blue sky.
H. M. S. Inconstant, S. 35° 00′, E. 21° 15′	29.94	760.5	68	20.0	94	wsw.			4–5		3	w.				6	wsw.	squally.
H. M. S. Iron Duke, N. 22° 16′, E. 114° 10′	30.10	764.5	65	18.3	94	ne.			1		4	e.						d. clouds.
H. M. S. Lark, S. 10° 17′, E. 161° 37′	29.88	758.9	82.3	27.9		calm			0		2							showery.
H. M. S. Magpie, N. 35° 25′, E. 139° 43′	30.17	766.3	53.0	11.7	66	se.			1		0							blue sky.
H. M. S. Malabar, N. 24° 16′, E. 36° 24′	29.98	761.5	76	24.4	81	nnw.			4–5		0					4	nnw.	blue sky.
H. M. S. Nelson, Sydney, N. S. Wales	29.87	758.7	69	20.6	84	calm			0		0							blue sky.
H. M. S. Northampton, Bermuda, W. I.	29.86	758.4	70.5	21.4	92	wsw.			3		9	wsw.						d. clouds.
H. M. S. Orontes, N. 36° 48′ W. 1° 52′	29.96	761.0	63.5	17.5	85	ssw.			3		2					4	sw.	d. clouds.
H. M. S. Pegasus, N. 5° 45′, E. 109° 43′	29.85	758.2	84	28.9	83	e.			3		3	e.				3	e.	d. clouds.
H. M. S. Rambler, St. Paul de Loando, Benguela	29.92	760.0	82	27.8	95	w.			1		8							d. clouds.
H. M. S. Rocket, Esquimalt, Vancouver Id., B. C.	30.19	766.8	40	4.4		calm			0		2							d. clouds.
H. M. S. Superb, N. 39° 38′, E. 19° 45′*	29.95	760.7	63	17.2	67	ese.			4–6		4	ese.				3	ese.	squally.
H. M. S. Tamar, N. 36° 44′ W. 0° 11′	29.97	761.2	66.5	19.2	45	wsw.			6		1					5	wsw.	squally.
H. M. S. Thalia, S. 32° 44′, E. 16° 13′	30.07	763.8	69	20.6		w.			3		1					4	sw.	blue sky.
H. M. S. Triumph, Coquimbo, Chili	30.04	763.0	54	12.2	86	calm			0		9	calm						foggy.
H. M. S. Tyne, N. 8° 20′, E. 72° 05′	29.67	753.6	86	30.0	72	nnw.			1–2		1					1	nw.	blue sky.
Portuguese Naval.																		
Rio Lima, Bulama, Senigambia	30.06	763.4	79.2	26.2	82	sw.			1		0							blue sky.
Tamega, Macao, China	30.10	764.6	70.7	21.5	68	e.			4		0					2		
United States Naval.																		
Navy Yard, Pensacola, Fla	30.06	763.5	59	15.0	59	n.	5	2.2			8		nw.	0	0			fair.
Navy Yard, Portsmouth, N. H.	29.96	761.0	39	3.9	55	nw.	7	3.1			0			0	0			clear.
Naval Hospital, Yokohama, Japan	29.96	761.0	49	9.4	74	calm			0		0			0.42	10.7			clear.
Adams, N. 9° 20′ W. 86° 20′	29.67	753.6	83	28.3	91	calm			0		2		n.	sli't	sli't	sm'h		clear.
Alaska, N. 8° 49′, W. 79° 36′	29.85	758.2	79	26.1	86	nw.			2		0			0	0	sm'h		clear.
Alert, Kobe, Japan*	30.07	763.8	54	12.2	67	calm			0		0			0	0	sm'h		hazy.
Alliance, N. 19° 11′ W. 95° 43′	30.11	764.8	71	21.7	90	nnw.			4		8			0	0	mod		cloudy.
Ashuelot, Kobe, Japan	30.15	765.8	51	10.6	86	nw.			2		0							clear.
Brooklyn, Montevideo, Uruguay	30.28	769.1	59	15.0	88	wnw.	7	3.1			2		calm	0	0	sm'h		fair.
Colorado, New York, N. Y.	29.98	761.5	41	5.0	57	nw.	15	6.7			0			0	0			hazy.
Enterprise, N. 17° 55′, W. 78° 27′	30.04	763.0	79	26.1	86	e.			2		2		calm			sm'h		clear.
Essex, S. 7° 42′ W. 22° 11′	29.99	761.7	80	26.7	78	sse.			3		2		se.			mod.	se.	clear.
Franklin, Norfolk, Va.	30.20	767.1	50	10.0	72	nw.	10	4.5			5		nw.	0	0			fair.
Galena, Leghorn, Italy	29.64	752.8	64	17.8	94	n.			2		2					sm'h		fair.
Independence, Navy Yard, Mare Island, Cal	29.97	761.2	47	8.3	62	wnw.			3		0			0	0			clear.
Iruquis, Mare Island, Cal	30.08	764.0	48	8.9	92	wnw.			3		0							clear.
Kearsarge, N. 24° 23′, E. 70° 20′	30.10	764.5	77	25.0	86	s.			1		2					sl't	ne.	clear.
Lackawanna, Callao, Peru*	29.87	758.7	65	18.3	94	s.			0–1		10							foggy.
Lancaster, Leghorn, Italy*	29.67	753.6	65	18.3	84	sse.			3		10		s.	0	0			cloudy.
Marion, S. 26° 46′, E. 4° 18′	30.11	764.8	71	21.7	85	ese.			2		10		calm	0	0	long	wsw.	cloudy.
Michigan, Erie, Pa.	30.09	764.3	35	1.7	100	sw.			1		0							clear.
Minnesota, Newport, R. I.	29.96	761.0	42	5.6	58	nnw.	4	1.8			0							clear.
Monocacy, Kobe, Japan	30.17	766.3	52	11.1	79	calm			0		0							clear.
New Hampshire, Newport, R. I.	29.92	760.0	39	3.9	100	nw.			2		0					sm'h		clear.
Nipsic, Marseilles, France	29.70	754.4	65	18.3	48	wnw.			3		2		wnw.			sm'h		clear.
Onward, Callao, Peru†	30.08	764.0	63	17.2	100	sse.			1		10		n.			long	w.	misty.
Palos, Kobe, Japan	30.17	766.3	52	11.1	47	calm			0		0							clear.
Passaic, Washington, D. C.	30.23	767.8	43	6.1	91	w.			3		2		w.					clear.
Pensacola, Callao, Peru	29.95	760.7	66	18.9	79	se.	3	1.3			10			0	0	sm'h		foggy.
Powhatan, Port Royal, Jamaica, W. I.	30.06	763.5	78	25.6	86	n.			2		2		n.					clear.
Portsmouth, Newport, R. I.	29.95	760.7	40	4.4	100	nnw.			3		0					sm'h		clear.
Quinnebaug, Leghorn, Italy	29.65	753.1	62	16.7	83	s.			5		2		s.			sm'h		clear.
Ranger, Santiago Bay, Mexico*	29.88	758.9	68	20.0	70	nw.			1		2			0	0	sm'h		clear.
Richmond, Kobe, Japan*	30.10	764.5	53	11.7	67	nw.			1		0			0	0			fair.
Saratoga, Newport, R. I.	29.97	761.2	39	3.9	73	n.			1–2		0			0	0	sm'h		clear.
Shenandoah, N. 10° 13′, W. 80° 30′*	30.03	762.7	80	26.7	82	nne.			3		5		nne.			sm'h		fair.
St. Louis, League Island, Pa.	30.34	770.6	47	8.3	48	wnw.	2	0.9			2			0	0			clear.
Swatara, Kobe, Japan*	29.99	761.7	54	12.2	67	calm			0		0					sm'h		clear.
Tennessee, Port Royal, S. C.	30.13	765.3	61	16.1	94	ne.	10	4.5			10			0	0			threatening overcast.
Vandalia, N. 33° 10′, W. 78° 19′†	30.36	771.1	57	13.9	87	nne.			4		10		ne.					fair.
Wabash, Boston, Mass.	29.90	759.4	43	6.1	59	nw.	4	1.8			5		w.	0	0			raining.
Wachusetts, Sitka, Alaska	30.00	762.0	37	2.8	100	se.			1		10		calm			sm'h		overcast.
Wyoming, Port Royal, S. C.	30.11	764.8	58	14.4	94	ne.	16	7.2			10		ne.	0	0			cloudy.
Yantic, Off Port Royal, S. C.*	30.07	763.8	63	17.2	89	ene.			2		10		nne.					

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Nova Scotian, N. 43° 07′. W. 59° 48′	29.80	756.9	35	1.7	.....	sse.	.....	.....	2	.....	0	.....	wsw.	4 h'r	4 h'r	sm'h	.....	hazy.
S. S. Polynesian, Liverpool, England*	29.51	749.5	53	11.7	.....	sw.	.....	.....	2	.....	10	.....	nnw.	0	0	short	nnw.	cloudy.
S. S. Waldensian, N. 42° 01′, W. 56° 23′*	29.76	755.9	42	5.6	.....	var.	.....	.....	2	.....	10	.....	.....	0	0	short	nnw.	overcast.
AMERICAN STEAMSHIP COMPANY.																		
S. S. British Crown, N. 39° 00′, W. 72° 26′†	30.22	767.6	41	5.0	.....	nnw.	.....	.....	3	.....	0	.....	.....	0	0	sm'h	.....	clear.
S. S. Illinois, N. 40° 27′, W. 49° 55′	29.87	758.7	52	11.1	93	e.	.....	.....	4	.....	10	.....	sw.	.....	.....	r'gh	e.	overcast.
S. S. Ohio, N. 51° 24′, W. 10° 00′†	29.64	752.8	47	8.3	92	s.	.....	.....	5	.....	10	.....	sw.	.....	.....	mod.	s.	rainy.
S. S. Pennsylvania, Off Roche's Point, Ireland†	29.66	753.4	50	10.0	93	sw.	.....	.....	2	.....	..	.....	sw.	.....	.....	sm'h	.....	d. clouds.
ANCHOR LINE.																		
S. S. Assyria, N. 43° 19′, W. 60° 22′ *†	29.96	761.0	44	6.7	.....	e.	.....	.....	2	.....	fg.	.....	e.	0	0	sm'h	.....	dense fog.
S. S. Devonia, N. 55° 12′ W. 12° 20′†	29.39	746.5	46	7.8	.....	sw.	.....	.....	4	.....	8	.....	sw.	.....	.....	mod.	sw.	squally.
S. S. India, Suez Canal*	30.15	765.8	68	20.0	90	ne.	.....	.....	3	.....	0	.....	.....	.....	.....	.....	.....	fair.
ATLAS LINE.																		
S. S. Alsa, N. 32° 44′, W. 74° 00′†	30.07	763.8	69	20.6	75	ene.	.....	.....	2	.....	10	.....	sw.	4 h'r	4 h'r	mod.	e.	fair.
S. S. Alvo, Savanilla, U. S. C.	29.90	759.4	107	41.7	.....	nne.	.....	.....	7	.....	4	.....	ne.	0	0	.....	.....	fair.
S. S. Arden, Kingston, Jamaica, W. I.	.....	.....	.....	.....	.....	ene.	.....	.....	1	.....	2	.....	ne.	.....	.....	.....	.....	fine.
S. S. Athos, N. 36° 10′, W. 74° 16′	29.91	759.7	.....	.....	.....	ne.	.....	.....	4	.....	8	.....	nne.	0	0	r'gh	ne.	cloudy.
S. S. Claribel, Kingston, Jamaica, W. I. *†	30.15	765.8	81	27.2	87	calm	.....	.....	0	.....	3	.....	calm	0	0	.....	.....	fine.
BRITISH METEOROLOGICAL OFFICE.																		
Bk. Arran, S. 12° 55′ W. 27° 22′	30.01	762.2	82.5	28.1	64	ese.	.....	.....	3	.....	0	.....	.....	.....	.....	.....	.....	blue sky.
S. Baroda, N. 6° 59′, E. 82° 26′	29.74	755.4	80.7	27.1	98	ne.	.....	.....	1	.....	9	.....	.....	.....	.....	.....	.....	misty.
British Merchant, S. 11° 14′, E. 87° 16′	29.76	755.9	80	26.7	84	ese.	.....	.....	4	.....	10	.....	.....	.....	.....	.....	.....	raining.
S. S. Gordon Castle, N. 28° 02′, E. 121° 36′	30.13	765.3	56	13.3	75	ene.	.....	.....	3	.....	2	.....	.....	.....	.....	.....	.....	d. clouds.
CROMWELL LINE.																		
S. S. Hudson, N. 32° 25′, W. 77° 30′†	30.10	764.5	64	17.8	.....	ne.	.....	.....	5	.....	5	.....	nne.	0	0	h'vy	nne.	fair.
CUNARD LINE.																		
S. S. Parthia, N. 41° 40′, W. 49° 05′†	29.94	760.5	.....	.....	.....	e.	.....	.....	2	.....	4	.....	ne.	4 h'r	4 h'r	sm'h	.....	fine.
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. Canada, Havre, France	29.46	748.2	55.5	13.0	.....	s.	.....	.....	4	.....	10	.....	s.	light	light	.....	.....	covered.
S. S. France, N. 49° 46′, W. 7° 47′†	29.75	755.7	53.6	12.0	.....	sw.	.....	.....	5	.....	.....	.....	se.	0	0	mod.	ese.	covered.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Gellert, N. 41° 20′, W. 57° 58′	29.88	758.9	51	10.6	.....	nnw.	.....	.....	3	.....	8	.....	w.	4 h'r	4 h'r	sm'h	.....	fair.
S. S. Lessing, N. 40° 10′, W. 57° 00′	29.75	755.6	54	12.2	.....	ene.	.....	.....	4	.....	10	.....	.....	0	0	sm'h	.....	cloudy.
S. S. Silesia, New York, N. Y. *†	30.13	765.3	37.9	3.3	.....	nw.	.....	.....	1–2	.....	0	.....	.....	0	0	.....	.....	fair.
INMAN LINE.																		
S. S. City of New York, N. 40° 55′, W. 61° 15′	29.75	755.6	.....	.....	.....	w.	.....	.....	4	.....	6?	.....	wnw.	6 h'r	6 h'r	mod.	w.	clear.?
JOHNSTON LINE.																		
S. S. Thanemore, N. 43° 10′ W. 43° 28′	29.94	760.5	.....	.....	.....	nw.	.....	.....	5	.....	5	.....	nw.	6 h'r	6 h'r	sll't	sw.	fine.
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, N. 24° —′, W. 23° —′*†	30.32	770.1	70	21.1	.....	ne.	.....	.....	3	.....	8	.....	ne.	0	0	long	n.	cloudy.
S. S. Humboldt, N. 5° 50′, W. 28° 52′*	30.00	762.0	81.0	27.2	77	nne.	.....	.....	2	.....	6	.....	.....	0	0	2	ne.	d. clouds.
LEYLAND LINE.																		
S. S. Iberian, N. 51° 03′. W. 19° 57′	29.51	749.5	.....	.....	.....	wnw.	.....	.....	3	.....	8	.....	wnw.	7 h'r	7 h'r	mod.	wnw.	
MALLORY LINE.																		
S. S. Colorado, N. 24° 30′, W. 82° 56′†	30.03	762.7	75	23.9	.....	sse.	.....	.....	2	.....	1	.....	se.	0	0	sm'h	s.	hazy.
MERCHANTS' EXPRESS LINE.																		
S. S. Freja, N. 49° 44′, W. 12° 38′†	29.65	753.1	53	11.7	86	s.	.....	.....	5	.....	.....	.....	s.	4 h'r	4 h'r	mod.	wsw.	raining.
S. S. Hermod, N. 40° 35′, W. 70° 00′*†	29.66	753.4	39.2	4.0	.....	w.	.....	.....	2	.....	0	.....	.....	0	0	sm'h	.....	clear.
NATIONAL LINE.																		
S. S. Canada, N. 49° 31′ W. 80 00′†	29.54	750.3	51	10.6	.....	wsw.	.....	.....	3	.....	10	.....	w.	0	0	sm'h	e.	hazy.
S. S. Emrland, Liverpool, Eng	29.51	749.5	.....	.....	.....	sse.	.....	.....	2	.....	8	.....	.....	0	0	.....	.....	cloudy.
S. S. Erin, London, England	29.74	755.4	56	13.3	.....	ne.	.....	.....	2	.....	2	.....	sw.	1 h'r	1 h'r	.....	.....	clear.
S. S. Helvetia, N. 46° 30′, W. 36° 53′	29.76	755.9	46	7.8	.....	wnw	.....	.....	3	.....	3	.....	nw.	0	0	mod.	wnw.	fine.
S. S. Italy, N. 40° 40′, W. 63° 30′	29.83	757.7	.....	.....	.....	nnw.	.....	.....	5	.....	2	.....	nw.	5 h'r	5 h'r	sli't	nw.	clear.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Niagara, N. 34° 55′ W. 75° 15′†	30.15	765.8	64	17.8	.....	n.	.....	.....	3	.....	6	.....	nne.	0	0	mod.	nne.	fair.
S. S. Santiago, N. 31° 00′, W. 74° 05′	.....	.....	70	21.1	.....	n.	.....	.....	3	.....	1	.....	n.	0	0	long	n.	fine.
NEW YORK, HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, N. 24° 45′. W. 80° 28′*†	30.18	766.6	78	25.6	.....	calm	.....	.....	0	.....	0	.....	.....	0	0	mod.	n.	hazy.
S. S. City of Puebla, Sacrificious Id, Gulf of Mexico.†	29.99	761.7	71	21.7	.....	nnw.	.....	.....	3	.....	10	.....	nnw.	.....	.....	mod.	nnw.	
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Atlas, St. Marc Haytl, W. I.*†	30.16	766.1	80	26.7	.....	e.	.....	.....	1	.....	.....	.....	.....	.....	.....	sm'h	.....	clear.
S. S. P. Caland, N. 40° 36′ W. 70° 56′	29.94	760.5	41.0	5.0	.....	nw.	.....	.....	4	.....	.....	.....	.....	.....	.....	2	wnw.	fine.
S. S. W. A. Scholten, N. 41° 45′, W. 51° 30′	29.77	756.1	40.0	4.4	.....	ese.	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	gloomy.
NORTH GERMAN LLOYD.																		
S. S. Elbe, N. 48° 45′ W. 24° 09′	29.66	753.4	51.8	11.0	40	w.	.....	.....	3	.....	10	.....	w.	3½ h'r	3½ h'r	mod.	w.	rainy.
S. S. Graf Bismarck, N. 16° 53′, W. 25° 01′	30.18	766.6	71.6	22.0	.....	ne.	.....	.....	6	.....	3?	.....	ne.	0	0	mod.	ne.	cloudy ?
S. S. Hermann, N. 40° 09′, W. 59° 29′†	29.56?	750.8?	53 6	12.0	.....	ne.	.....	.....	3	.....	4	.....	nw.	9 h'r	9 h'r	sm'h	.....	clearing.
S. S. Hohenzollern, N. 34° 34′, W. 16° 06′*	30.23	767.8	57.2	14.0	.....	nne.	.....	.....	2–5	.....	10	.....	nw.	0	0	sm'h	nnw.	cloudy.
S. S. Koln, N. 46° 36′, W. 37° 29′*	29.69	754.1	54.5	12.5	90	sw.	.....	.....	2	.....	10	.....	.....	0	0	mod.	w.	cloudy.
S. S. Kronprinz F. Wilhelm, N. 50° 16′ W. 2° 42′	29.80	756.9	50.0	10.0	.....	sse.	.....	.....	2	.....	10	.....	.....	0	0	2	se.	cloudy.
S. S. Lepzig, N. 47° 12′. W. 27° 37′	29.71	754.6	57.0	13.9	63	calm	.....	.....	0	.....	8	.....	wsw.	1 h'r	1 h r	sm'h	wsw.	fair.
S. S. Main, N. 42° 10′, W. 47° 52′	29.92	760.0	46.4	8.0	.....	ne.	.....	.....	2	.....	4	.....	ne.	0	0	sm'h	ne.	clear.
S. S. Neckar, N. 48° 16′, W. 23° 21′	29.69	754.1	55.6	13.1	.....	w.	.....	.....	1–2	.....	5	.....	.....	0	0	sm'h	wsw.	
S. S. Nurnburg, N. 49° 18′, W. 13° 52′*	29.54	750.3	52.7	11.5	.....	nw.	.....	.....	6	.....	10	.....	nw.	1¾ h'r	1¾ hr	cross	ne.	misty.
S. S. Oder, N. 46° 00′, W. 34° 50′	29.72	754.9	48.2	9.0	.....	w.	.....	.....	3	.....	2	.....	w.	0	0	sm'h	nw.	fair.
S. S. Ohio, N. 37° 54′, W. 64° 22′	29.76	755.9	.....	.....	.....	nw.	.....	.....	7	.....	6	.....	n.	14 h'r	14 h'r	cross	nnw.	fair.
S. S. Rhein, N. 30° 58′, W. 69° 10′	29.95	760.7	.....	.....	.....	n.	.....	.....	2	.....	3	.....	n.	0	0	mod.	n.	clear.
S. S. Saller, N. 42° 14′, W. 63° 29′	29.84	757.9	36.5	2.5	.....	nw.	.....	.....	3	.....	0	.....	.....	0	0	mod.	nw.	clear.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Belgic, San Francisco, Cal.†	30.13	765.3	50	10.0	72	nw.	.....	.....	2	.....	2	.....	nw.	0	0	sm'h	.....	clear.
S. S. Oceanic, N. 26° 10′ E. 121° 30′*	30.03	762.7	64	17.8	89	nne.	.....	.....	4	.....	5	.....	ne; sw.	.....	.....	4	nne.	fine.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, N. 33° 23′, W. 78° 10′†	30.11	764.8	.....	.....	.....	nne.	.....	.....	5	.....	10	.....	ne.	0	0	.....	nne.	clear.
S. S. Seminole, N. 34° 55′, W. 75° 30′ †	30.17	766.3	56	13.3	75	nne.	.....	.....	5	.....	5	.....	nnw.	6 h'r	6 h'r	sm'h	nne.	fair.
OREGON IMPROVEMENT COMPANY.																		
S. S. Mississippi, N. 40° 38′ W. 124° 36′†	30.37	771.4	48	8.9	78	nnw.	.....	.....	3	.....	0	.....	.....	.....	.....	mod.	nw.	clear.
S. S. Willamette, Seattle, Wash. Ter*†	30.32	770.1	51	10.6	79	wnw.	.....	.....	2	.....	2	.....	w.	0	0	.....	.....	clear.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. City of Chester, N. 53° 23′ W. 129° 16′*†	30.28?	769.1?	39	3.9	?	se.	.....	.....	1	.....	0	.....	.....	.....	.....	.....	.....	clear.
S. S. Oregon, San Francisco, Cal†	30.07	763.8	41	5.0	91	nw.	.....	.....	2	.....	0	.....	.....	.....	.....	.....	.....	clear.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, N. 35° 09′, W. 120° 45′†	30.00	762.0	47	8.3	70	nne.	.....	.....	3	.....	0	.....	.....	.....	.....	mod.	nw.	clear.
S. S. Idaho, San Francisco, Cal.†	30.11	764.8	50	10.0	86	sw.	.....	.....	1	.....	0	.....	.....	.....	.....	.....	.....	clear.
S. S. State of California, N. 42° 00′, W. 124° 45′†	30.34	770.6	45	7.2	84	nw.	.....	.....	4	.....	5	.....	w.	.....	.....	mod.	w.	fair.
S. S. Victoria, Nanaimo, Vancouver's I'd, B.C.†	30.15	765.8	41	5.0	82	calm	.....	.....	0	.....	10	.....	sw.	.....	.....	.....	.....	drizzling.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, Sydney, N. S. W	29.89	759.2	61	16.1	82	s.	.....	.....	2	.....	2	.....	.....	.....	.....	.....	.....	clear
S. S. City of New York, Sydney, N. S. W.†	29.91	759.7	68	20.0	84	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	.....	clear.
S. S. City of Pekin, N. 13° 30′ W. 89° 36′†	29.93	760.2	80	26.7	82	calm	.....	.....	0	.....	2	.....	.....	.....	.....	sm'h	.....	hazy.
S. S. City of Rio de Janeiro, San Jose, Guatamala *†	30.12	765.0	77	25.0	91	calm	.....	.....	0	.....	0	.....	.....	.....	.....	sm'h	sw.	clear.
S. S. City of Sydney, N. 33° 42′. W. 133° 20′†	30.47	773.9	56	13.3	63	e.	.....	.....	2	.....	8	.....	n.	0	0	mod.	ne.	cloudy.
S. S. City of Tokio, N. 36° 23′, W. 163° 27′†	30.00	762.0	54	12.2	74	n.	.....	.....	2	.....	5	.....	n.	8 h'r	8 h'r	light	nw.	fair.
S. S. Clyde, N. 8° 23′, W. 83° 44′†	29.91	759.7	81	27.2	83	nw.	.....	.....	1	.....	2	.....	nw.	0	0	light	sw.	clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
PACIFIC MAIL STEAMSHIP COMPANY.—CONTINUED.																		
S. S. Colon, Aspinwall, Panama†	29.96	761.0	81	27.2	.....	ne.	.....	.....	3	.....	5	.....	ne.	0	0	sm'h	.....	fair.
S. S South Carolina, Panama, Panama†	30.06	763 5	83	28.3	71	calm	.....	.....	0	.....	5	.....	var.	0	0	sm'h	.....	fair.
S. S. Zelandia, N. 27° 14′, W. 146° 57′	30.25	768 3	68	20.0	74	ene.	.....	.....	2	.....	5	.....	ene.	.....	.....	mod	ne.	
QUEBEC STEAMSHIP COMPANY.																		
S. S. Muriel, Trinidad, W. I.	30.01	762.2	82	27.8	.....	calm	.....	.....	0	.....	0	.....	.....	0	0	sm'h	.....	fair.
S. S. Bermuda, N. 39° 02′, W. 72° 00′†	30.03	762.7	46	7.8	.....	nw.	.....	.....	4	.....	0	.....	.....	0	0	sm'h	.....	fine.
RED STAR LINE.																		
S. S. Belgenland, Antwerp, Belgium †	29.79	756.7	50	10.0	?	nne.	.....	.....	2	.....	5?	.....	e.	0	0	.....	.....	overcast?
S. S. Rhynland, N. 45° 21′, W. 38° 06′†	29.75	755.6	49	9.4	78	wnw.	.....	.....	5	.....	5	.....	wnw.	0.02	0.5	long	wnw.	cloudy.
S. S. Switzerland, N 45° 55′, W. 30° 59′†	29.75	755.6	.....	.....	.....	wnw.	.....	.....	2	.....	10	.....	wnw.	0	0	long	w.	cloudy.
S. S. Vaderland, Antwerp, Belgium	29.60	751.8	57	13.9	81	ese.	.....	.....	3	.....	8	.....	sse.	0	0	.....	.....	cloudy.
S. S. Waesland, N. 40° 07′, W. 70° 02′	29.94	760.5	46	7.8	.....	nw.	.....	.....	4	.....	0	.....	.....	0	0	sm'h	nw.	clear.
ROTTERDAM LINE.																		
S. S. Schiedam, New York, N. Y*	30.04	763.0	47.3	8.5	66	nnw.	.....	.....	5	.....	8	.....	nw.	c	o	.....	.....	cloudy.
STATE LINE.																		
S. S. State of Florida, N. 54° 01′, W. 14° 21′	29.34	745 2	50	10.0	.....	ese.	.....	.....	6	.....	10	.....	s.	13 h'r	13 h'r	mod.	sse.	hazy.
S. S. State of Indiana, N. 42° 27′, W. 56° 40′†	29.59	751.6	44	6.7	.....	e.	.....	.....	4	.....	4	.....	ese.	0	0	sm'h	.....	fair.
THINGVALLA LINE.																		
S. S. Thingvalla, N. 59° 10′, W. 5° 59′†	29.89	759.2	41.9	5.5	.....	w.	.....	.....	3	.....	3	.....	w.	5 h'r	5 h'r	r'gh	wnw.	clear.
WARREN LINE.																		
S. S. Iowa, N. 42° 47′, W. 46° 41′*†	30.08	764.0	42	5.6	.....	nne.	.....	.....	3	.....	3	.....	nne.	0	0	con.	.....	clear.
WHITE CROSS LINE.																		
S. S. Hermann, N. 40° 28′, W. 49° 20′†	30.05	763.3	.....	.....	.....	ese.	.....	.....	2	.....	10 n	.....	ssw.	rain	rain	sm'h	.....	cloudy.
WHITE STAR LINE.																		
S. S. Celtic, N. 47° 35′, W. 34° 25′†	29.71	754 6	42	5.6	.....	w.	.....	.....	4	.....	5	.....	w.	8 h'r	8 h'r	h'vy	nw.	fair.
WILSON LINE.																		
S. S. Romano, N. 41° 26′ W. 62° 00′*†	29.60	751.8	52	11.1	.....	ne	.....	.....	.....	.....	10	.....	.....	0	0	mod.	.....	overcast.
S. S. Salerno, N. 49° 52′, W. 5° 53′*	29.68	753.9	49.0	9.4	89	s.	.....	.....	3-5	.....	10	.....	s.	.....	.....	sli't	ese.	misty.
WINSOR LINE.																		
S. S. Catherine Whiting, Narraganset Bay,†	30.04	763.0	.....	.....	.....	nw.	.....	.....	1	.....	0	.....	.....	0	0	.....	.....	
MISCELLANEOUS.																		
Sch. Addie Fuller, N. 31° 00′ W. 79° 30′†	30.20	767.1	73	22.8	72	une.	.....	.....	3	.....	10 8	.....	ne.	0	0	mod.	ne.	cloudy.
Bk. Adelaide, Rio de Janeiro, Brazil*†	30.05	763.3	78	25.6	.....	calm	.....	.....	0	.....	... ...	.....	.....	.....	.....	.....	.....	
Schr. Ajax, Mobile, Ala†	30.26	768.6	.....	.....	.....	n.	.....	.....	3	.....	9	.....	n.	0	0	.....	.....	cloudy.
Bk. Alpha, Off Turk Island, Bahamas*†	30.02	762.5	79	26.1	.....	ese.	.....	.....	3	.....	3	.....	ese.	0	0	sm'h	.....	fair.
Bk. Antioch, S. 37° 50′, W. 0° 01′*†	29.75	755.6	62	16.7	.....	s.	.....	.....	4	.....	10	.....	sw.	24 h'r	24 h'r	sm'h	nw.	rainy.
Schr Asa Eldridge, Key West, Fla†	29.97	761.2	.....	.....	.....	ssw.	.....	.....	3	.....	5	.....	ssw.	1 h'r	1 h'r	.....	.....	
Bk. Aureola, N. 6° 06′, W. 29° 10′*†	30.10	764.5	88	31.1	.....	nne.	.....	.....	4	.....	5	.....	nne.	0	0	mod.	ne.	hazy.
Schr. Annie M. Smull, S. 42° 13′, E. 40° 40′*†	29.50	749.3	58	14.4	.....	nw.	.....	.....	.....	.....	.....	.....	w.	4 h'r	4 h'r	.....	.....	
Bkt. Carrie Heckle, N. 20° 41′, W. 73° 11′*†	30.20	767.1	79	26.1	.....	ene.	.....	.....	3	.....	2	.....	e	0	0	sm'h	e.	clear.
Bk. Celestina, S. 27° 47′, W. 43° 44′*†	30.18	766.6	.....	.....	.....	sw.	.....	.....	3	.....	4	.....	sse.	0	0	mod.	sse.	fair.
Bk. Champion, N. 42° 11′, W. 40° 14′†	30.01	762.2	.....	.....	.....	nw.	.....	.....	6	.....	5	.....	wnw.	0	0	sm'h	wnw.	
S. S. Compton, N. 33° 16′, W. 77° 32′†	29.96	761.0	.....	.....	.....	nnw.	.....	.....	4	.....	9	.....	nnw.	1 h'r	1 h'r	slight	n.	clearing.
Dora, N. 27° 40′, W. 79° 30′†	30.13	765.3	75.7	24.3	.....	nw.	.....	.....	2-3	.....	8	.....	wnw.	3 h'r	3 h'r	sm'h	.....	cloudy.
Bk. E. L. Pettingill, N. 31° 17′, W. 134° 37′†	30.50	774.7	.....	.....	.....	ne.	.....	.....	4	.....	8	.....	ne.	0	0	sm'h	ene.	d. clouds.
S. Enoch Train, N. 43° 41′ W. 36° 18′*	29.76	755.9	.....	.....	.....	w.	.....	.....	3	.....	2	.....	w.	0	0	short	sw.	fine.
S. Exporter, N. 11° 20′, W. 27° 40′*†	30.15	765.8	.....	.....	.....	e.	.....	.....	5	.....	1	.....	e.	0	0	long	e.	fine.
S. Festina Lente, N. 41° 38′, W. 48° 10′*	30.00	762.0	45	7.2	.....	wnw.	.....	.....	2	.....	4	.....	nw.	0	0	sm'h	.....	fair.
U.S.F.C.S.S. Fish Hawk, Quantico, Va†	30.28	769.1	47	8.3	62	nw.	.....	.....	5	.....	3	.....	nw.	0	0	.....	.....	clear.
S. Grecian, S. 40° 06′ W. 1° 20′*†	29.75	755.6	55	12.8	.....	sw.	.....	.....	4	.....	6	.....	ssw.	6 h'r	6 h'r	long	sw.	
Bk. Freya, N. 38° 28′ W. 50° 08′	.....	.....	60	15.6	.....	sse	.....	.....	5	.....	10	.....	ssw.	1 h'r	1 h'r	mod.	sse.	cloudy.
Bk. Granville, S. 34° 22′, E. 24° 50′*†	30.11	764.8	.....	.....	.....	wnw.	.....	.....	1	.....	.....	.....	wnw.	0	0	long	w.	clear.
Schr. Hattie G. McFarland, Baltimore, Md*†	30.16	766.1	52	11.1	.....	nw.	.....	.....	1	.....	3	.....	nw.	0	0	.....	.....	fair.
Schr. Henry Denison, Port Antonio, Jamaica†	30.02	762.5	.....	.....	.....	ene.	.....	.....	1-3	.....	3	.....	ene.	0	0	.....	.....	fine.
S. Hedwig, N. 41° 15′, W. 47° 47′	29.98	761.5	48.6	9.2	85	nnw.	.....	.....	1	.....	8	.....	nnw.	2 h'r	2 h'r	2	ssw.	overcast.
Schr. John L. Thomas, N. 18° 18, W. 75° 20′*†	30.20	767.1	.....	.....	.....	nne.	.....	.....	.....	.....	1	.....	e.	0	0	mod.	se.	fine.
Bg. John Wesley, Sagua la Grande, Cuba, W. I.†	29.95	760.7	82	27.8	.....	n.	.....	.....	1	.....	2	.....	.....	0	0	.....	.....	clear.
Bk. Jona, N. 41° 09′, W. 42° 34′*†	30.20	767.1	.....	.....	.....	sw.	.....	.....	2	.....	2	.....	w.	0	0	cross	w.	clear.
Bkt. Josephine, Aspinwall, Panama*†	30.03	762.7	84	28.9	71	ne.	.....	.....	5	.....	2	.....	nne.	0	0	.....	.....	fair.
S. Lake Erie, N. 40° 40′, W. 52° 06′	29.76	755.9	.....	.....	.....	e.	.....	.....	6	.....	10	.....	.....	h'vy	h'vy	sm'h	s.	
Bk. Liberia, N. 18° 29′, W. 25° 48′*†	30.10	764.5	74	23.3	76	ene.	.....	.....	5	.....	4	.....	ne.	0	0	long	.....	fine.
Light House Tender, Laurel, Key West, Florida†	30.09	764.3	79	26.1	.....	sw.	.....	.....	1	.....	8	.....	sw.	1 h'r	1 h'r	.....	.....	cloudy.
Schr. Maggie Abbot, N. 26° —′, W. 69° —′*†	30.18	766.6	.....	.....	.....	ssw.	.....	.....	.....	.....	.....	.....	.....	0	0	.....	.....	clear.
S. S. Malabar, N. 37° 42′ E. 7° 47′*†	29.77	756.1	.....	.....	.....	w.	.....	.....	6	.....	5?	.....	w.	0	0	hv'y	w.	cloudy?
Bg. Medina, Key Francis, W. I.†	30.21	767.3	.....	.....	.....	nw.	.....	.....	1	.....	2	.....	nne.	.....	.....	.....	.....	fine.
S. S. Nebo, Santos, Brazil*†	30.10	764.5	.....	.....	.....	calm	.....	.....	0	.....	8	.....	.....	10 h'r	10 h'r	.....	.....	cloudy.
S. S. New York, N. 38° 20′, E. 1° 29′*†	30.05	763.3	.....	.....	.....	wnw	.....	.....	.....	.....	.....	.....	wnw.	0	0	hv'y	nw.	fair.
Bk. Peppina, Gironde River, France†	29.82	757.4	55	12.8	87	nw.	.....	.....	3	.....	5?	.....	nw.	.....	.....	long	nw.	cloudy.?
S. S. Radnorshire, N. 46° 20′, W. 14° 57′*†	29.64	752.8	.....	.....	.....	wnw.	.....	.....	5	.....	10	.....	wnw.	16 h'r	16 h'r	mod.	wsw.	raining.
S. Salisbury, N. 8° 03′ W. 30° 02′*	30.04	763.0	80.6	27.0	83	ne.	.....	.....	3-4	.....	4	.....	ne.	0	0	mod.	ne.	fair.
Schr. S. B. Hubbard, New London, Conn*†	29.99	761.7	55	12.8	.....	n.	.....	.....	1	.....	2	.....	ne.	0	0	.....	.....	fine.
Bkt. Spotless, S. 4° 30′, W. 30° 29′*†	.....	.....	.....	.....	.....	sw.	.....	.....	.....	.....	.....	.....	.....	.....	.....	h'vy	sse.	squally.
Bk. Stella, S. 47° 05′, W. 78° 55′*	29.82	757.4	50.0	10.0	89	wnw.	.....	.....	5	.....	8	.....	w.	.....	.....	mod.	w.	showery.
Washington, N. 37° 00′, W. 61° 38′*†	29.55	750.6	.....	.....	.....	ne.	.....	.....	6	.....	8	.....	.....	11 h'r	11 h'r	r'gh	sse.	fair.
Bg. Wauburn, S. 1° 20′, W. 35° 40′*†	30.00	762.0	.....	.....	.....	baff.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	heavy rain.
S. Wm. Woodbury, N. 41° 52′, W. 39° 54′*†	29.95	760.7	56	13.3	.....	sw.	.....	.....	4	.....	.....	.....	w.	.....	.....	cross	w.	clear.

International Chart I. April 16, 1882. Isobars and Isotherms.



UNITED STATES OF AMERICA.

By Order of the Secretary of War.

W.B. Hazen, Chief Signal Officer.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON APRIL 17, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours	.....	.....	30.15	765.8	69.4	20.8	78	w.	.....	.....	3	.....	0	.....	.....	0	0	clear	Moiroud.
Algiers	.....	.....	30.10	764.5	67.3	19.6	55	wnw.	.....	.....	0	.....	1	.....	.....	0	0	very fair	Nicolas.
La Calle	.....	.....	30.07	763.7	65.1	18.4	80	nw.	.....	.....	4	.....	3	.....	.....	0.079	2.0	pretty fair	Foufréde.
Tunis	.....	.....	30.00	762.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.17	766.3	66.6	19.2	42	wnw.	.....	.....	1	.....	0	.....	.....	0	0	clear	Dumas.
Tebessa	.....	.....	30.15	765.8	46.8	8.2	94	nw.	.....	.....	1	.....	1	.....	.....	0.244	6.2	very fair	Derché.
Gerlville	.....	.....	.....	.....	64.4	18.0	17	nnw.	.....	.....	1	.....	0	.....	.....	Inap.	Inap.	clear	Louchamp.
Laghouat	.....	.....	30.24	768.1	64.4	18.0	41	sw.	.....	.....	2	.....	0	.....	.....	0	0	clear	Abraham.
Biskra	.....	.....	30.16	766.1	74.5	23.6	28	nnw.	.....	.....	3	.....	1	.....	.....	0	0	very fair	Malau.
Australian.																			
Melbourne, Victoria	30.08	764.0	30.17	766.3	56.2	13.4	74	ssw.	2	0.9	.....	.....	10	.....	.....	0.11	2.8	dull	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.25	742.9	29.79	756.7	57.6	14.2	62	sw.	.....	.....	1	.....	10	.....	.....	0.287	7.3	.....	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.04	737.6	29.80	756.9	54.7	12.6	63	ene.	9.4	4.2	.....	.....	10	.....	.....	0.126	3.2	.....	Dr. Wierzbiski.
Eperies	28.89	733.8	29.72	755.0	57.0	13.9	78	nw.	.....	.....	2	0	7 cks	.....	n.	0.205	5.2	.....	Julius Mikolik.
Gratz	28.54	725.0	29.77	756.1	60.4	15.8	69	s.	.....	.....	2	.....	5	.....	.....	0.354	9.0	.....	Andreas Rospini.
Hermannstadt	28.37	720.5	29.74	755.3	69.6	20.9	44	ssw.	.....	.....	2	.....	10	.....	.....	0	0	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.48	723.3	29.82	757.3	50.7	10.4	81	calm	.....	.....	0	.....	10	.....	.....	0	0	gloomy	The Staff.
Lemberg	28.85	732.8	29.83	757.6	55.2	12.9	57	e.	.....	.....	2	.....	4	.....	.....	0.012	0.3	.....	Dr. T. Stanecki.
Pola	29.72	754.9	29.83	757.7	59.9	15.5	78	wnw.	.....	.....	1	.....	5	.....	.....	0	0	.....	I. R.Hydrographic Office.
Szathmar	29.30	744.2	29.76	755.9	67.3	19.6	49	w.	.....	.....	3	.....	9	.....	.....	0.484	12.3	thnd'r storm	Joseph Midlinszky, S. J.
Szegedin	29.50	749.4	29.78	756.5	58.5	14.7	76	s.	.....	.....	4	.....	10	.....	.....	0.106	2.7	.....	Karl Stancel.
Trieste	29.75	755.7	29.85	758.3	59.7	15.4	77	calm	.....	.....	0	.....	9	.....	.....	0	0	.....	Rieder.
Vienna	29.11	739.3	29.82	757.4	54.9	12.7	60	nw.	.....	.....	2	.....	4	.....	.....	0.059	1.5	.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.20	741.7	29.30	744.2	42.4	5.8	92	s.	13	5.8	.....	.....	10	.....	.....	0.090	2.3	misty	W. Boswell.
Armagh, Observatory	29.06	738.1	29.30	744.2	48.6	9.2	77	sw.	13	5.8	.....	.....	10	.....	.....	.....	.....	gloomy	S. Call.
Bidston, Liverpool Obs'y	.....	.....	29.30	744.2	53.1	11.7	76	sse.	9	4.0	.....	.....	10	.....	.....	.....	.....	overcast	John Hartnup.
Bolton, Sharples	28.78	731.0	29.30	744.2	47.8	8.8	92	sse.	6	2.7	.....	.....	10	.....	.....	.....	.....	overcast	Thomas Mackereth. [A.S.
Bradford, Yorkshire	28.91	734.3	29.31	744.5	50.1	10.1	84	se.	.....	.....	2	.....	9	.....	.....	0.06	1.5	overcast	J.McLandsborough, F. R
Bridgetown, Barbadoes	30.00	762.0	30.03	762.7	82.0	27.8	70	ne.	.....	.....	2	.....	2	.....	.....	.....	.....	d. clouds	Corpl.J.Surgenor, A. H.C.
Oardington	..	.....	29.35	745.5	58.0	14.4	76	se.	.....	.....	1.0	.....	8	.....	.....	.....	.....	overcast	John McLaren.
Chatham, School M. E	29.32	744.7	29.44	747.8	54.3	12.4	72	sw.	.....	.....	3	.....	9	.....	.....	.....	.....	d. clouds	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	29.22	742.2	29.45	748.0	49.2	9.6	87	wsw.	.....	.....	1	.....	10	.....	.....	.....	.....	rain & fog	The Staff.
Fort Napier, Natal	27.60	701.0	29.82	757.4	87.0	30.6	33	n.	.....	.....	1	.....	0	.....	.....	.....	.....	blue sky	Pvt. E. K Annis, A. H.C.
Free Town, Sierra Leone	29.59	751.6	29.83	757.7	87.0	30.6	72	sw.	.....	.....	1	.....	3	.....	.....	.....	.....	d. clouds	Sergt. John Robinson.
Gibraltar, Mediterranean	30.09	764.3	30.14	765.5	71.5	21.9	76	w.	.....	.....	4	.....	0	.....	.....	.....	.....	blue sky	Opl. O. Baldwin.
Glasgow, Observatory	29.05	737.9	29.26	743.2	51.5	10.8	62	wsw.	.....	.....	4	.....	9 k	.....	.....	.....	.....	d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.25	742.9	29.42	747.3	53.9	12.2	76	ssw.	.....	.....	.....	10	.....	.....	.....	.....	.....	overcast	The Staff.
Guernsey	29.22	742.2	29.51	749.5	51.5	10.8	93	wsw.	.....	.....	1	10	.....	.....	.....	.....	.....	light rain	A. Collenette, F. M, S.
Kew, Observatory	29.38	746.2	29.42	747.3	55.3	12.9	68	sw.	19	8.5	.....	10	.....	.....	.....	.....	.....	threatening	The Staff.
Leicester, Museum	29.06	738.1	29.31	744.5	55.0	12.8	73	sw.	.....	.....	1	10	.....	.....	.....	.....	.....	overcast	J. C. Smith.
Malta, Mediterranean	29.75	755.6	29.82	757.4	62.0	16.7	60	nw.	.....	.....	3	8	.....	.....	.....	.....	.....	overcast	I. H. Whysall.
Nassau, Bahamas	30.10	764.5	30.15	765.8	84.2	29.0	70	sw.	.....	.....	2	4	.....	.....	.....	.....	.....	d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	28.81	731.8	29.33	745.0	51.8	11.0	84	sse.	.....	.....	0–1	10	.....	.....	.....	.....	.....	overcast	John Mac Enall.
Oxford, Radcliffe Obs'y	29.15	740.4	29.38	746.2	54.7	12.6	73	sw.	.....	.....	4	10	.....	.....	.....	.....	.....	overcast	The Staff.
Plymouth	29.37	746.0	29.44	747.8	51.8	11.0	78	sw.	.....	.....	2	10	.....	.....	.....	.....	.....	overcast	John Merrifield.
Sandwick Manse, Orkneys	.....	.....	29.40	746.7	33.9	1.1	100	ese.	25	11.2	.....	10	.....	.....	.....	.....	.....	snowing	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.88	758.9	29.94	760.5	70.2	21.2	43	sw.	.....	.....	1	9	.....	.....	.....	.....	.....	misty	W. H. Lyne.
Sheffield	29.11	739.4	29.39	746.5	50.8	10.4	94	s.	.....	.....	1	10	.....	.....	.....	0.04	1.0	drizzling	W. F. Cooper.
Silloth Rectory	29.26	743.2	29.29	744.0	51.0	10.6	85	sw.	.....	.....	3	10	.....	.....	.....	0.045	1.2	overcast	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	29.33	745.0	49.0	9.4	80	ssw.	9	4.0	.....	10	.....	.....	.....	.....	.....	overcast	Rev. S. J. Perry.
Stratfield Turgiss	.....	.....	.....	.....	54.5	12.5	74	sw.	.....	.....	3	7	.....	.....	.....	.....	.....	d. clouds	Rev.C.H.Griffiths, F.M.S.
Truro, Royal Institution	29.39	746.5	29.43	747.5	53	11.7	73	nw.	.....	.....	4	10	.....	.....	.....	.....	.....	raining	W. Newcombe.
Valencia, Observatory	29.41	747.0	29.43	747.5	49.1	9.5	74	w.	24	10.7	.....	.....	10	.....	.....	blank	blank	squally	The Met'g'l Office.
Canadian.																			
Bathurst, N. B	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.57	751.1	29.61	752.1	37	2.8	52	w.	10	4.5	.....	.....	10 8	.....	w.	c	0	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	29.58	751.3	29.65	753.1	41	5.0	.....	nw.	9	4.0	.....	0	0	.....	.....	0	0	clear	G. A. Blair.
Father Point, Quebec*	29.70	754.4	29.72	754.9	35	1.7	89	nw.	20	8.9	.....	0	8 k	w.	.....	0	0	fair	J. McWilliams.
Fort Garry, Manitoba*	29.16	740.7	30.01	762.2	35	1.7	85	w.	2	0.9	.....	5 k	5 ks	w.	w.	0	0	cloudy	James Stewart.
Halifax, N. S*	29 56	750.8	29.69	754 1	39	3.9	62	w.	6	2.7	.....	2 ck	0	w.	.....	0	0	clear	A. Allison.
Kingston, Ontario*	29.71	754.6	30.06	763.5	38	3.3	66	w.	8	3.6	.....	5 c	0	nw.	.....	0	0	fair	A. P. Knight, M. A.
Montreal, Quebec*	29.72	754.9	29.93	760.2	38	3.3	58	w.	19	8.5	.....	5 ck	5 ks	nw.	.....	0	0	cloudy	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.40	746.7	30.11	764.8	38	3.3	89	w.	5	2.2	.....	0	0	.....	.....	0	0	clear	Rev. R. Mosley.
Port Dover, Ontario	29.49	749.0	30.20	767.1	43	6.1	76	w.	5	2.2	.....	0	0	.....	.....	0	0	clear	H. Morgan.
Port Stanley, Ontario	29.55	750.6	30.22	767.6	40	4.4	65	w.	8	3.6	.....	0	0	.....	.....	0	0	clear	M. Payne.
Quebec, Quebec*	29.50	749.3	29.83	757.7	36	2.2	82	nw.	.....	.....	5	0	5 8	.....	nw.	0	0	fair	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.54	750.3	30.01	762.2	39	3.9	73	nw.	8	3.6	.....	0	0	.....	.....	0	0	clear	W. H. McIntyre.
Saugeen, Ontario*	29.41	747.0	30.14	765.5	41	5.0	65	sw.	17	7.6	.....	0	0	.....	.....	0	0	clear	
St. Andrews, N. B	29.67	753.6	29.72	754.9	42	5.6	57	w.	7	3.1	.....	2 c	2 8	w.	.....	0	0	fair	
Sydney, C. B*	29.59	751.6	29.66	753 4	33	0.6	74	s.	4	1.8	.....	5 ck	0	nw.	.....	0	0	fair	T. C. Hill, C. E.
Toronto, Ontario*	29.77	756.1	30.16	766.1	39	3.9	65	w.	9	4.0	.....	0	0	.....	.....	0	0	clear	Magnetic Observatory.
Yarmouth, N. S*	29.70	754.4	29.77	756.1	40	4.4	67	w.	8	3.6	.....	2 c	0	w.	.....	0	0	fair	Lt. F. E. Wilmot, R. N.
Sub-aeries.																			
St. Johns, Newfoundland	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.04	763.0	30.07	763 8	70.0	21.1	73	sw.	14.2	6.3	.....	0	2 8	.....	.....	0	0	hazy	John Duthie.
Cape Town, C. G. H. Obs'y	30.14	765.5	30.18	766.6	63.1	17.3	94	wnw.	10	4.5	.....	.....	.....	.....	.....	0.080	2.0	.....	The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	OBSERVERS.
CHINESE (*Sub-series*).																			
Hankow	29.94	760.5	30.22	767.6	65.8	18.8	72	e.			2		10			0	0		N. Titoushkin.
Zi-Ka-Wei, near Shanghai	30.12	765.1	30.15	765.7	52.7	11.5	88	ese.	7.8	3.5			0			0	0	clear	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	29.68	753.8	29.72	755.0	48.7	9.3	47	ssw.	20	9			4						Oversergent Fischer.
Fanöe	29.60	751.8	29.62	752.3	47.8	8.8	83	sw.			4		5						Overloerer Lauridsen.
Godthaab, Greenland	29.56	750.9	29.61	752.0	26.2	— 3.2	87	se.			2		0						S. Kleinschmidt.
Stykkisholm, Iceland	29.77	756.2	29.82	757.3	26.2	— 3.2	94	e.			2		0						A. O. Thorlacius.
Thorshavn	29.55	750.5	29.58	751.4	35.4	1.9	65	calm			0		0						Overloerer Bergh.
Vesteryig	29.50	749.4	29.60	751.7	46.6	8.1	68	sw.			2		2						Loearer Oesterbol.
FRENCH.																			
Agen, Normal School	29.42	747.2	30.08	763.9	54.3	12.4	76	n.			2		kn		w.	0.130	3.3		M. Labroue, Director.
Alençon, Normal School	29.04	737.5	29.59	751.5	57.2	14	95	s.					10 n	s.	s.	0.04	1.	raining	M. Nicot, Director.
Arras, Engineer School	29.29	743.9	29.54	750.4	52.7	11.5	90	sse.			4		1c					covered	Capt. Bertrand, Dir.
Avginon, Normal School	29.84	757.8	29.91	759.8	66.6	19.2	46	n.			1		0			0.059	1.5	clear	M. Giraud, Director.
Bar-sur-Seine	29.19	741.3	29.74	755.3	53.6	12.0	87	s.			1		10			0	0	covered	M. Sallard, Director.
Beauvais, Normal School	29.34	745.1	29.60	751.8	54.5	12.5	83	sw.			2		10		w.	0	0	covered	M. Frère Eugène Marl.
Besançon, Normal School	28.86	733.1	29.76	755.8	58.6	14.8	82	s.			1		5 n		w.	0	0	cloudy	M. Gobin, Director.
Bordeaux, Observatory	29.60	751.8	29.86	758.4	54.9	12.7	93	sw.			3		10		wsw.	0.098	2.5	raining	M. Rayet, Director.
Bourges, Normal School	29.20	741.6	29.74	755.5	55.4	13	77	sw.			1					0.08	2.		M. Postel, Director.
Brest, Naval Observatory	29.30	744.1	29.54	750.2	54.7	12.6	93	sw.			3		10		sw.	0.079	2.0	raining	M. de Kermaree, Dir.
Caen, Normal School	29.41	747.0	29.48	748.8	58.6	14.8	60	sw.			1		8		sw.	0	0	very cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.38	746.3	29.70	754.3	55.4	13.0	66	ne.			2		5			0	0	cloudy	M. Jadot, Director.
Charleville, Normal School	29.32	744.7	29.83	757.6	54.9	12.7	56	w.			1		10			0.39	10.	covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.45	722.5	29.78	756.4	58.3	14.6	53	ssw.			2		1c		wsw.	0	0	covered	M. Allnard, Director.
Cluny, Normal School	28.96	735.5	29.79	756.6	58.6	14.8	50	s.			2			ssw.		0	0		M. de Villemontée, Dir.
Commercy, Normal School	28.82	732.1	29.67	753.6	55.4	13	59	n.			2		5 n	n.	n.			raining	Dr. Coulet, Director.
Gap, Normal School	27.30	693.5	29.80	757.0	57.2	14	38	n.			3		1		nw.	0	0		M. Jeangirard, Director.
Gréasque, du. Rhone	28.78	731.0	29.89	759.2	61.3	16.3	41	w.			3		2		sw.	0	0		M. Kint, Director.
Grenoble, Normal School	29.08	738.6	29.83	757.7	61.5	16.4	50	ne.			3		k			0.252	6.4		M. Ablard, Director.
Guéret, Normal School	28.18	715.8	29.76	755.9	49.5	9.7	89	sw.			4		10		e.	0.504	12.8	raining	M. Rivoire, Director.
Lamballe, Normal School	29.34	745.2	29.61	752 0	56.3	13.5	80	w.			6		8		w.	0.031	0.8	very cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.38	746.3	29.94	760.4	62.6	17	83	wsw.			1		10n			0.291	7.4	covered	M. Chauvin, Director.
Lorient, Naval Observatory	29.50	749.2	29.60	751.8	56.3	13.5	100	sw.			3		10			0.059	1.5	raining	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.80	731.5	29.85	758.1	57.7	14.3	58	s.			2		10 n		wnw.	0.059	1.5	covered	M. André, Director.
Mans, Normal School	29.36	745.7	29.67	753.5	54.9	12.7	80	sw.			4		10		sw.	0.04	1.	covered	M. Piboen, Director.
Marseille, Observatory	29.65	753.1	29.92	759.9	61.9	16.6	40	w.			3.4		2		wnw.	0.094	2.4		M. Stephan, Director.
Montlouis l'Instituteur	24.75	628.6	29.59	751.6	48.6	9.2	57	e.	13.0	5.8			7	w.					M. Cave, for Dr. Fines.
Montpellier, Normal School	29.76	755.9	29.89	759.2	68.0	20	58	sw.			3		2		w.	0	0	slightly cl'dy	M. Galzin, Director.
Nancy, Normal School	28.74?	730.0?	29.52?	749.8?	50.0	10	76	sw.			1		5 ck		sw.	0	0	cloudy	M. Hasse, Director
Nantes, Observatory	29.51	749.6	29.68	753.8	57.6	14.2	91	sw.			1-2		1c		sw.	0.055	1.4	light rain	M. Larocque, Director.
Perpignan, Observatory	29.84	758.0	29.95	760.7	63.3	17.4	54	se.	3.8	1.7			10		nw.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.14	537.0			28.8	— 1.8		nw.			2		10		nw.	0.547	13.9	snowy	Gen'l de Nansouty, Dir.
Privas, Normal School	28.81	731.8	29.86	758.4	61.9	16.6	80	calm			0		10			0.08	2.	covered	M. Taillieu.
Puy de Dôme Obs'y, Summit	24.90	632.4			37.0	2.8	100	wsw.			6		10			0.126	3.2	foggy	M. Allnard, Director.
Rochefort, Naval Obs'y	29.75	755.5	29.78	756.4	55.4	13.0	100	sw.			2		10			0.260	6.6	raining	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.50	749.3	29.72	754.8	55.8	13.2	95	wsw.			1		10			0.12	3.	raining	M. Mouillot, Director.
Rodez, Normal School	27.83	706.9	29.98	761.6	50.7	10.4	93	nw.			1		10			0.169	4.3	raining	M. Serger, Director.
Rouen, Normal School	29.51	749.5	29.56	750.7	59.4	15.2	76	s.			1		10		sw.	0.04	1.	covered	M. Brotier.
Saint Maur, Observatory	29.47	748.5	29.63	752.7	53.4	11.9	94	s.			2		10		s.	0.024	0.6		M. Renou, Director.
Toulouse, Observatory	29.26	743.3	29.99	761.7	55.4	13.0	98	wsw.			1		1c		w.	0.402	10.2	covered	M. Baillaud, Director.
Versailles, Observatory	29.13	739.9	29.62	752.4	55.4	13.0	84	sw.			3					0.035	0.9		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.34	745.1	29.63	752.5	55.2	12.9	89	sw.			3		10		sw.	0.028	0.7		M. Marié Davy, Director
GERMAN.																			
Bamberg	28.90	734.1	29.75	755.6	53.6	12.0	55	sw.			2	0	5 k		sw.	0.138	3.5		Prof. Dr. Hoh.
Berlin	29.55	750.5	29.72	755.0	51.8	11.0	61	se.			1		10			0	0		Prof. Dr. Arndt.
Breslau	29.31	744.5	29.84	757.9	51.1	10.6	68	se.			2		7			0	0		Royal University Obs'y.
Carlsruhe	29.35	745.4	29.78	756.4	58.6	14.8	51	sw.			2		5	sw.		0.177	4.5		Albert Senz.
Cassel	28.94	735.0	29.65	753.1	55.6	13.1	54	s.			4		7	s.		0.118	3.0		Dr. H. Möhl.
Frankfort on the Main	29.39	746 5	29.75	755.7	55.0	12.8	59	ssw.			2		10			0	0		Physical Society.
Friedrichshafen	28.39	721.2	29.82	757.3	54.7	12.6	64	w.			3		2	w.		0.220	5.6		Wilhelm, Chief Tel.
Hamburg	29.60	751.9	29.70	754.3	50.0	10.0	66	se.			3		7			0	0		E. Preller.
Kiel	29.65	753.1	29.67	753.5	49.5	9.7	51	ssw.			2		9			0	0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.34	745.1	29.76	755.8	53.2	11.8	59	sw.			4		9	sw.		0	0		H. Leppig, Asst.
Magdeburg	29.53	750.0	29.72	754.8	51.4	10.8	62	wsw.			3		10 ks		wsw.	0.224	5.7		Dr. Assmann.
Memel	29.83	757.6	29.87	758.8	45.1	7.3	65	sw.			5	4 c	0						Issermann.
Munich	28.00	711.2	29.85	758.2	55.6	13.1	50	nw.			3		6	nw.		0.020	0.5		Central Station.
Neufahrwasser	29.83	757.6	29.84	758.0	55.9	13.3	23	s.			3		10			0	0		A. Lothes.
Neustadt, Palatinate	29.24	742.8	29.77	756.1	54.1	12.3	72	s.			1		10	s.		0	0		Dicknether.
Stuttgart	28.83	732.2	29.71	754.6	56 8	13.8	59	w.			4		4	w.		0.142	3.6		Prof. Dr. Schoder.
Wustrow	29.71	754.5	29.73	755.1	50.7	10.4	60	sse.			3	0	3 k			0	0		Profs. Brandes & Reimer.
GREEK.																			
Athens	29.61	752.1	29.99	761.8	72.7	22.6		s.			2.0	2				0	0		Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.72	755.0	29.78	756.3	83.8	28.8	68	w.	33.0	14.8			0			0	0	misty	
Deesa	29.20	741.7	29.65	753.1	104.1	40.1	18	sw.	9.5	4.2			0			0	0	blue sky	
Bombay	29.70	754.4	29.74	755.3	86.5	30.3	63	wnw.	19.0	8.5			0			0	0	blue sky	
Poona, Yarrowda.	27.86	707.7	29.65	753.0	97.0	36.1	11	wnw.	27.0	12.1			0			0	0	blue sky	
Belgaum	27.23	691.5	29.72	754.9	83.0	28.3	59	W.	11.0	4.9			1		ne.	0	0	misty	
Lahore	28.91	734.3	29.62	752.3	100.2	37.9	13	n.	0.6	0.3			3			0	0	blue sky	
Roorkee	28.75	730.2	29.61	752.1	98.3	30.8	23	calm	2.8	1.2			0			0	0		
Agra	29.07	738.4	29.61	752.0	103.0	39.8	14	w.	2.2	1.0			0			0	0		
Nagpur	28.58	725.8	29.57	751.0	104.4	40.2	18	n.	3.4	1.5			0			0	0		
Jubbulpore	28.28	718.3	29.57	751.2	101.5	38.6	8	n.	2.8	1.2			0			0	0	blue sky	
Lucknow	29.28	743.6	29.64	752.7	99.5	37.5	28	e.	4.0	1.8			0			0	0	blue sky	
Allahabad	29.29	744.0	29.59	751.6	98.7	37.1	19	calm	2.5	1.1			0			0	0	blue sky	
Patna	29.52	749.7	29.70	754.3	89.2	31.8	44	ene.	10.0	4.5			0			0	0	blue sky	
Hazaribagh	27.64	702.1	29.59	751.5	91.6	33.1	26	n.	7.6	3.4			0			0	0	blue sky	
Cuttack	29.58	751.2	29.66	753.3	76.0	24.4	73	se.	6.3	2.8			8		n.	0	0	misty	
Calcutta, Alipore	29.77	756.1	29.79	756.6	79.0	26.1	57	sse.	5.0	2.2			9			0.010	2.5	drizzling	
Dhubri	29.65	753.1	29.77	756.1	80.1	26.7	67	nne.	13.7	6.1			10			0	0	overcast	
Chittagong	29.70	754.3	29.79	756.6	79.5	26.4	64	se.	4.8	2.2			0			0	0	blue sky	
Sibsagar	29.48	748.9	29.82	757.4	79.5	26.4	72	e.	2.2	1.0			8			0	0	d. clouds	
Jeypore	28.23	716.9	29.60	751.8	103.6	39.8	10	nw.	4.9	2.2			0			0	0	blue sky	
Zanzibar, Africa	29.86	758.4			79.2	26.2	89	ssw.	8.5	3.8			0			0	0	blue sky	
Bellary	28.22	716.8			101.0	38.3	21	ese.	3.8	1.7			9		s.	0.05	1.3	drizzling	
Trichinopoly	29.45	748.0			97.4	36.3	31	se.	1	0.4		5 ck	0			0	0	d. clouds	
ITALIAN.																			
Udine	29.43	747.6	29.84	758.0	60.3	15.7	72	calm	0	0			10			0	0	overcast	
Milan	29.34	745.2	29.82	757.3	61.5	16.4	56	sw.	3.1	1.4			6						Prof. Giovanni Clodig.
Padua	29.71	754.7	29.82	757.5	61.0	16.1	59	W.	2.5	1.1			5		nne.	0.028	0.7		Prof. Schiaparelli.
Moncalieri	28.93	734.7	29.82	757.5	61.2	16.2	49	se.	3.8	1.7			8		wsw.	0	0		Prof. Dott. Lorenzoni.
Genoa	29.67	753.7	29.86	758.5	59.9	15.5	64	sw.	4.9	2.2			2			0.059	1.5		Prof. P. F. Denza.
Mondovi	27.91	709.0	29.83	757.6	58.5	14.7	52	e.			2		c			0	0		Prof. G. M. Garibaldi.
													0			0.024	0.6		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
ITALIAN.—Continued.																			
Pesaro	29.80	757.0	29.85	758.2	57.6	14.2	86	n.	8.7	3.9			6			0.051	1.3		Prof. Luigi Guidi.
Florence	29.60	751.7	29.84	758.0	63.1	17.3	53	ssw.			2		7	wsw.		0.256	6.5		Prof. Costantino Pitter.
Leghorn	29.72	754.9	29.81	757.1	62.1	16.7	69	w.	1.8	0.8			2			0	0		Prof. P. Monte.
Rome	29.69	754.0	29.86	758.4	62.1	16.7	50	nnw.	0.7	0.3			7			0.126	3.2		Prof. P. S. Ferrari.
Lecce	29.62	752.3	29.87	758.7	59.2	15.1	89	nne.	9.4	4.2			10			0.429	10.9		Prof. G. de Giorgi.
Cosenza	28.98	736.2	29.87	758.7	60.4	15.8	75	wsw.	3.1	1.4			10	w.		0.039	1.0		Prof. D. Conti.
Cagliari	29.72	755.0	29.92	759.9	63.7	17.6	49	nw.			6		4	nw.		0.138	3.5		Prof. A. Pacinotti.
Palermo	29.68	753.9	29.93	760.2	61.7	16.5	61	nw.	12.5	5.6			9	nw.		0.003	1.6		Prof. G. Ciaccialatore.
Syracuse	29.76	755.9	29.80	757.0	59.0	15.0	78	nne.	11.2	5.0			10	wnw.		0.126	3.2		Prof. Vincenzo Guiliano.
Sub-series.																			
Naples, S. R	29.32	744.8	29.84	758.0	62.4	16.9	63	sw.	0	0			5	nnw.		0.157	4.0		Prof. T. Brioschi.
Stelvio	22.00	558 9			34.3	1.3	78	ne.			2		3			0	0	misty	Prof. P. F. Denza.
Valdobbia	22.01	559.0			34.3	1.3	61	n.			6		8			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Aomori	30.00	762 0	30.03	762.7	48.2	9.0	85	nw.	1.6	0.7		ck	8 s			0	0	cloudy	K. Ogawa.
Hakodate	30.03	762.7	30.04	763.0	43.5	6.4	88	e.	2.8	1.3			3			0	0	clear	
Hiroshima, I. M. Obs'y	30.11	764.8	30.12	765.0	51.6	10.9	77	n.	0.1	0.0		0	0			0	0	clear	K. Sasaki.
Kanazawa	30.04	763.0	30.15	765.8	48.7	9.3	76	se.	4.4	2.0		0	0			0	0	clear	S. Endo.
Kioto	29.98	761.5	30.16	766.0	47.9	8.8	83	sw.	2.2	1.0		0	0			0	0		M. Tojima.
Kochi	30.15	765.8	30.18	766.6	55.1	12.8	75	ene.	6.7	3.0		0	0			0	0	clear	
Nagasaki, I. M. Obs'y	29.98	761.5	30.19	766.8	51.2	10.7	88	calm	0	0		0	0			0	0	clear	S. Takehayashi.
Niigata	30.07	763.8	30.10	764.5	53.7	12.1	70	sw.	8.4	3.8		0	0			0	0	clear	
Nobiru	30.05	763.3	30.07	763.8	49.2	9.6	93	e.	7.6	3.4		0	1 s			0	0	clear	H. Midzushina.
Supporo					34.5	1.4	90	calm	0	0			0			0	0	clear	
Tokei Obs'y, Yeddo	30.03	762.7	30.10	764.5	51.0	10.6	82	s.	3.3	1.5		0	0			0	0	clear	The Staff.
Wakayama	30.09	764 3	30.15	765.8	52.9	11.6	71	ene.	2.8	1.3		0	0			0	0	clear	Y. Kuwamura.
MAURITIUS.																			
Mauritius Observatory	29.74	755.4	29.92	760.0	80.0	26.7	74	e.	12.5	5.6		0	7 ks;n		e.	0.01	0.3	fair	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.72	602.4	29.94	760.4	58.1	14.5	66	sw.				0	0			0	0	foggy	Vicente Fernandez.
Leon	24.42	620.3	30.13	765.3	57.2	14.0	70	nnw.			1	1 c	1 s	w.		inap.	inap.	foggy	Prof. M. Leal.
Mazatlan	29.74	755.3	30.00	762.0	64.0	17.8	62	nw.	1.6	0.8		1 cs	0	w.		0	0	clear	F. Quijano, U. E.
Mexico, Central Obs'y	23.14	587.8	30.23	767.8	54.1	12.3	63	calm	0	0		0	0			0	0	foggy	The Staff.
Morelia	24.34	618.2	30.50	774.6	59.0	15.0	76	se.			2	2	2	s.	s.	0	0	½ clouded	M. Tena, M. D.
Pabellon, Aguascalientes	23.96	608.6	30.007	760.37	62.2	16.8	53	w.			3	1 c	0	w.		0	0	clear	M. V. de Leon, M. E.
Puebla, Catholic Institute	23.43	595.0	30.16	766.0	53.6	12.0	82	calm	0	0			0			0	0	clear	Prof. P. Spina.
San Luis Potosi	24.25	615.9	30.22	767.8	63.5	17.5	68	nw.			1	5	1	w.	w.	0	0	½ clouded	G. Barroeta, M. D.
Zacatecas	22.53	572.2	30.19	766.7	51.7	11.0	57	sw.	11.8	5.3		0 ck	0	sw.		0	0	½ clouded	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.56	750.7	29.56	750.7	52.2	11.2		s.			4					0	0		
Groningen	29.56	750.7	29.61	752.1	51.3	10.7		s.			1					0	0		
Helder	29.55	750.5	29.55	750.5	51.1	10.6		s.			4					0.386	9.8		
Hellevoetsluis	29.76	756.0	29.76	756.0	56.5	13.6	71	s.			3					0	0		
Utrecht	29.54	750.3	29.59	751.5	55.8	13.2	63	s.			3		8			0.075	1.9	very cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.48	748.7	29.54	750.3	41.0	5.0	78	sse.	11	5			9			0.071	1.8		
Brono	29.56	750.9	29.60	751.9	37.4	3.0	51	calm	0	0			1			0	0		
Christiania	29.43	747.5	29.58	751.3	41.9	5.5	50	wsw.	9	4			2			0	0		
Gjesvær	29.65	753.0	29.67	753.6	27.7	— 2.4		ne.			2		10						
Lodingen	29.58	751.3	29.63	752.5	32.9	0.5	64	ne.			1		8						
PORTUGUESE.																			
Angra, Azores					62.1	16.7	80	wnw.	13.0	5.8			8			0	0		Dr. J. A. Sampaio.
Campo Major	29.18	741.1	30.18	766.6	59.7	15.4	66	wnw.	8.7	3.9			9			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.16	766.1	30.25	768.4	66.2	19.0	54	sw.					5			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.90	759.4	30.26	768.6	59.0	15.0	75	w.	8.7	3.9			9			blank	blank		The Staff.
Ponta Delgada, Azores	30.12	765.0	30.19	766.8	64.4	18.0	88	sw.	11.2	5.0			10			0	0		
Saint Paul de Loando	29.68	753.9	29.88	759.0	81.3	27.4	87	w.	1.8	0.8			2	s.		0	0		
Serra da Estrella	25.36	644.1	30.19	766.7	40.8	4.9	100	wnw.	31.8	14.2			10			0.669	17.0	foggy	
RUSSIAN.																			
Akmolinski	28.89	733.9	30.01	762.2	32.9	0.5	76	n.	4	2		7 ck	0			0	0		Major K. Lasarew.
Archangel	29.37	746.0	29.39	746.5	29.8	— 1.2	76	e.	13	6			10			0.079	2.0		Capt. Sseliwerstow.
Astrakhan	30.29	769.3	30.21	767.2	54.5	12.5	40	s.	13	6		0	2 s			0	0	light clouds.	Capt. Wisganow.
Barnaul	29.52	749.7	30.03	762.7	41.9	5.5	58	wsw.	4	2			3			0	0		Meteorological Obs'y.
Dorpat	29.37	745.9	29.61	752.1	41.9	5.5	56	wsw.	18	8		0	4 ks			0.024	0.6		Observatory.
Ekaterinburg	28.76	730.6	29.75	755.6	34.2	1.2	94	wsw.	16	7			10			0	0		Meteorological Obs'y.
Kasan	29.42	747.2	29.69	754.2	42.8	6.0	74	sse.	9	4			10			0.024	0.6		Observatory.
Kertch	29.86	758.5	29.88	759.0	54.0	12.2	79	sse.	22	10		0	7 n			0	0		Lagorio & Sastyrex.
Kieff	29.18	741.2	29.82	757.3	50.7	10.4	64	n.	9	4		c;cs	2 ks			0	0		Observatory.
Lugan	29.59	751.5	29.79	756.6	67.3	19.6	31	ssw.	34	15			10			0	0		Meteorological Obs'y
Moscow	29.11	739.5	29.00	751.7	39.6	4.2	39	n.	4	2			10 s			0.398	10.1		Meteorological Obs'y.
Nikolaiev	29.76	756.0	29.84	757.8	70.7	21.5	49	calm	0	0		0	0			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor	29.80	756.9	29.89	759.1	28.8	— 1.8	66	calm	0	0			0			0	0		Lieut. Iwanow.
Pekin, China	29.72	755.0	29.87	758.6	75.2	24.0	29	sw.	4	2		0	3 k			0	0		Physical Observatory
St. Petersburg	29.48	748.7	29.49	749.1	35.2	1.8	91	sw.	25	11		0	8 kn			0	0		Central Physical Obs'y
Ssemipalatinsk	29.35	745.4	30.02	762.4	45.0	7.2	50	e.	7	3		0	4			0	0		Major Lasaren.
Tashkend, Laboratory	28.23	717.0	29.78	756.5	57.0	13.9	86	n.	2	1			10			0.228	5.8	heavy cl'ds.	Telch, A. M.
Tiflis	28.69	728.6	30.05	763.3	74.7	23.7	19	nw.	4	2		3 cs	0			0	0		Physical Observatory
Vladivostok	29.93	760.2	30.00	761.9	35.4	1.9	84	calm	0	0		0	3 k			0	0		
Warsaw	29.46	748.2	29.88	758.9	51.6	10.9	40	nw.	11	5			9 k						Astronomical Obs'y
Wilna	29.46	748.2	29.88	758.9	49.3	9.6	34	w.	4	2			1			0	0	light clouds	Berg, Assistant.
Yeniseisk	29.54	750.2	29.83	757.6	39.7	4.3	50	w.	7	3			8			0	0		M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	29.86	758.4	29.97	761.1	64.4	18.	62	sw.	3.1	1.4		1 ck	0			0	0	clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	29.92	759.9	29.98	761.4	69.8	21.0	51	nw.	3.1	1.4		2	4	sw.		0.102	2.6	cloudy	Prof. Manuel de Naveran:
Burgos, Met. Obs'y	27.11	688.6	30.11	764.8	49.6	9.8	76	sw.	12.5	5.6			10			0.035	0.9	covered	Domingo Martin.
Madrid, Royal Obs'y	27.84	707.0	30.04	762.9	63.9	17.7	47	sw.	16.1	7.2		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y	29.95	760.7	30.10	764.4	74.7	23.7	43	wsw.	2.5	1.1		0	0			0	0	clear	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.10	739.1	30.00	762.1	54.1	12.3	93	ssw.	18.6	8.3			10			0.315	8.0	raining	R. Gil Vallanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I	30.06	763.5	30.13	765.2	78.5	25.8	85	ene.	6.3	2.8		2 c	7 k;n	w.	ne.	0	0	fair	Benito Vines, S. J.
Manilla, Philippine Islands	29.86	758.4	29.91	759.8	78.6	25.9	78	e.	4.8	2.1		1 c	3 kn		e.	0.425	10.8	fair	F. Faura, S. J.
San Fernando, Naval Obs'y	30.11	764.8	30.21	767.3	64.0	17.8	65	wnw.	7.5	3.4		0	0			0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	30.02	762.4	30.11	764.7	79.2	26.2	82	s.	1.1	0.5		2 cs	3 k	s.	s.	0	0		Manuel Maen.
Tuguegarao, Philippine Id's	29.85	758.2	29.98	761.5	74.7	23.7	76	nw.	4.9	2.2		0	0			0	0	clear	José L. Yrastorza.
SWEDISH																			
Haparanda	29.42	747.2	29.46	748.2	27.7	— 2.4	59	ne.			6		10			0	0		
Umea	29.36	745.7	29.41	747.0	26.2	— 3.2	87	ne.			8		10			0	0		
Hernosand	29.21	741.8	29.26	743.1	28.6	— 1.9	62	nnw.			4		10			0.177	4.5		
Stockholm	29.42	747.2	29.60	751.7	36.9	2.7	53	w.			6		0			0	0		
Wisby	29.61	752.0	29.67	753.5	39.9	4.4	80	w.			4		7			c	0		
Sub-series.																			
Upsala	29.47	748.5	29.56	750.7	34.9	1.6	53	w.	10.3	4.6			1		w.	0	0		S. G. Fineman.
SWISS.																			
Geneva	28.42	721.9	29.83	757.7	58.5	14.7	49	ssw.			3					0	0	cloudy	The Observatory

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather	Observers.
TURKISH.																			
Constantinople	.....	.....	29.99	761.7	75.2	24.0	39	sw.	4.5	2.0	.....	.....	10	.....	sw.	0	0	.....	The Observatory.
Valona	.....	.....	29.95	760.7	64.0	17.8	.....	w.	.....	.....	1	.....	10	.....	.....	.....	.....	rainy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	30.09	764.3	64.9	18.3	78	n.	.....	.....	3	0	0	.....	.....	0	0	.....	Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	29.98	761.5	30.06	763.5	49.5	9.7	39	w.	6	2.7	.....	0	0	.....	.....	0	0	clear	J. O. Barnes.
Alpena, Michigan	29.46	748.3	30.15	765.8	43	6.1	60	w.	9	4.0	.....	0	hz.	.....	.....	0	0	clear	Jas. J. Fitzgerald.
Atlanta, Georgia	29.97	738.4	30.27	768.8	53.5	11.9	86	e.	3	1.3	.....	.....	10 s	.....	.....	0	0	cloudy	H. Hall.
Atlantic City, New Jersey	30.17	766.3	30.18	766.6	46.8	8.2	58	nw.	5	2.2	.....	0	0	.....	calm	0	0	clear	Jas. M. Watson.
Augusta, Georgia	30.10	764.5	30.29	769.4	49	9.4	89	calm	0	0	.....	0	fg.	.....	.....	0	0	clear	John Healy.
Baltimore, Maryland	30.19	766.8	30.24	768.1	48	8.9	42	nw.	4	1.8	.....	0	0	.....	.....	0	0	clear	Robert Seyboth.
Barnegat, New Jersey	30.14	765.5	30.16	766.1	52.3	11.3	32	nw.	12	5.4	.....	0	0	.....	.....	0	0	clear	Chas. F. Merritt.
Bismarck, Dakota	28.12	714.2	29.99	761.7	38	3.3	82	n.	2	0.9	.....	6 c	0	sw.	.....	0	0	fair	Cyrus Cramer.
Boise City, Idaho	27.14	689.3	29.98	761.5	38	3.3	73	nw.	3	1.3	.....	3 k	1 s	w.	w.	0	0	fair	B. E. Light.
Boston, Massachusetts	29.83	757.7	29.99	761.7	45.0	7.2	41	w.	11	4.9	.....	0	0	.....	.....	0	0	clear	O. B. Cole.
Brownsville, Texas	29.98	761.5	30.03	762.7	68	20.0	93	calm	0	0	.....	.....	10 s	.....	calm	0	0	cloudy	J. C. Galloway.
Buffalo, New York	29.42	747.3	30.19	766.8	40	4.4	80	sw.	8	3.6	.....	0	hz.	.....	.....	0	0	clear	Wm. Finn.
Burlington, Vermont	29.67	753.6	29.97	761.2	46.0	7.8	47	calm	0	0	.....	5 ck	0	w.	.....	0	0	fair	G. O. Schaeffer.
Cairo, Illinois	29.94	760.5	30.34	770.6	46.7	8.2	63	se.	1	0.4	.....	0	0	.....	.....	0	0	clear	W. H. Ray.
Campo, California	27.43	696.7	30.01	762.2	38.6	3.7	92	calm	0	0	.....	.....	10 s	.....	w.	0	0	cloudy	W. H. Clendenon.
Camp Thomas, Arizona	27.14	689.3	29.87	758.7	47	8.3	52	calm	.....	.....	0	hz.	0	.....	.....	0	0	clear	J. T. Fitzgerald.
Cape Henry, Virginia	30.27	768.8	30.29	769.4	47	8.3	68	sw.	12	5.4	.....	0	0	.....	.....	0	0	clear	J. E. Lanouette.
Cape May, New Jersey	30.17	766.3	30.26	767.1	46	7.8	68	w	8	3.6	.....	0	0	.....	.....	0	0	clear	W. Bolten.
Cedar Keys, Florida	30.15	765.8	30.17	766.3	65	18.3	90	n.	10	4.5	.....	.....	10 ks	.....	n.	0.10	2.5	cloudy	F. W. Mixer.
Champaign, Illinois	29.46	748.3	30.30	769.6	42.4	5.8	72	s.	8	3.6	.....	0	0	.....	.....	0	0	clear	L. A. Welsh.
Charleston, S. Carolina	30.19	766.8	30.25	768.3	57	13.9	74	ne.	13	5.8	.....	0	0	.....	.....	0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.42	747.3	30.28	769.1	46.0	7.8	60	ne.	5	2.2	.....	0	sk.	.....	.....	0	0	clear	D. O. Donoghue.
Chattanooga, Tennessee	29.47	748.5	30.30	769.6	45.0	7.2	83	calm	0	0	.....	0	fg	.....	.....	0	0	clear	B. L. Goulding.
Cheyenne, Wyoming	23.69	601.7	29.69	754.1	36.2	2.3	66	n.	10	4.5	.....	.....	10 s	.....	sw.	0	0	cloudy	E. McGovern.
Chicago, Illinois	29.55	750.6	30.28	769.1	44.1	6.7	68	sw.	2	0.9	.....	.....	hz.	.....	.....	0	0	dense haze	J. Mitchell.
Chincoteague, Virginia	30.20	767.1	30.22	767.6	48	8.9	56	nw.	12	5.4	.....	0	0	.....	.....	0	0	clear	V. P. Temple.
Cincinnati, Ohio	29.67	753.6	30.34	770.6	41	5.0	79	n.	2	0.9	.....	0	0	.....	.....	0	0	clear	R. B. Watkins.
Cleveland, Ohio	29.53	750.0	30.29	769.4	41.8	5.4	55	sw.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. B. Newlin.
Coleman City, Texas	28.21	716.5	30.03	762.7	49	9.4	86	se.	12	5.4	.....	0	0	.....	.....	0	0	clear	L. Dorman.
Columbus, Ohio	29.45	748.0	30.32	770.1	42	5.6	65	nw.	1	0.4	.....	3 cs	fg.	.....	.....	0	0	clear	D. Cuthbertson.
Concho, Texas	28.03	711.9	29.97	761.2	51	10.6	74	se.	8	3.6	.....	2 c	0	s.	.....	0	0	fair	W. W. McConihe.
Davenport, Iowa	29.50	750.8	30.23	767.8	47	8.3	63	sw.	4	1.8	.....	0	0	.....	.....	0	0	clear	R. R. Martin.
Dayton, Washington T'y	28.36	720.3	30.11	764.8	34.2	1.2	87	sw.	1	0.4	.....	0	7 ks	.....	.....	0	0	fair	H. Clifford.
Deadwood, Dakota	25.15	638.8	29.84	757.9	33	0.6	92	calm	0	0	.....	7 cs	0	.....	.....	0	0	fair	G. W. Scott.
Decatur, Texas	.....	.....	.....	.....	53	11.7	61	se.	14	6.3	.....	0	5 ks	.....	s.	0	0	fair	D. J. Carr.
Delaware Breakwater, Del.	30.21	767.3	30.23	767.8	45	7.2	68	nw.	9	4.0	.....	0	0	.....	.....	0	0	clear	A. Schneider.
Denison, Texas	29.31	744.5	30.11	764.8	50.2	10.1	77	se.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. McGlone.
Denver, Colorado	24.39	619.5	29.66	753.4	42.5	5.8	59	nw.	6	2.7	.....	.....	10 ks	.....	w.	inap.	inap.	cloudy	F. M. Neal.
Des Moines, Iowa	29.25	742.9	30.19	766.6	43	6.1	68	s.	1	0.4	.....	0	3 s	.....	.....	0	0	clear	F. W. Conrad.
Detroit, Michigan	29.54	750.3	30.28	769.1	43.2	6.2	60	w.	6	2.7	.....	hz.	sk.	.....	.....	0	0	clear	C. F. R. Wappenhans.
Dodge City, Kansas	27.29	693.2	29.93	760.2	48	8.9	71	s.	20	8.9	.....	0	9 s	.....	.....	0	0	cloudy	E. A. Thomas.
Dubuque, Iowa	29.48	748.8	30.21	767.3	43.2	6.2	68	s.	1	0.4	.....	0	hz.	.....	calm	0	0	clear	J. Harvey Smith.
Duluth, Minnesota	29.34	745.2	30.06	763.5	38	3.3	62	sw.	2	0.9	.....	0	2 s	.....	calm	0	0	clear	N. B. Conger.
Eagle Pass, Texas	29.25	742.9	30.06	763.5	59.0	15.0	81	se.	6	2.7	.....	.....	10 s	.....	se.	0	0	cloudy	F. Belford.
Eagle Rock, Idaho	25.08	637.0	29.80	756.9	32	0.0	92	n.	3	1.3	.....	.....	10 s	.....	.....	0.27	6.9	cloudy	J. M. Clifford.
Eastport, Maine	29.66	753.4	29.73	755.1	43.5	6.4	51	w.	7	3.1	.....	4 c	0	.....	.....	0	0	fair	J. H. Melton.
El Paso, Texas	28.16	604.5	29.90	759.4	51	10.6	55	nw.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.51	749.5	30.26	768.6	43	6.1	68	sw.	4	1.8	.....	0	0	.....	.....	0	0	clear	R. H. Paxton.
Escanaba, Michigan	29.46	748.3	30.15	765.8	43	6.1	60	w.	6	2.7	.....	0	0	.....	.....	0	0	clear	C. Dill.
Florence, Arizona	28.42	721.9	29.92	760.0	41.7	5.4	66	w.	1	0.4	.....	0	hz.	.....	.....	0	0	dense haze	R. R. Herman.
Fort Apache, Arizona	24.92	633.0	29.84	757.9	34	1.1	65	sw.	9	4.0	.....	0	hz.	.....	calm	0	0	dense haze	W. C. Barnes.
Fort Assinnaboine, Montana	27.18	690.4	30.08	764.0	37	2.8	82	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	B. O. Lenoir.
Fort Bennett, Dakota	28.20	716.3	29.84	757.9	44	6.7	76	se.	10	4.5	.....	5 ck	0	w.	.....	0	0	cloudy	T. Gibson.
Fort Benton, Montana	27.22	691.4	30.08	764.0	35	1.7	72	ne.	3	1.3	.....	.....	10 ks	.....	calm	0.05	1.3	cloudy	T. Wheaton.
Fort Buford, Dakota	28.05	712.5	30.12	765.0	32	0.0	71	ne.	7	3.1	.....	0	0	.....	.....	0	0	clear	A. H. Bell.
Fort Custer, Montana	26.73	678.9	29.91	759.7	33	0.6	100	n.	12	5.4	.....	.....	10 n	.....	calm	0.12	3.0	light rain	V. Verge.
Fort Davis, Texas	25.04	636.0	29.83	757.7	49	9.4	44	sw.	3	1.3	.....	5 k	0	sw.	.....	0	0	fair	J. Williams.
Fort Elliott, Texas	27.13	689.1	29.91	759.7	44	6.7	41	se.	24	10.7	.....	0	0	.....	.....	0	0	clear	W. J. Cundall.
Fort Gibson, Indian T'y	29.57	751.1	30.15	765.8	51.5	10.8	52	se.	12	5.4	.....	0	0	.....	.....	0	0	clear	J. B. Campbell.
Fort Grant, Arizona	25.14	638.5	29.87	758.7	40	4.4	18	calm	0	0	.....	0	0	.....	.....	0	0	clear	T. J. Macgowan.
Fort Keogh, Montana	27.42	696.5	29.96	761.0	36	2.2	82	ne.	12	5.4	.....	10 cs	0	.....	.....	0	0	cloudy	W. B. Stockman.
Fort Macon, North Carolina	30.28	769.1	30.29	769.4	52	11.1	66	n.	4	1.8	.....	hz.	hz.	calm	calm	0	0	light haze	L. Leonardy.
Fort McKavett, Texas	27.75	704.8	30.01	762.2	46	7.8	63	s.	10	4.5	.....	0	0	.....	.....	0	0	clear	J. E. Thatcher.
Fort Missoula, Montana	26.71	678.4	30.02	762.5	34	1.1	100	n.	3	1.3	.....	.....	10 s	.....	.....	0.04	1.0	cloudy	J. H. Jones.
Fort St. Michaels, Alaska	30.02	762.5	30.05	763.3	5	—15.0	100	n.	7	3.1	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	A. P. Leavitt.
Fort Shaw, Montana	26.37	669.8	30.04	763.0	33	0.6	88	w.	2	0.9	.....	.....	10 s	.....	.....	0.07	1.8	cloudy	A. L. Mathews.
Fort Sill, Indian Territory	28.79	731.2	30.03	762.7	47.8	8.8	81	se.	14	6.3	.....	0	0	.....	.....	0	0	clear	T. Cleary.
Fort Stevenson, Dakota	28.13	714.5	30.03	762.7	33	0.6	88	ne.	6	2.7	.....	4 cs	0	.....	.....	0	0	fair	W. Burrows.
Fort Verde, Arizona	.....	.....	.....	.....	45	7.2	63	w.	.....	.....	4	0	0	.....	.....	0	0	clear	D. Brooks.
Fort Washakie, Wyoming	24.24	615.7	.....	.....	30.7	— 0.7	81	se.	6	2.7	.....	.....	10 n	.....	se.	0.12	3.0	light snow	T. M. Ambler.
Fredericksburg, Texas	28.28	718.3	30.00	762.0	55	12.8	93	sw.	8	3.6	.....	.....	10 s	.....	.....	0	0	cloudy	H. S. Miles.
Galveston, Texas	30.10	764.5	30.14	765.5	65	18.3	89	e.	10	4.5	.....	0	5 k; hz	.....	sw.	0	0	fair	E. O'C. MacInernev.
Grand Haven, Michigan	29.57	751.1	30.26	768.6	46.0	7.8	60	sw.	16	7.2	.....	0	0	.....	.....	0	0	clear	W. A. Reid.
Hatteras, North Carolina	30.25	768.3	30.27	768.8	52	11.1	52	w	3	1.3	.....	0	0	.....	.....	0	0	clear	R. M. Crawford.
Helena, Montana	25.75	654.0	30.01	762.2	34	1.1	82	nw.	4	1.8	.....	.....	10 s	.....	nw.	0.16	4.1	cloudy	N. C. Smith.
Henrietta, Texas	29.06	738.1	30.09	764.3	48.0	8.9	63	s.	9	4.0	.....	0	0	.....	.....	0	0	clear	J. W. Byram.
Huron, Dakota	28.50	723.9	29.95	760.7	40.8	4.4	76	se.	5	2.2	.....	3 cs	0	.....	.....	0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.48	748.8	30.30	769.6	42.5	5.8	59	calm	0	0	.....	0	hz.	.....	calm	0	0	light haze	O. Schutze
Indianola, Texas	30.06	763.5	30.09	764.3	66.3	19.1	84	se.	13	5.8	.....	0	hz.	.....	.....	0	0	clear	I. A. Reed.
Jacksboro, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. P. Sherry.
Jacksonville, Florida	30.14	765.5	30.18	766.6	63	17.2	93	ne.	4	1.8	.....	3 cs	2 s	w.	.....	0.07	1.8	fair	J. W. Smith.
Keokuk, Iowa	29.53	750.0	30.20	767.1	47.0	8.3	48	se.	6	2.7	.....	0	0	.....	.....	0	0	clear	F. Z. Gosewisch
Key West, Florida	30.12	765.0	30.14	765.5	79.0	26.1	74	ne.	5	2.2	.....	0	2 s	.....	.....	0	0	clear	L. M. Melbourne.
Kittyhawk, North Carolina	30.27	768.8	30.29	769.4	49	9.4	63	w.	11	4.9	.....	0	0	.....	.....	0	0	clear	E. A. Beals.
Knoxville, Tennessee	29.26	743.2	30.30	769.6	45	7.2	63	ne.	3	1.3	.....	0	hz.	.....	.....	0	0	clear	J. A. Cody.
La Crosse, Wisconsin	29.39	746.5	30.19	766.8	40	7.8	60	s.	12	5.4	.....	0	0	.....	.....	0	0	clear	S. C. Emery.
La Mesilla, New Mexico	26.00	660.4	29.88	758.9	40.5	4.7	41	calm	0	0	.....	0	0	.....	.....	0	0	clear	N. D. Lane.
Leavenworth, Kansas	29.25	742.9	30.16	766.1	47	8.3	63	s.	3	1.3	.....	0	hz.	.....	.....	0	0	clear	A. W. Browne.
Lewiston, Idaho	29.26	743.2	30.11	764.8	43.4	6.3	55	w.	1	0.4	.....	6 k	0	.....	.....	0	0	fair	W. Blake.
Little Rock, Arkansas	29.92	760.0	30.24	768.1	45	7.2	93	calm	0	0	.....	0	0	.....	.....	0	0	clear	W. U. Simmons.
Los Angeles, California	29.64	752 8	30.04	763.0	52.4	11.3	74	n.	5	2.2	.....	0	0	.....	.....	0	0	clear	E. F. Kubel.
Louisville, Kentucky	29.73	755.1	30.30	769.6	45	7.2	76	calm	0	0	.....	0	4 s	.....	ne.	0	0	fair	H. C. Smyth.
Lynchburg, Virginia	29.62	752.3	30.33	770.4	41.2	5.1	67	calm	0	0	.....	0	sk.	.....	.....	0	0	clear	W. R. Bushby.
Madison, Wisconsin	29.19	741.4	30.23	767.8	42	5.6	74	sw.	9	4.0	.....	0	0	.....	.....	0	0	clear	C. A. Shaw.
Marquette, Michigan	29.36	745.7	30.12	765.0	46	7.8	54	w.	14	6.3	.....	0	0	.....	.....	0	0	clear	J. Gilligan.
Mason, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	P. M. Wilson.
Memphis, Tennessee	29.95	760.7	30.29	769.4	46	7.8	60	ne.	6	2.7	.....	hz.	sk.	.....	.....	0	0	clear	D. T. Flannery.
Milwaukee, Wisconsin	29.47	748.5	30.24	768.1	45	7.2	76	sw.	11	4.9	.....	0	hz.	.....	.....	0	0	clear	W. Line.
Mobile, Alabama	30.18	766.6	30.22	767.6	51	10.6	80	n.	5	2.2	.....	0	0	.....	.....	0	0	clear	J. D. Paxton.

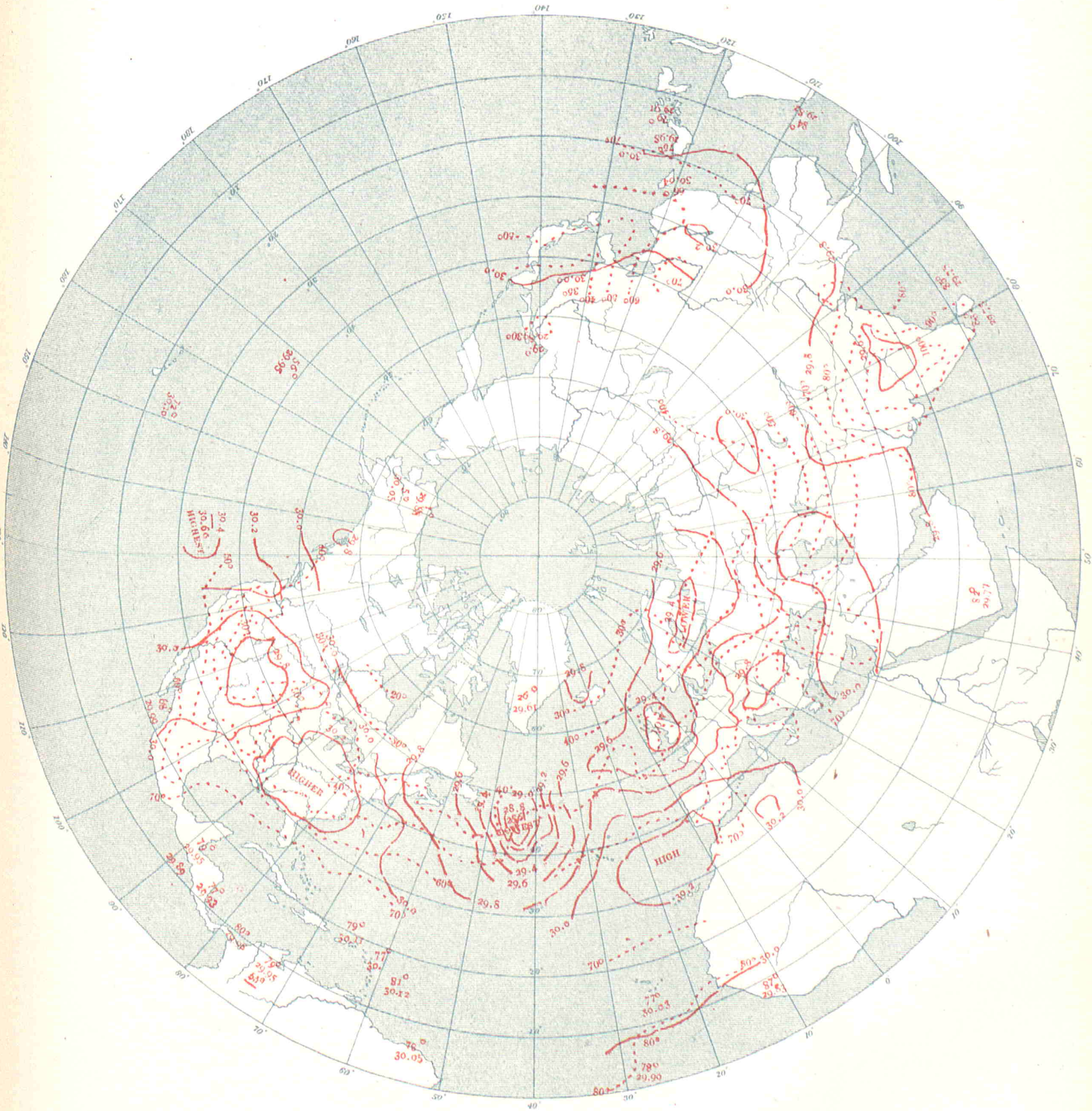
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Montgomery, Alabama	30.00	762.0	30.23	767.8	49.7	9.8	67	nw.	3	1.3		0	0			0	0	clear	J. B. McLaughlin.
Moorhead, Minnesota	28.93	734.8	29.96	761.0	42	5.6	82	se.	8	3.6		3 k	0	s.		0	0	fair	H. Bessant.
Morgantown, W. Virginia	29.29	744.0	30.33	770.4	36.0	2.2	69	calm	0	0		0	0			0	0	clear	G. C. Lewis.
Mt. Washington, N. H.	23.46	595.9	29.88	758.9	14.0	—10.0	87	nw.	67	30.0		0	0			0	0	clear	J. G. Linsley.
Nashville, Tennessee	29.76	755.9	30.30	769.6	41.0	5.0	82	nw.	1	0.4		0	fg.			0	0	clear	L. A. Jesunofsky.
New Haven, Connecticut	29.96	761.0	30.08	764.0	44	6.7	60	calm	0	0		0	0			0	0	clear	J. H. Sherman.
New London, Connecticut	29.99	761.7	30.04	763.0	48	8.9	63	w.	7	3.1		0	0			0	0	clear	J. G. Lynch.
New Orleans, Louisiana	30.13	765.3	30.19	766.8	58.2	14.6	70	ne.	8	3.6		0	0			0	0	clear	S. Dunne.
Newport, Rhode Island	29.96	761.0	30.01	762.2	46.7	8.2	53	w.	12	5.4		0	0			0	0	clear	W. McGillivray.
New River, N. Carolina					50	10.0	64	n.			1	0	0			0	0	clear	C. C. Corbin.
New Shoreham, Rhode I'd	30.01	762.2	30.04	763.0	45.6	7.6	63	nw.	16	7.2		0	3 s		nw.	0	0	clear	W. Davis.
New York, New York	29.97	761.2	30.15	765.8	45	7.2	60	sw.	4	1.8		0	0			0	0	clear	E. B. Garriott.
Norfolk, Virginia	30.26	768.6	30.29	769.4	49	9.4	71	nw.	5	2.2		0	0			0	0	clear	J. T. Elker.
North Platte, Nebraska	26.83	681.5	29.79	756.7	52.6	11.4	66	se.	20	8.9		0	8 s			0	0	cloudy	E. F. Brady.
Olympia, Washington T'y	30.16	766.1	30.20	767.1	39.0	3.9	89	s.	3	1.3			10 s		calm	0.66	1.5	cloudy	J. Dascomb.
Omaha, Nebraska	28.91	734.3	30.12	765.0	51.0	10.6	52	se.	12	5.4		0	8 s		se.	0	0	cloudy	A. Pollak.
Ooglnamie, Pt. Barrow, Alas.	29.86	758.4	29.88	758.9	— 1.2	—18.4	91	wnw.	14	6.3		0	6 s			0.01	0.3	fair	P. H. Ray.
Oswego, New York	29.76	755.9	30.10	764.5	42.0	5.6	67	w.	14	6.3		1 c	0	w.		0	0	clear	S. W. Beall.
Palestine, Texas	29.62	752.3	30.18	766.6	49.0	9.4	86	s.	5	2.2		0	0			0	0	clear	L. M. Pindell.
Pensacola, Florida	30.17	766.3	30.20	767.1	53.7	12.1	66	n.	6	2.7		0	0			inap.	inap.	clear	M. McGauran.
Philadelphia, Pa	30.10	764.5	30.20	767.1	49	9.4	37	w.	7	3.1		0	0			0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	17.41	442.2	29.69	754.1	5	—15.0	91	s.	12	5.4		4 cs	0	w.		0.04	1.0	fair	L. M. Dey.
Ploche, Nevada	23.85	605.8	29.84	757.9	27	— 2.8	80	n.	8	3.6		0	4 s		calm	0.12	3.0	fair	C. N. Kitchel.
Pittsburg, Pennsylvania	29.46	748.3	30.29	769.4	37.2	2.9	69	nw.	2	0.9		0	0			0	0	clear	J. H. Bryce.
Port Eads, Louisiana	30.16	766.1	30.17	766.3	65.5	18.6	87	ne.	14	6.3		2 khz	0	w.		0	0	clear	H. G. Christian.
Port Huron, Michigan	29.52	749.8	30.22	767.6	44.3	6.8	58	w.	7	3.1		0	0			0	0	clear	W. O. Batley.
Portland, Maine	29.82	757.4	29.87	758.7	48.0	8.9	35	sw.	12	5.4		0	0			0	0	clear	D. C. Murphy.
Portland, Oregon	30.15	765 8	30.22	767.6	42.8	6.0	83	se.	6	2.7			10 s		se.	0.07	1.8	cloudy	M. L. Hearne.
Portsmouth, N. Carolina					55	12.8	49	n.	1	0.4		3 c	0	calm		0	0	clear	F. P. Chaffee.
Prescott, Arizona	24.65	626.1	29.87	758.7	29	— 1.7	61	s.	2	0.9		0	0			0.04	1.0	clear	J. McN. Wright.
Provincetown, Mass	29.92	760.0	29.96	761.0	44.5	6.9	68	nw.	16	7.2		1 cs	0	nw.		0	0	clear	P. T. Jenkins.
Punta Rassa, Florida	30.08	764.0	30.09	764.3	72	22.2	87	s.	5	2.2		10 cs	0	w.		0.04	1.0	threatening	W. J. Evans.
Red Bluff, California	29.78	756.4	30.15	765.8	45.1	7.3	60	n.	6	2.7		0	0			0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.81	757.2	30.05	763.3	65	18.3	84	se.	2	0.9			10 s		calm	0	0	cloudy	W. H. Taylor.
Rochester, New York	29.46	748.3	30.14	765.5	42	5.6	65	w.	15	6.7		0	hz.			0	0	clear	A. T. Sherwood.
Roseburg, Oregon	29.70	754.4	30.26	768.6	40	4.4	82	calm	0	0		0	8 s		w.	0.03	0.8	cloudy	J. J. Nanry.
Sacramento, California	30.03	762.7	30.11	764.8	49.4	9.7	63	n.	9	4.0		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.68	753.9	30.30	769.6	44.1	6.7	76	s.	11	4.9		hz.	0			0	0	clear	J. H. Webber.
St. Paul, Minnesota	29.21	741.9	30.10	764.5	42.2	5.7	79	se.	6	2.7		0	0			0	0	clear	P. F. Lyons.
St. Vincent, Minnesota	29.10	739.1	30.01	762.2	32	0.0	88	n.	7	3.1		4 ck	0	nw.		0	0	fair	G. Kingsbury.
Salt Lake City, Utah	25.38	644.6	29.75	755 6	36	2.2	92	calm	0	0			10 n			0.91	23.1	light snow	J. Craig.
San Antonio, Texas	29.36	745.7	30.06	763.5	57.6	14.2	81	s.	3	1.3			8 s		n.	0	0	cloudy	E. Lane.
San Diego, California	29.97	761.2	30.04	763.0	50.7	10.4	73	e.	6	2.7		0	0			0	0	clear	A. C. Dobbins.
Sandusky, Ohio	29.59	751.6	30.29	769.4	45	7.2	53	sw.	11	4.9		0	0			0	0	clear	M. H. Perry.
Sandy Hook, New Jersey	30.12	765.0	30.16	766.1	46.0	7.8	68	nw.	12	5.4		0	0			0	0	clear	B. A. Blundon.
San Francisco, California	30.07	763.8	30.14	765.5	47	8.3	81	sw.	3	1.3		0	0			0	0	clear	N. Gorom.
Santa Fé, New Mexico	22.96	583.2	29.72	754.9	35	1.7	33	sw.	15	6.7		0	0			0	0	clear	H. U. Jones.
Savannah, Georgia	30.15	765.8	30.24	768.1	57	13.9	72	ne.	8	3.6		0	0			inap.	inap.	clear	H. W. Ford.
Shreveport, Louisiana	29.97	761.2	30.21	767.3	51	10.6	80	e.	7	3.1		0	0			0	0	clear	E. N. Meekins.
Silver City, New Mexico	24.13	612.9	29.81	757.2	38	3.3	51	w.	6	2.7		0	0			0	0	clear	J. B. Wallace.
Sitka, Alaska	29.70	754.4	29.77	756.1	39.1	3.9	82	sw.	16	7.2			10 n		sw.	0.75	19.0	light rain	J. J. McLean.
Smithville, North Carolina	30.24	768.1	30.28	769.1	56	13.3	62	e.	6	2.7		0	0			0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	28.02	711.7	30.08	764.0	32	0.0	81	calm	0	0		8 k	0	sw.		0	0	cloudy	D. Moore.
Springfield, Illinois	29.60	751.8	30.30	769.6	46	7.8	54	s.	5	2.2		0	hz.			0	0	clear	T. B. Jennings.
Springfield, Massachusetts	29.92	760.0	30.05	763.3	48.6	9.2	37	nw.	7	3.1		0	0			0	0	clear	T. S. Outram.
Springfield, Mo	28 75	730.2	30.27	768.8	46.8	8.2	62	se.	10	4.5		0	0			0	0	clear	J. B. Marbury.
Stockton, Texas	26.85	682.0	29.88	758.9	49.0	9.4	66	s.	16	7.2		0	0			0	0	clear	J. O'Dowd.
Thatcher's Island, Mass	29.86	758.4	29.91	759.7	47.5	8.6	63	nw.	20	8.9		0	0			0	0	clear	G. Liebmann.
Toledo, Ohio	29.56	750.8	30.27	768.8	44.5	6.9	56	w.	5	2.2		0	0			0	0	clear	A. Buell.
Tucson, Arizona	27.51	698.7	29.90	759.4	49	9.4	58	se.	4	1.8		0	0			0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.81	757.2	30.18	766.6	41.5	5.3	72	nw.	2	0.9		0	1 s			0	0	clear	J. Daly.
Uvalde, Texas	29.07	738.4	30.04	763.0	59	15.0	81	se.	4	1.8			10 ks		s.	0	0	cloudy	E. C. Imlay.
Vicksburg, Mississippi	29.98	761.5	30.24	768.1	49	9.4	63	ne.	3	1.3		0	hz.			0	0	clear	T. J. Kenan.
Visalia, California	29.64	752.8	30.01	762.2	38.9	3.8	76	e.	4	1.8		0	0			0	0	clear	J. T. Cochran.
Washington, D. C.	30.16	766.1	30.28	769.1	46	7.8	60	w.	3	1.3		0	0			0	0	clear	B. M. Purssell.
West Las Animas, Colorado	25.70	652.8	29.66	753.4	45	7.2	63	e.	14	6.3		0	2 s		sw.	0	0	clear	J. Grover.
Wickenburg, Arizona					35.5	1.9	88	nw.			1	0	0			0	0	clear	H. A. Kremp.
Williamsport, Pa	29.58	751.3	30.19	766.8	38	3.3	53	w.	11	4.9		0	hz.			0	0	clear	B. F. Hough.
Wilmington, N. Carolina	30.22	767.6	30.28	769.1	52	11.1	72	ne.	4	1.8		hz.	fg.			0	0	clear	E. W. McGann.
Winnemucca, Nevada	25.60	650.2	30.00	762.0	29	— 1.7	80	sw.	10	4.5		0	0			0	0	clear	J. R. Williams.
Yankton, Dakota	28.62	726.9	29.96	761.0	51	10.6	72	s.	.25	11.2		10 ck	0	sw.		0	0	cloudy	J. H. Attfield.
Yuma, Arizona	29.81	757.2	29.96	761.0	51.2	10.7	57	sw.	4	1.8		0	0			0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.06	560.3			55.0	12.8	72	sw.	2.4	1.1		0	4 ks		w.	0	0	fair	Joaquin Gomez.
Bridgetown, Barbados, W.I.	30.11	764.8	30.12	765.0	81	27.2	87	e.				5 k	5 ks	e.	e.	0	0	fair	J. A. Racker.
Buenaventura, U. S. C.																			J. I. Plume.
Guadeloupe, W. I.	29.92	760.0	29.94	760.5	77	25.0	87	e.				0	2 ks			0	0	clear	B. Bigar.
Havana, Cuba, W. I.	30.11	764.8	30.16	766.1	80	26.7	79	n.	2.4	1.1		0	8 ks		ne.	0	0	cloudy	A. Van Caneghem.
Kingston, Jamaica, W. I.	30.06	763.5	30.07	763.8	78.0	25.6	79	n.	1	0.4		0	0			0	0	fine	Robert Johnston.
Navassa, W. I.																			F. M. Everett.
Paramaribo, S. A.	30.05	763.3	30.05	763.3	78	25.6	86	e.			2	5 k	6 ks	e.	e.	0	0		Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.49	749.0	29.95	760.7	79	20.1	89	calm			0		10 ks		calm	0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.							90	ne.			3	0	0			0	0	clear	Earl Flint.
Santiago de Cuba, W. I.	30.04	763.0	30.07	763.8	77	25.0	76	n.	4.8	2.1		1 c	0			0	0	fair	Robert Mason.
York Factory, B. A.	29.90	759.4	29.95	760.7	17.0	— 8.3	92	w.	10	4.5		3 k	2 s	sw.	w.	0	0	fair	W. Wood.

STATIONS AND VESSELS.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
British Naval.																		
H. M. S. Alert, S. 5° 01′, E. 55° 21′	29.83	757.7	85	29.4	74	ssw.			2–5		9							d. clouds.
H. M. S. Alexandra, Malta Mediterranean	29.86	758.4	63.5	17.5	78	wnw.			3–5		10	wnw.						showery.
H. M. S. Bacchante, Haifa, Palestine	30.04	763.0	72	22.2	71	n.			3		2	s.						d clouds.
H. M. S. Cleopatra, N. 6° 09′, E. 79° 20′	29.75	755.6	82.5	28.1	87	wsw.			1–2		4	calm						d, clouds.
H. M. S. Comus, Pelew Island, Oceania	29.85	758.2	84	28.9	87	e.			1–4		3	ne.						d. clouds.
H. M. S. Diamond, S. 38° 50′, E. 142° 01′	30.15	765.8	57	13.9	93	s.			1		8							showery.
H. M. S. Dido, N. 17° 00′, W. 61° 45′	30.13	765.3	78	25.6		ene.			3		3	ene.				3	sw.	d. clouds.
H. M. S. Druid, N. 20° 57′, W. 73° 41′	30.10	764.5	77.5	25.3	88	calm			0		1	ne.						blue sky.
H. M. S. Dryad, N. 23° 49′, E. 57° 58′	29.66	753.4				nnw.			3		1	nw.				2	nnw.	blue sky.
H. M. S. Eclipse, S 12° 10′, E. 44° 20′			81	27.2	100	calm			0		3							d. clouds.
H. M. S. Espiegle, S. 36° 42′, E. 138° 58′	30.17	766.3	64	17.8	89	sse.			1		10					2	sse.	overcast.
H. M. S. Fawn, N. 14° 47′ E. 42° 52′	29.77	756.1	82	27.8	76	wnw.			1		1					1	wnw.	misty.
H. M. S. Gannet, S. 29° 56′, W. 71° 20′	30.17	766.3	59	15.0	76	sse.			1		8							d. clouds.
H. M. S. Garnet, Montevideo, Uruguay	30.11	764.8	58	14.4	53	ne.			3		0							blue sky.
H. M. S. Inconstant, S. 35° 00′, E. 19° 45′	30.07	763.8	64	17.8	94	sw.			4–5		10					5	sw.	raining.
H. M. S. Iron Duke, N. 22° 16′ E. 114° 10′	30.06	763.5	67	19.4	94	ene.			1		4	e.						d. clouds.
H. M. S. Lark, S. 10° 17′, E. 161° 37′	29.87	758.7	79.3	26.3		calm			0		4							d. clouds.
H. M. S. Magpie, N. 35° 25′, E. 139° 43′	30.09	764.3	57.5	14.2	64	ssw.			1		0							misty.
H. M. S. Malabar, N 27° 45′ E 34° 00′	29.93	760.2	76	24.4	90	nw.			2		0					3	nw.	blue sky.
H. M. S. Nelson, Sydney, N. S. W.	30.02	762.5	72	22.2	85	ese.			2		1	w.						blue sky.
H. M. S. Northampton, Bermuda, W. I.	29.98	761.5	66	18.9	59	nw.			6		3	nw.						d. clouds.
H. M. S. Pegasus, N. 3° 47′, E. 108° 55′	29.82	757.4	84	28.9	83	ne.			2		0					2	e.	blue sky.
H. M. S. Rambler, St. Paul de Loando, Benguela	29.87	758.7	80	26.7	95	wsw.			3		1							blue sky.
H. M. S. Rocket, Esquimalt, Vancouver Id., B. C.	30.18	766.6	42	5.6		calm			0		2							d. clouds.
H. M. S. Superb, Corfu Roads, Ionian Islands*	29.93	760.2	71	21.7	57	wsw.			1–2		3	ssw.				1	wsw.	d. clouds.
H. M. S. Tamar, N 36° 10′ W. 4° 22′	30.16	766.1	67.5	19.7	69	wsw.			3		0					1	wsw.	blue sky.
H. M. S. Thalia, S. 30° 19′, E. 12° 48′	30.18	766.6	67	19.4	79	sw.			2		1					2	sw.	blue sky.
H. M. S. Triumph, Coquimbo, Ohili	30.09	764.3	62	16.7	77	calm			0		6	se.						d. clouds.
Portuguese Naval.																		
Rio Lima, Bulama, Senegambia	30.00	761.9	82.0	27.8	65	sw.			1		0							blue sky.
Tamega, Aberdeen, China	30.10	764.6	71.5	22.0	70	calm			0		0							blue sky.
United States Naval.																		
Navy Yard. Pensacola, Fla	30.14	765.5	57	13.9	58	n.	9	4.0			0			0	0			clear.
N. Yard, Portsmouth, N. H.	29.53	750.0	46	7.8	54	w.	4	1.8			0			0	0			clear.
Naval Hospital, Yokohama, Japan	29.95	760.7	56	13.3	57	wsw.			2		0			0	0			clear.
Adams, N. 10° 36′ W. 89° 23′	29.64	752.8	78	25.6	91	ne.			4		2			0	0	mod.	ne	clear.
Alaska, Panama, Panama	29.89	759.2	79	26.1	82	nw.			2		8		n.	0	0	sm'h		cloudy.
Alert, Kobe Japan*	30.03	762.7	59	15.0	70	calm			0		0			0	0	sm'h		hazy.
Alliance, Vera Cruz, Mexico	30.07	763.8	70	21.1	85	sw.			2		10			0	0	sm'h		cloudy.
Ashuelot, Kobe, Japan	30.14	765.5	56	13.3	7	calm			0		10		calm					cloudy.
Brooklyn, Montevideo, Uruguay	30.09	764.3	59	15.0	82	n.	15	6.7			0			0.04	1.0	sm'h		clear.
Colorado, New York, N. Y.	30.01	762 2	50	10.0	52	w.	9	4.0			0			0	0			clear.
Enterprise, N. 18° 35′, W. 79° 32′*	30.04	763.0	81	27.2	91	nne.			3		2		nne.			sm'h		clear.
Essex, S. 8° 43′, W. 23° 23′	29.93	760.2	80	26.7	78	sse.			1–3		2		se.			mod.	se.	fair.
Franklin, Norfolk, Va	30.29	769.4	45	7 2	76	wsw.	6	2.7			0			0	0			clear.
Galena, Leghorn, Italy	29.89	759.2	61	16.1	94	sw.			1		2					sm'h		fair.
Independence, Mare Island, Cal.	29.96	761.0	45	7.2	92	nw.			1		0			0	0			clear.
Iroquois, Mare Island, Cal	30.09	764.3	50	10.0	65	calm			0		0							clear.
Kearsarge, N. 27° 15′, W. 71° 18′	30.08	764.0	73	22.8	90	ne.			4		8		ne.			sm'h	ne.	threatening.
Lackawana, S. 10° 07′ W. 78° 20′*	29.88	758.9	66	18.9	89	s.			0–1		10		s.			sm'h	s.	cloudy.
Lancaster, Leghorn, Italy*	29.86	758.4	64	17.8	78	sw.			2		2		calm	0	0			fair.
Marion, S. 26° 17′, E 3° 06′	30.17	766.3	70	21.1	90	se.			4		10		calm			long		cloudy.
Michigan, Erie, Pa	30.14	765.5	43	6.1	100	sw.			2		0							clear.
Minnesota, Newport, R. I.	30.00	762.0	47	8.3	62	nw.	8	3.6			0							clear.
Monocacy, Kobe, Japan	30.17	766.3	58	14.4	76	calm			0		0							clear.
New Hampshire, Newport, R. I.	29.98	761.5	52	11.1	60	nw.			5		2					sm'h		fair.
Nipsic, Marseilles, France	29.91	759.7	64	17.8	62	n.			4		2					sm'h		clear.
Onward, Callao, Peru†	30.09	764.3	65	18.3	94	sse.			2		10		n.			long	w.	cloudy.
Palos, Kobe, Japan	30.16	766.1	57	13.9	63	wnw.			1		0							fair.
Passaic, Washington, D. C.	30.26	768.6	48	8.9	85	w.			1		0							clear.
Pensacola, Callao, Peru	29.99	761.7	65	18.3	89	sse.	4	1.8			10		s.	0	0	sm'h		cloudy.
Powhatan, N. 17° 56′ W. 78° 40′	30.06	763.5	80	26.7	91	n.			3		0					sm'h		clear.
Portsmouth, Newport, R. I.	29.98	761.5	45	7.2	100	nw.			4		0					sm'h		clear.
Quinnebaug, Leghorn, Italy	29.87	758.7	61	17.2	72	ssw.			1		2		calm			sm'h		clear.
Ranger, Santiago Bay, Mexico*	29.89	759.2	68	20.0	74	nne.			2		5			0	0	sm'h		fair.
Richmond, Kobe, Japan*	30.08	764.0	59	15.0	65	calm			0		0			0	0			clear.
Saratoga, Off Newport, R. I.	30.00	762.0	48	8.9	49	nw.			3–4		0			0	0	sm'h		clear.
Shenandoah, N. 12° 31′, W. 81° 13′*	30.06	763.5	80	26.7	78	ne.			4		5		ne.			mod.	ne.	fair.
St. Louis, League Island, Pa	30.41	772.4	47	8.3	48	w.	2	0.9			0			0	0			clear.
Swatara, Kobe, Japan*	29.97	761.2	59	15.0	70	calm			0		0					sm'h		clear.
Tennessee, Port Royal, S. C.	30.28	769.1	58	14.4	100	ne.	12	5.4			2			0	0			hazy.
Vandalia, N. 34° 52′, W. 75° 28′†	30.43	772.9	61	16.1	50	n.			3		0							clear.
Wabash, Boston, Mass.	29.98	761.5	46	7.8	62	nnw.	7	3.1			2		w.	0	0			fair.
Wachusetts, Sitka, Alaska	29.69	754.1	37	2.8	100	ese.			1		10		calm			sm'h		raining.
Wyoming, Port Royal, S. C.	30.24	768.1	57	13.9	69	ne.	10	4.5			2		calm	0	0			clear.
Yantic, N. 32° 54′, W. 78° 23′*†	30.37	771.4	65	18.3	63	ne.			4		2					sm'h		clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S.S. Nova Scotian, N. 42° 44′ W. 53° 44′	29.59	751.6	39	3.9	.....	nw.	.....	.....	4	.....	2	.....	nw.	.....	.....	mod.	e.	fair.
S.S. Polynesian, Liverpool, England*	29.18	741.2	53	11.7	.....	s.	.....	.....	2	.....	9	.....	se.	1 h'r	1 h'r	.....	.....	cloudy.
S.S. Waldensian, N. 41° 57′, W. 51° 55′*	29.84	757.9	42	5.6	.....	nnw.	.....	.....	6	.....	5?	.....	nnw.	o	o	h'vy	nnw.	clear?
AMERICAN STEAMSHIP COMPANY.																		
S.S. British Crown, N. 39° 38′, W. 66° 12′†	30.22	767.6	55	12.8	.....	w.	.....	.....	3	.....	o	.....	.....	o	o	sm'h	.....	clear.
S.S. Illinois, N. 43° 05′, W. 43° 30′	28.69	728 7	57	13.9	93	w.	.....	.....	8	.....	2	.....	s.	.....	.....	h'vy	w.	clear.
S.S. Indiana, Delaware River, Del.†	30.28	769.1	48	8.9	56	nnw.	.....	.....	5	.....	5	.....	nw.	o	o	sm'h	w.	fair.
S.S. Ohio, Liverpool, Eng.†	29.32	744.7	52	11.1	100	ne.	.....	.....	3	.....	10	.....	ne.	.....	.....	sm'h	.....	cloudy.
S.S. Pennsylvania, N. 50° 40′, W. 15° 16′†	29.58	751.3	50	10.0	?	nw.	.....	.....	4	.....	.....	.....	nw.	.....	.....	r'gh	nw.	d. clouds.
ANCHOR LINE.																		
S.S. Assyria, N. 42° 48′, W. 54° 36′*†	29.77	756.1	41	5.0	.....	nw.	.....	.....	5	.....	5	.....	ne.	o	o	mod.	e.	fine.
S.S. Devonia, N. 54° 09′, W. 19° 00.′†	29.46	748.3	52	11.1	.....	nw.	.....	.....	5	.....	2	.....	nw.	.....	.....	mod.	nw.	fair.
S.S. Galatia, London, Engt	29.45	748.0	.....	.....	.....	wnw.	.....	.....	4	.....	3	.....	w.	o	o	.....	.....	hazy.
S.S. India, Suez Canal*	29.94	760.5	70	21.1	90	ne.	.....	.....	3	.....	o	.....	.....	.....	.....	.....	.....	clear.
ATLAS LINE.																		
S.S. Atlas, N. 27° 05′, W. 74° 05′†	30.17	766.3	69	20.6	79	ene.	.....	.....	3	.....	10	.....	se.	2 h'r	2 h'r	mod.	e.	raining.
S.S. Alvo, Savanilla, U. S. C.	30.49	774.4	.....	.....	.....	ne.	.....	.....	7	.....	4	.....	ne.	o	o	.....	.....	fair.
S.S. Arden, Kingston, Jamaica, W. I.*	.....	.....	.....	.....	.....	ene.	.....	.....	1	.....	2	.....	ne.	.....	.....	.....	.....	fine.
S.S. Athos, N. 34° 25′, W. 74° 21′	30.04	763.0	.....	.....	.....	wnw.	.....	.....	1	.....	o	.....	.....	o	o	mod.	nnw.	clear.
S.S. Claribel, Kingston, Jamaica, W. I*†	30.17	766.3	81	27.2	82	calm	.....	.....	o	.....	2	.....	calm	o	o	.....	.....	fine.
BOSTON AND HALIFAX LINE.																		
S.S. Carroll, Halifax, N. S†	29.63	752.6	63	17.2	67	nnw.	.....	.....	3	.....	.....	.....	.....	o	o	.....	.....	fair.
BRITISH METEOROLOGICAL OFFICE.																		
Bk. Arran, S 13° 22′, W. 27° 45′	30.09	764.3	81.3	27.4	67	ese.	.....	.....	3	.....	1	.....	.....	.....	.....	.....	.....	blue sky.
S. Baroda, N. 7° 13′, E. 82° 10′	29.75	755.6	84.6	29.2	85	ene.	.....	.....	1	.....	8	.....	.....	.....	.....	.....	.....	misty.
British Merchant, S. 14° 29′, E. 84° 39′	29.78	756.4	80	26.7	80	ese.	.....	.....	6	.....	9	.....	.....	.....	.....	.....	.....	overcast.
CROMWELL LINE.																		
S.S. Hudson, N. 36° 15′, W. 74° 30′†	30.24	768.1	55	12.8	.....	w.	.....	.....	3	.....	o	.....	.....	o	o	mod.	ne.	clear.
CUNARD LINE																		
S.S. Parthia, N. 43° 40′, W. 43° 47′†	28.54	724.9	.....	.....	.....	s.	.....	.....	10	.....	10	.....	.....	3 h'r	3 h'r	h'vy	sw.	raining.
GENERAL TRANS-ATLANTIC COMPANY.																		
S.S. Canada, Havre, France	29.50	749.2	57.2	14.0	.....	sw.	.....	.....	5	.....	10	.....	sw.	2 h'r	2 h'r	.....	.....	covered.
S.S. France, N. 49° 13′, W. 15° 01′ †	29.71	754.7	48.2	9.0	.....	nw.	.....	.....	6	.....	.....	.....	wnw.	rain	rain	h'vy	wnw.	light rain.
HAMBURG AMERICAN PACKET COMPANY.																		
S.S. Gellert, N. 41° 20′, W. 64° 02′	29.88	758.9	39	3.9	.....	w.	.....	.....	3	.....	1	.....	w.	o	o	sm'h	.....	clear.
S.S. Lessing, N. 39° 50′, W. 50° 51′	29.57	751.0	47	8.3	.....	n.	.....	.....	o	.....	10	.....	.....	o	o	long	nw.	cloudy.
S.S. Silesia, New York, N. Y†	30.16	766.1	40.3	4.6	.....	w.	.....	.....	2	.....	o	.....	.....	o	o	.....	.....	fair.
INMAN LINE.																		
S.S. City of New York, N. 40° 52′ W. 67° 14′	29 94	760.5	.....	.....	.....	w	.....	.....	4	.....	2	.....	w.	o	o	sm'h	w.	clear.
JOHNSTON LINE.																		
S.S. Thanemore, N. 44° 52′. W. 38° 25′	29.09	738.9	.....	.....	.....	ssw.	.....	.....	7	.....	8	.....	sw.	8 h'r	8 h'r	.....	ssw.	hazy.
LAMPERT AND HOLT'S LINE.																		
S.S. Hevelius, N. 20° —′, W. 25° —′*†	30.29	769.4	72	22.2	.....	ne.	.....	.....	3	.....	8	.....	ne.	o	o	long	nw.	overcast.
S.S. Humboldt. N. 3° 50′ W. 29° 50′.*	30.00	762.0	78.2	25.7	86	var.	.....	.....	1	.....	8	.....	.....	12 h'r	12 h'r	2	ne.	raining.
LEYLAND LINE.																		
S.S. Iberian, N. 50° 36′, W. 26° 43′	29.67	753.6	.....	.....	.....	w.	.....	.....	3	.....	2	.....	nw.	2 h'r	2 h'r	mod.	nw.	
MALLORY LINE.																		
S.S. Colorado, Key West, Flat	30.03	762.7	75	23.9	.....	ne.	.....	.....	2	.....	o	.....	.....	o	o	.....	.....	clear.
MERCHANTS' EXPRESS LINE.																		
S.S. Freja, N. 49° 23′, W. 16° 53′†	29.69	754.1	56	13.3	75	w.	.....	.....	6	.....	1	.....	w.	o	o	.....	w.	squally.
NATIONAL LINE.																		
S.S. England, Liverpool, Eng.	29.30	744.2	.....	.....	.....	nw.	.....	.....	5	.....	o	.....	.....	o	o	.....	.....	clear.
S.S. Erin, London, England	29.39	746.5	58	14.4	.....	sw.	.....	.....	o	.....	10	.....	wsw.	o	o	.....	.....	hazy.
S.S. Helvetia, N. 48° 32′, W. 29° 50′	29.68	753.9	47	8.3	.....	sw.	.....	.....	2	.....	6	.....	ssw.	o	o	light	var.	light haze.
S.S. Italy, N. 40° 33′ W. 69° 10′	30.02	762.5	.....	.....	.....	w.	.....	.....	4	.....	o	.....	.....	o	o	slight	w.	clear.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S.S. Niagara. N. 39° 14′ W. 73° 58′†	30.18	766.6	44	6.7	.....	nnw.	.....	.....	2	.....	o	.....	.....	o	o	sm'h	.....	clear.
S.S. Santiago, N. 35° 21′, W. 74° 00′†	30.17	766.3	57	13.9	.....	n.	.....	.....	4	.....	2	.....	n.	1 h'r	1 h'r	sm'h	nne.	fine.
NEW YORK, HAVANA AND MEXICAN MAIL.																		
S.S City of Alexandria, N. 30° 15′, W. 79° 31′*†	30.23	767.8	72	22.2	.....	nne.	.....	.....	6	.....	10	.....	ne.	8 h'r	8 h'r	high	ne.	light rain.
S.S. City of Puebla, Vera Cruz, Mexico†	29.97	761.2	70	21.1	.....	sw.	.....	.....	1	.....	10	.....	ssw.	.....	.....	sm'h	.....	
NEW YORK HERALD WEATHER SERVICE.																		
S.S. Atlas, Saint Marc, Hayti, W. I*†	30.18	766.6	80	26.7	.....	calm	.....	.....	o	.....	.....	.....	.....	.....	.....	sm'h	.....	clear.
S.S. W. A. Scholten, N. 41° 55′, W. 47° 01′	29.21	741.9	47.0	8.3	.....	nw.	.....	.....	9	.....	.....	.....	.....	.....	.....	high	.....	stormy.
NORTH GERMAN LLOYD																		
S.S. Elbe, N. 47° 30′, W. 32° 31′	29.62	752.3	49.1	9.5	68	w.	.....	.....	5	.....	10	.....	w.	rain	rain	r'gh	w.	squally.
S.S. Graf Bismarck, N. 13° 20′, W. 26° 22′	30.13	765.3	77.0	25.0	.....	ne.	.....	.....	4	.....	4?	.....	ne.	o	o	mod.	ne.	overcast.?
S.S. Hermann, N. 39° 35′, W. 65° 35′†	29.79?	756.7?	51.8	11.0	.....	wnw.	.....	.....	5	.....	o	.....	.....	o	o	mod.	wnw.	fair.
S.S. Hohenzollern, N. 38° 05′, W. 13° 14′*	30.24	768.1	56.3	13.5	.....	nnw.	.....	.....	2–4	.....	10	.....	nw.	o	o	sm'h	nnw.	cloudy.
S.S. Koln, N. 48° 47′, W. 31° 37′	29.68	753.9	51.0	10.8	93	ssw.	.....	.....	4	.....	10	.....	.....	1 h'r	1 h'r	.....	sw.	overcast.
S.S. Kronprinz F. Wilhelm, N. 49° 47′, W. 8° 45′	29.49	749.0	47.3	8.5	.....	w.	.....	.....	2	.....	10	.....	.....	7 h'r	7 h'r	3	wnw.	raining.
S.S. Leipzig, N. 48° 13′, W. 21° 19′	29.86	758.4	54.0	12.2	80	nw.	.....	.....	5	.....	2	.....	nw.	1 h'r	1 h'r	mod.	nw.	fair.
S.S. Main, N. 44° 12′, W. 40° 13′	.....	.....	55.4	13.0	.....	ssw.	.....	.....	o	.....	10	.....	sw.	4 h'r	4 h'r	high	ssw.	light rain.
S.S. Neckar, N. 49° 14′ W. 15° 36′	29 65	753.1	51.8	11.0	.....	w.	.....	.....	4	.....	3	.....	w.	o	o	mod.	wnw.	cloudy.
S.S. Nurnburg, N. 48° 46′, W. 19° 42′*	29 76	755.9	52.7	11.5	.....	nw.	.....	.....	6	.....	5	.....	nw.	3 h'r	3 h'r	long	nw.	fair.
S.S. Oder, N 45° 30′, W. 41° 38′	28.85	732.8	57.2	14.0	.....	s.	.....	.....	6	.....	8	.....	s.	rain	rain	r'gh	sw.	rainy.
S.S. Ohio, N 38° 47′ W. 58° 43′	29.80	756.9	.....	.....	.....	nnw.	.....	.....	6	.....	5	.....	nne.	1¼ h'r	1¼ h'r	cross	nnw.	fair.
S.S. Rhein, N. 39° 36, W. 62° 10′	29.85	758.2	.....	.....	.....	nnw.	.....	.....	4	.....	5	.....	nw.	o	o	mod.	nnw.	fair.
S.S. Salier, N 40° 42′, W. 69° 57′	30.03	762.7	41.9	5.5	.....	wnw.	.....	.....	4	.....	o	.....	.....	o	o	mod.	wnw.	clear.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S.S. Belgic, San Francisco, Cal.†	30.13	765.3	51	10.6	72	n.	.....	.....	1	.....	5	.....	nw.	o	o	sm'h	.....	fair.
S.S. Oceanic, N. 23° 39′ E. 118° 00′*	30.04	763.0	66	18.9	84	ne.	.....	.....	3	.....	8	.....	ne;sw.	.....	.....	2	ne.	cloudy.
OCEAN STEAMSHIP COMPANY.																		
S.S. City of Augusta, N. 37° 27′, W. 74′ 50′†	30.21	767.3	.....	.....	.....	w.	.....	.....	2	.....	10	.....	.....	o	o	.....	.....	clear.
S.S. Seminole, N. 32° 40′, W. 77° 25′†	30.30	769.6	66	18.9	59	ne.	.....	.....	5	.....	o	.....	.....	o	o	sm'h	ne.	clear.
OREGON IMPROVEMENT COMPANY.																		
S.S. Mississippi, San Francisco, Cal†	30.14	765.5	48	8.9	85	o.	.....	.....	1	.....	o	.....	.....	.....	.....	.....	.....	clear.
S.S. Willamette, Seattle, Wash. Ter.*†	30.24	768.1	47	8.3	77	se.	.....	.....	3	.....	4	.....	se.	o	o	.....	.....	very fine.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S.S. City of Chester, N. 50° 29′, W. 126° 10′*†	30.08	764.6	43	6.1	100	se	.....	.....	2	.....	5?	.....	se.	o	o	.....	.....	cloudy?
S.S. Oregon, N. 39° 20′, W. 124° 08′†	30.23	767.8	46	7.8	92	nnw.	.....	.....	o	.....	5	.....	nnw.	.....	.....	r'gh	nnw.	clear?
PACIFIC COAST STEAMSHIP COMPANY.																		
S.S. Ancon, N. 33° 44′, W. 118° 34′.†	29.96	761.0	52	11.1	93	n.	.....	.....	2	.....	5	.....	w.	.....	.....	sm'h	.....	fine.
S.S. Idaho, San Francisco, Cal. †	30.14	765.5	50	10.0	80	s.	.....	.....	1	.....	o	.....	.....	.....	.....	.....	.....	clear.
S.S. State of California, San Francisco, Cal.†	30.11	764.8	45	7.2	84	calm	.....	.....	o	.....	o	.....	.....	.....	.....	.....	.....	clear.
S.S. Victoria, Nanaimo, Vancouver's I'd.†	30.07	763.8	43	6.1	83	calm	.....	.....	o	.....	o	.....	.....	o	o	.....	.....	clear.
PACIFIC MAIL STEAMSHIP CO.																		
S.S. Australia, Sydney, N. S. W.	30.10	764.5	60	15.6	82	calm	.....	.....	o	.....	o	.....	.....	.....	.....	.....	.....	clear.
S.S. City of New York, Sydney, N. S. W.†	30.03	762.7	67	19.4	89	s.	.....	.....	2	.....	1	.....	s.	o	o	.....	.....	clear.
S.S. City of Pekin, Acajutla, Mexico†	29.95	760.7	79	26.1	95	calm	.....	.....	o	.....	2	.....	.....	.....	.....	sm'h	.....	hazy.
S.S. City of Rio de Janeiro, La Libertad, San Sal*†	30.14	765.5	82	27.8	83	nne.	.....	.....	1	.....	o	.....	.....	.....	.....	mod.	sw.	clear.
S.S. City of Sydney, N. 35° 39′, W. 128° 32′†	30.37	771.4	52	11.1	66	nne.	.....	.....	4	.....	8	.....	nnw.	o	o	h'vy	n	cloudy.
S.S. City of Tokio, N. 35° 59′, W. 168° 44′†	29.85	758.2	56	13.3	81	nnw.	.....	.....	9	.....	10	.....	n.	12 h'r	12 h'r	r'gh	nnw.	threatening.
S.S. Clyde, N. 10° 27′, W. 86° 19′†	29.93	760.2	77	25.0	91	ne.	.....	.....	3	.....	5	.....	ne.	o	o	light	sw.	fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
PACIFIC MAIL STEAMSHIP COMPANY.—Continued.																		
S. S. Colon, N. 10° 20′, W. 79° 15′†	29.98	761.5	80	26.7	.....	nne.	.....	.....	4	.....	10	.....	ne.	0	0	mod.	ne.	overcast.
S. S. South Carolina, Panama, Panama†	30.05	763.3	85	29.4	76	nne.	.....	.....	4	.....	5	.....	var.	0	0	mod.	ne.	fair.
S. S. Zelandia, N. 24° 35′, W. 152° 07′	30.10	764.5	72	22.2	85	ene.	.....	.....	4	.....	8	.....	ene.	.....	.....	mod.	ene.	drizzling
QUEBEC S. S. COMPANY.																		
S. S. Muriel, Trinidad, W. I.	29.99	761.7	80	26.7	.....	e.	.....	.....	2	.....	0	.....	.....	0	0	sm'h	.....	fair.
S. S. Bermuda, N. 35° 32′, W. 70° 24′†	29.92	760.0	52	11.1	.....	nw.	.....	.....	2	.....	9	.....	nw.	0	0	g'tl	nnw.	fine.
RED STAR LINE.																		
S. S. Belgenland, Antwerp, Belgium†	29.59	751.6	53	11.7	?	sse.	.....	.....	2	.....	9	.....	s.	0	0	.....	.....	cloudy.
S. S. Rhynland, N. 43° 44′ W. 42° 45′	28.58	725.9	50	10.0	86	s.	.....	.....	9	.....	10	.....	s.	0.3	8.	h'vy	s.	stormy.
S. S. Switzerland, N. 46° 54′. W. 24° 35†	29.94	760.5	.....	.....	.....	w.	.....	.....	3	.....	10	.....	w.	0	0	long	w.	cloudy.
S. S. Vaderland, Antwerp, Belgium	29.56	750.8	55	12.8	80	sse.	.....	.....	3	.....	8	.....	sse.	0	0	.....	.....	cloudy.
S. S. Waesland, N. 39° 52′, W. 63° 38′	29.92	760.0	52	11.1	.....	nnw.	.....	.....	4	.....	0	.....	.....	0	0	sm'h	nw.	clear.
STATE LINE.																		
S. S. State of Florida, N. 55° 18′ W. 6° 00′	29.21	741.9	50	10.0	.....	s.	.....	.....	4	.....	10	.....	s.	10 h'r	10 h'r	sm'h	.....	cloudy.
S. S State of Indiana, N. 44° 00′, W. 51° 15′†	29.32	744.7	34	1.1	.....	n.	.....	.....	5	.....	6	.....	nne.	0	0	mod.	nne.	cloudy.
THINGVALLA LINE.																		
S. S. Thingvalla, N. 57° 58′ W. 14° 12′†	29.77	756.1	47.3	8.5	.....	e.	.....	.....	1	.....	2	.....	e.	0	0	sm'h	e.	clear.
WARREN LINE.																		
S. S. Iowa, N. 45° 20′ W. 41° 29′*†	29.06	738.1	50	10.0	.....	s.	.....	.....	6	.....	7	.....	s.	6 h'r	6 h'r	r'gh	sse.	hazy.
WHITE CROSS LINE.																		
S. S. Hermann, N. 42° 23′, W. 44° 20′†	28.77	730.7	.....	.....	.....	w.	.....	.....	9	.....	9 ks	.....	wnw.	sq 'lls	sq 'lls	h'vy	w.	rainy.
WHITE STAR LINE.																		
S. S Celtic, N. 45° 24′ W. 41° 11′†	28.68	728.5	50	10.0	.....	s.	.....	.....	6	.....	10	.....	s.	12 h'r	12 h'r	high	sw.	misty.
WILSON LINE.																		
S. S. Romano, N. 40° 52′ W. 67° 14′*†	29.72	754.9	40	4.4	.....	w.	.....	.....	.....	.....	0	.....	.....	.....	.....	sm'h	.....	clear.
S. S. Salerno, N. 49° 56 W. 10° 27′*	29.50	749.3	50.0	10.0	82	w.	.....	.....	6	.....	6	.....	w.	.....	.....	mod.	w.	d. clouds.
WINSOR LINE.																		
S S. Catherine Whiting, Cape May, N. J.†	30.26	768.6	.....	.....	.....	wnw.	.....	.....	1	.....	0	.....	.....	0	0	light	ne.	
MISCELLANEOUS.																		
Sch. Addie Faller, N. 32° 10′, W. 79° 06′†	30.31	769.9	66	18.9	64	ne.	.....	.....	3	.....	9 8	.....	ne.	0.49	12.4	r'gh	ne.	cloudy.
Bk. Adelaide, Rio de Janeiro, Brazil*†	30.15	765.8	80	26.7	.....	ne.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Schr. Ajax, Mobile, Ala†	30.06	763.5	.....	.....	.....	n.	.....	.....	1	.....	1	.....	n.	0	0	.....	.....	clear.
Bk. Alpha, Off Tortuga Island, W. I.†	30.01	762.2	80	26.7	.....	e.	.....	.....	3	.....	3	.....	ese.	0	0	sm'h	.....	fair.
Bk. Antioch, S. 37° 10′ E. 0° 25′*†	29.90	759.4	65	18.3	.....	e.	.....	.....	2	.....	10	.....	w.	20 h'r	20 h'r	sm'h	w.	overcast.
Schr. Asa Eldridge, Key W. st, Fla†	30.04	763.0	.....	.....	.....	nne.	.....	.....	3	.....	2	.....	ne.	0	0	.....	.....	fair.
Bk. Aureola, N. 4° 15′, W. 28° 31′*†	30.09	764.3	90	32.2	.....	nne.	.....	.....	3	.....	5	.....	e.	¼ h'r	¼ h'r	mod.	ne.	hazy.
Sch'r Annie M. Smull, S. 42° 13′ E. 45° 10′*†	29.30	744.2	57	13.9	.....	w.	.....	.....	.....	.....	.....	.....	.....	8 h'r	8 h'r	.....	.....	
Bkt. Carrie Heckle, N. 19° 42′, W. 75° 05′*†.	30.20	767.1	79	26.1	.....	nne.	.....	.....	3	.....	2	.....	nne.	0	0	sm'h	.....	clear.
Bk. Celestina, S. 28° 08′ W. 44° 44′*†	30.19	766.8	.....	.....	.....	se.	.....	.....	1	.....	5	.....	sse.	0	0	mod.	sw.	
Bk. Champion, N. 43° 44′ W. 33° 39?′†	29.61	752.1	.....	.....	.....	ssw.	.....	.....	9	.....	10	.....	wsw.	12 h'r	12 h'r	r'gh	wsw.	
S. S. Compton, N. 30° 00′, W. 80° 24′†	30.11	764.8	.....	.....	.....	ne.	.....	.....	3	.....	9	.....	nne.	0	0	sl't	nne.	clearing.
Dora, N. 29° 00′, W. 79° 30′†	30.22	767.6	71.6	22.0	.....	ene.	.....	.....	6	.....	9	.....	e.	4 h'r	4 h'r	rg'h	ne.	raining.
Bk. E. L. Pettengill, N. 33° 24′ W 135° 36′†	30.60	777.2	.....	.....	.....	ne.	.....	.....	2	.....	5	.....	ne.	0	0	sm'h	.....	d. clouds.
S. Enoch Train, N. 43° 10′, W. 37° 18′*	29.08	738.6	.....	.....	.....	s	.....	.....	8	.....	9	.....	sw.	h'vy	h'vy	.....	sw.	showery.
S. Exporter, N 8° 40′, W. 26° 40′*†	30.10	764.5	.....	.....	.....	ene.	.....	.....	4	.....	1	.....	se.	0	0	long	ne.	fine.
Ship Festina Lente, N. 41° 15′, W. 50° 13′*	29.54	750.3	40	4.4	.....	nnw.	.....	.....	7	.....	3	.....	nnw.	8 h'r	8 h'r	cross	nnw.	fair.
U. S. F. C. S. FishHawk, Quantico, Va.†	30.35	770.9	47	8.3	77	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	.....	clear.
S. Grecian, S. 40° 00′, E. 1° 40′*†	30.05	763.3	56	13.3	.....	e.	.....	.....	3	.....	9	.....	n.	.....	.....	long	wsw.	rainy.
Bk. Freya, N. 39° 55′, W. 45° 12′	.....	.....	60	15.6	.....	w.	.....	.....	8	.....	8	.....	wsw.	6 h'r	6 h'r	h'vy	w.	cloudy.
Bk. Granville, Algoa Bay Africa*†	30.11	764.8	.....	.....	.....	wsw.	.....	.....	4	.....	.....	.....	.....	0	0	.....	.....	cloudy.
Bk. Hattie G. McFarland, Baltimore, Md*†	30.22	767.6	48	8.9	.....	nw.	.....	.....	1	.....	2	.....	nw	0	0	.....	.....	clear.
Schr. Henry Denison, N. 18° 40′, W. 75° 11′†	30.08	764.0	.....	.....	.....	ene	.....	.....	1–3	.....	2	.....	ene.	0	0	mod.	ne.	fine.
S. Hedwig, N. 41° 03′, W 49° 18′	29.48	748.8	42.3	5.7	86	nw.	.....	.....	8	.....	8	.....	nw.	9 h'r	9 h'r	5	nnw.	
Schr. John L. Thomas, N. 17° 25′ W. 76° 00′*†.	30.18	766.6	.....	.....	.....	nne.	.....	.....	.....	.....	4	.....	e.	0	0	light	nne.	fine.
Bk. John Wesley, Sagua la Grande, Cuba, W. I.†	29.97	761.2	81	27.2	.....	ene.	.....	.....	1	.....	1	.....	.....	0	0	.....	.....	clear.
Bk. Jenna, N. 42° 43′ W. 39° 26′*†	29.40	746.7	.....	.....	.....	sw.	.....	.....	7	.....	2	.....	w.	4 h'r	4 h'r	h'vy	sw.	clear.
Bk. Josephine, Aspinwal, Panama*†	30.06	763.5	84	28.9	73	nne.	.....	.....	5	.....	8	.....	nne.	0	0	.....	.....	cloudy.
Bk. Kate Cann, N. 49° 01′, W. 5° 04′*†	28.82?	732.0?	.....	.....	.....	nw.	.....	.....	5	.....	5?	.....	nw.	1 h'r	1 h'r	r'gh	w.	cloudy?
S. Lake Erie, N. 40° 30′ W. 50° 00′	29.43	747.5	.....	.....	.....	nw.	.....	.....	7	.....	10?	.....	nw.	h'v'y	h'vy	h'vy	n.	clear.?
Bk. Liberia, N. 15° 54′, W. 25° 42′*†	30.15	765.8	77	25.0	82	ne.	.....	.....	5	.....	3	.....	ne.	0	0	.....	.....	
Light House Tender, Laurel, Key West, Florid.†	30.14	765.5	79	26.1	.....	ne.	.....	.....	1	.....	4	.....	nnw.	0	0	.....	.....	fair.
Schr. Maggie Abbot, N. 25° —′ W. 69° —′*†	30.17	766.3	.....	.....	.....	sw.	.....	.....	.....	.....	.....	.....	.....	0	0	.....	.....	clear.
S. S. Malabar, N. 36° 52′ E. 12° 35′*†	29.87	758.7	.....	.....	.....	nw.	.....	.....	9	.....	5?	.....	nw.	0	0	hv'y	nw.	cloudy?.
Bg. Medina, Key Francis, Fla.†	30.23	767.8	.....	.....	.....	nne.	.....	.....	1	.....	2	.....	ne.	.....	.....	.....	.....	fine.
S. S. Nebo, Santos, Brazil*†	30.08	764.0	.....	.....	.....	nnw.	.....	.....	1	.....	2	.....	n.	0	0	.....	.....	clear.
S. S. New York, N. 38° 06′ E. 1° 00′*†	30.30	769.6	.....	.....	.....	w.	.....	.....	3	.....	.....	.....	w.	0	0	long	nw.	fair.
Bk. Peppina, Gironde River, France†	29.79	756.7	57	13.9	93	w.	.....	.....	6	.....	10	.....	.....	.....	.....	.....	.....	drizzling
S. S. Radnorshire, N. 48° 03′ W. 9° 30′*†	29.50	749.3	.....	.....	.....	nw.	.....	.....	7	.....	8	.....	nw.	12 h'r	12 h'r	mod.	wsw.	squally.
S. Salisbury, N. 6° 07′, W. 28° 05′*	30.05	763.2	82.9	28.3	83	ne.	.....	.....	3–4	.....	6	.....	ene.	0	0	mod	nne.	fair.
Schr. S. B. Hubbard, N. 40° 01′, W. 73° 10′*†	30.12	765.0	48	8.9	.....	w.	.....	.....	1	.....	0	.....	.....	0	0	.....	w.	fine.
Bkt. Spotless, S. 5° 29′ W. 30° 25′	.....	.....	.....	.....	.....	ne.	.....	.....	.....	.....	.....	.....	.....	.....	.....	mod.	sse.	fine.
Bk. Stella, S. 44° 51′, W. 78° 06′*	29.79	756.7	52.7	11.5	96	w.	.....	.....	5	.....	10	.....	w.	rain	rain	mod	w.	raining.
Washington, N. 35° 42′. W 58° 40′*†	29.78	756.4	.....	.....	.....	nw.	.....	.....	6	.....	2	.....	nw.	2 h'r	2 h'r	r'gh	nw.	fair.
Bg. Wauburn, S. 0° 58′ W. 36° 10′*†	30.00	762.0	.....	.....	.....	baff.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	heavy rain.
S. Wm. Woodbury, N. 42° 07′, W. 40° 20′*†	29.05	737.9	62	16.7	.....	sw.	.....	.....	9	.....	.....	.....	w.	.....	.....	light	sw.	clear.

International Chart I. April 17, 1882. Isobars and Isotherms.



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON APRIL 18, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours	.....	.....	30.13	765.4	72.7	22.6	76	w.	.....	.....	3	.....	0	.....	.....	0	0	clear	Moiroud.
Algiers	.....	.....	30.13	765.2	66.9	19.4	61	w.	.....	.....	7	.....	0	.....	.....	0	0	clear	Nicolas.
La Calle	.....	.....	30.04	763.0	71.6	22.0	66	nnw.	.....	.....	1	.....	3	.....	.....	0	0	pretty fair	Fonfrède.
Tunis	.....	.....	29.96	761.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.17	766.2	72.7	22.6	29	n.	.....	.....	1	.....	0	.....	.....	0	0	clear	Dumas.
Tebessa	.....	.....	30.11	764.9	63.0	17.2	63	nw.	.....	.....	2	.....	2	.....	.....	c	0	fair	Derché.
Geriville	.....	.....	.....	.....	69.8	21.0	15	n.	.....	.....	3	.....	0	.....	.....	0	0	clear	Louchamp.
Laghouat	.....	.....	30.19	766.8	78.4	25.8	52	nw.	.....	.....	2	.....	0	.....	.....	0	0	clear	Abraham.
Biskra	.....	.....	30.13	765.3	82.8	28.2	16	wsw.	.....	.....	2	.....	0	.....	.....	0	0	clear	Malau.
Australian.																			
Melbourne, Victoria	30.08	764.0	30.17	766.3	56.2	13.4	79	s.	3	1.3	.....	.....	8	.....	.....	0	0	dull	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.11	739.5	29.65	753.1	63.3	17.4	51	sw.	.....	.....	1	.....	8	.....	.....	0	0	.....	Prof. Ivan Stozir.
Cracow, I. R Observatory	28.92	734.5	29.66	753.4	63.0	17.2	46	sw.	3.8	1.7	.....	.....	2	.....	.....	0.020	0.5	.....	Dr. Wierzbiski.
Eperies	28.82	731.9	29.67	753.7	61.2	16.2	67	s.	.....	.....	2	cs	5 s	.....	n.	0.098	2.5	.....	Julius Mikolik.
Gratz	28.44	722.4	29.65	753.1	61.7	16.5	54	nw.	.....	.....	2	.....	5	.....	.....	0.098	2.5	.....	Andreas Rospini.
Hermannstadt	28.31	719.0	29.68	753.8	67.6	19.8	52	nw.	.....	.....	3	.....	9	.....	.....	0	0	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.42	721.8	29.75	755.7	51.3	10.7	68	wnw.	.....	.....	3	.....	10	.....	.....	0.122	3.1	raining	The Staff.
Lemberg	28.71	729.1	29.67	753.6	59.2	15.1	53	ne.	.....	.....	3	.....	1	.....	.....	0	0	.....	Dr. T. Stanecki.
Pola	29.59	751.6	29.70	754.4	58.3	14.6	78	sse.	.....	.....	2	.....	10	.....	.....	0.016	0.4	.....	I. R. Hydrographic Office.
Szathmar	29.23	742.4	29.68	753.9	67.6	19.8	47	sw.	.....	.....	3	.....	9	.....	.....	0	0	.....	Joseph Midlinszky, S. J.
Szegedin	29.43	747.5	29.70	754.4	62.6	17.0	65	sw.	.....	.....	1	.....	5	.....	.....	0	0	.....	Karl Stancel.
Trieste	29.61	752.2	29.72	754.8	60.4	15.8	73	calm	.....	.....	0	.....	10	.....	.....	0.799	20.3	.....	Rieder.
Vienna	29.01	736.8	29.71	754.6	61.2	16.2	51	wnw.	.....	.....	3	.....	5	.....	.....	0	0	.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.67	753.6	29.77	756.1	43.4	6.3	42	nw.	26	11.6	.....	.....	2	.....	.....	0.290	7.4	squally	W. Boswell.
Armagh, Observatory	29.66	753.4	29.90	759.4	48.9	9.4	42	n.	4	1.8	.....	.....	2	.....	.....	.....	.....	d. clouds	S. Oall.
Bidston, Liverpool Obs'y	.....	.....	29.82	757.4	49.7	9.8	71	wnw.	25	11.2	.....	.....	2	.....	.....	.....	.....	blue sky	John Hartnup.
Bolton, Sharples	29.26	743.2	29.80	756.9	49.5	9.7	67	nw.	6	2.7	.....	.....	8	.....	.....	.....	.....	d. clouds	Thomas Mackereth. [A.S.
Bradford, Yorkshire	29.38	746.2	29.78	756.4	49.1	9.5	91	ne.	.....	.....	3	.....	6	.....	.....	0.04	1.0	d. clouds	J. McLandsborough, F. R
Bridgetown, Barbadoes	29.99	761.7	30.02	762.5	82.0	27.8	62	ne.	.....	.....	2	.....	3	.....	.....	.....	.....	d. clouds	Corpl. J. Surgenor, A. H.C.
Cardington	.....	.....	29.77	756.1	52.0	11.1	61	nw.	.....	.....	2.0	.....	8	.....	.....	.....	.....	overcast	John McLaren.
Chatham, School M. E.	29.65	753.1	29.78	756.4	49.3	9.6	64	w.	.....	.....	1	.....	7	.....	.....	blank	blank	d. clouds	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	29.76	755.9	29.99	761.7	51.4	10.8	64	nw.	.....	.....	3	.....	3	.....	.....	.....	.....	d clouds	The Staff.
Fort Napier, Natal	27.67	702.8	29.89	759.2	76.2	24.6	52	e.	.....	.....	1	.....	3	.....	.....	.....	.....	blue sky	Pvt. E. K Annis, A. H.C.
Free Town, Sierra Leone	29.67	753.6	29.90	759.4	87.0	30.6	75	w.	.....	.....	1	.....	3	.....	.....	.....	.....	raining	Sergt. John Robinson.
Gibraltar, Mediterranean	30.12	765.0	30.17	766.3	72.1	22.3	72	w.	.....	.....	1	.....	0	.....	.....	.....	.....	blue sky	Cpl. O. Baldwin.
Glasgow, Observatory	29.61	752.1	29.81	757.2	49.4	9.7	40	wnw.	.....	.....	2	.....	0	.....	.....	.....	.....	misty	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.64	752.8	29.81	757.2	50.1	10.1	54	wnw.	.....	.....	4	.....	8	.....	.....	.....	.....	d. clouds	The Staff.
Guernsey	29.66	753.4	29.95	760.7	52.5	11.4	83	n.	.....	.....	5	.....	1	.....	.....	.....	.....	d. clouds	A. Collenette, F. M. S.
Kew, Observatory	29.79	756.7	29.83	757.7	50.2	10.1	53	nw.	21	9.4	.....	.....	6	.....	.....	.....	.....	d. clouds	The Staff.
Leicester, Museum	29.54	750.3	29.80	756.9	51.0	10.6	64	nw.	.....	.....	1	.....	10	.....	.....	.....	.....	overcast	J. C. Smith.
Malta, Mediterranean	29.79	756.7	29.86	758.4	66.4	19.1	54	nw.	.....	.....	3	.....	2	.....	.....	.....	.....	blue sky	I. H. Whysall.
Nassau, Bahamas	30.17	766.3	30.21	767.3	76.5	24.7	71	ne.	.....	.....	2	.....	4	.....	.....	blank	blank	d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.31	744.5	29.83	757.7	49.0	9.4	64	nw.	.....	.....	3	.....	8	.....	.....	.....	.....	d. clouds	John Mac Email.
Oxford, Radcliffe Obs'y	29.62	752 3	29.85	758.2	49.8	9.9	61	w.	.....	.....	5	.....	8	.....	.....	.....	.....	squally	The Staff.
Plymouth	29.86	758.4	29.94	760.5	55.5	13.1	65	nw.	.....	.....	4	.....	0	.....	.....	.....	.....	blue sky	John Merrifield.
Sandwick Manse, Orkneys	.....	.....	29.72	754.9	42	5.6	48	w.	25	11.2	.....	.....	1	.....	.....	.....	.....	blue sky	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.65	753.1	29.72	754.9	03.8	17.7	65	sw.	.....	.....	1	.....	5	.....	.....	blank	blank	misty	W. H. Lyne.
Sheffield	29.55	750.6	29.83	757.7	52.1	11.2	66	ne.	.....	.....	.....	.....	9	.....	.....	0.03	0.8	overcast	W. F. Cooper.
Silloth Rectory	29.79	756.7	29.82	757.4	52.1	11.2	63	sw.	.....	.....	1	.....	0	.....	.....	0.215	5.5	blue sky	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	29.82	757.4	50.5	10.3	56	nnw.	7	3.1	.....	.....	6	.....	.....	.....	.....	d. clouds	Rev. S. J. Perry.
Stratfield Turgiss	.....	.....	.....	.....	48.5	9.2	66	nw.	.....	.....	3	.....	7	.....	.....	.....	.....	d. clouds	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	30.01	762.2	30.04	763.0	56	13.3	62	nw.	.....	.....	6	.....	5	.....	.....	.....	.....	d. clouds	W. Newcombe.
Valencia, Observatory	29.90	759.4	29.93	760.2	52.4	11.3	69	ssw.	16	7.2	.....	.....	10	.....	.....	blank	blank	d. clouds	The Met'g'l Office.
Canadian.																			
Bathurst, N. B	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.76	755.9	29.80	756.9	29	— 1.7	59	nw.	7	3.1	.....	.....	10 s	.....	n.	0	0	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	29.83	757.7	29.89	759.2	30	— 1.1	77	nw.	9	4.0	.....	0	0	.....	.....	0	0	clear	G. A. Blair.
Father Point, Quebec*	29.95	760.7	29.97	761.2	31	— 0.6	88	n.	10	4.5	.....	0	2 k	.....	calm	0	0	clear	J. McWilliams.
Fort Garry, Manitoba*	29.18	741.2	30.03	762.7	32	0.0	88	calm	0	c	.....	5 k	5 ks	w.	w.	0	0	cloudy	James Stewart.
Halifax, N. S*	29.72	754.9	29.86	758.4	31	— 0.6	57	nw.	14	6.3	.....	0	0	.....	.....	inap.	inap.	clear	A. Allison.
Kingston, Ontario*	29.67	753.6	30.01	762.2	43	6.1	74	w.	6	2.7	.....	0	8 k	.....	w.	0	0	cloudy	A. P. Knight, M. A.
Montreal, Quebec*	29.78	756.4	29.99	761.7	35	1.7	66	ne.	9	4.0	.....	5 ck	5 ks	nw.	.....	0	0	cloudy	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.34	745.2	30.05	763.3	30	2.2	79	s.	7	3.1	.....	2 k	0	w.	.....	0	0	fair	Rev. R. Mosley.
Port Dover, Ontario	29.43	747.5	30.13	765.3	42	5.6	93	calm	0	0	.....	0	0	.....	.....	0	0	clear	H. Morgan.
Port Stanley, Ontario	29.47	748.5	30.14	765.5	34	1.1	88	w.	1	0.4	.....	2 ck	hz.	w.	.....	0	0	hazy	M. Payne.
Quebec, Quebec*	29.68	753.9	30.01	762.2	32	0.0	68	n.	.....	.....	1	.....	10 s	.....	n.	0	0	fair	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.47	748.5	29.94	760.5	44	6.7	68	sw.	5	2.2	.....	.....	8 s	.....	sw.	inap.	inap.	light rain	W. H. McIntyre.
Saugeen, Ontario*	29.33	745.0	30.05	763.3	45	7.2	68	sw.	13	5.8	.....	0	0	.....	.....	0	0	clear	.....
St. Andrews, N. B	29.90	759.4	29.95	760.7	32	0.0	84	nw.	8	3.6	.....	0	0	.....	.....	0	0	clear	.....
Sydney, C. B*	29.62	752.3	29.68	753.9	29	— 1.7	67	nw	17	7.6	.....	10 cs	0	.....	.....	0	0	cloudy	T. C. Hill, C. E.
Toronto, Ontario*	29.71	754.6	30.10	764.5	45	7.2	60	w.	8	3.6	.....	0	hz.	.....	.....	0	0	clear	Magnetic Observatory.
Yarmouth, N. S*	29.89	759.2	29.96	761.0	33	0.6	74	n	6	2.7	.....	0	0	.....	.....	0	0	clear	Lt. F. E. Wilmot, R. N.
Sub-series.																			
St. Johns, Newfoundland	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.16	766.1	30.19	766.8	66.0	18.9	83	sw.	16.2	7.2	.....	0	4 s	.....	.....	0.400	10.2	high haze	John Duthie.
Cape Town, C. G. H. Obs'y	30.11	764.8	30.15	765.8	72.8	22.7	74	s.	19	8.5	.....	0	2	.....	.....	0	0	.....	The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Chinese (*Sub-series*).																			
Hankow	29.87	758.7	30.15	765.8	60.9	16.1	98	sse.			3		10					raining	N. Titoushkin.
Zi-Ka-Wei, near Shanghai	30.03	762.8	30.06	763.4	55.9	13.3	87	se.	12.3	5.5			10			0	0	covered	M. Marc Dechevrens, S.J.
Danish.																			
Copenhagen	29.60	751.7	29.64	752.9	48.4	9.1	68	se.	34	15			10						Oversergent Fischer.
Fanöe	29.44	747.8	29.46	748.3	45.9	7.7	99	ese.			6		10					raining	Overloerer Lauridsen.
Godthaab, Greenland	29.56	750.9	29.61	752.0	27.0	—2.8	81	nne.			4		0						S. Kleinschmidt.
Stykkisholm, Iceland	29.74	755.3	29.78	756.4	35.6	2.0	93	se.			2		8						A. O. Thorlacius.
Thorshavn	29.61	752.0	29.64	752.9	37.4	3.0	68	n.	9	4			3						Overloerer Bergh.
Vestervig	29.44	747.8	29.53	750.1	47.3	8.5	79	e.			6		10					raining	Loearer Oesterbol.
French.																			
Agen, Normal School	29.50	749.3	30.15	765.8	55.8	13.2	84	nne.			2		kn		sw.	0.051	1.3		M. Lubrone, Director.
Alençon, Normal School	29.46	748.3	30.01	762.3	51.8	11	75	sw.			3		kn	s.	s.	0.150	3.8		M. Nicot, Director.
Arras, Engineer School	29.54	750.2	29.80	756.8	50.9	10.5	73	nw.			6				nw.	0.252	6.4		Capt. Bertrand, Dir.
Avginon, Normal School	29.86	758.5	29.94	760.5	59.7	15.4	52	n.			3		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.37	746.0	29.93	760.3	48.0	8.9	78	s.			4		10			0.315	8.0	covered	M. Saillard, Director.
Beauvais, Normal School	29.59	751.5	29.85	758.2	53.1	11.7	61	w.			3		8		wnw.	0.268	6.8	very cloudy	M. Frère Eugène Marl.
Besançon, Normal School	28.98	736.0	29.87	758.6	54.1	12.3	65	s.			1		8 kn		w.	0.177	4.5	very cloudy	M. Gobin, Director.
Bordeaux, Observatory	29.92	759.9	30.18	766.5	55.8	13.2	77	wnw.			1		8			0.453	11.5	very cloudy	M. Rayet, Director.
Bourges, Normal School	29.39	746.6	29.98	761.6	56.1	13.4	59	w.			3		k		w.	0.12	3.		M. Postel, Director.
Brest, Naval Observatory	29.84	757.9	30.08	764.1	59.4	15.2	66	wnw.			2		6		wnw.	0.087	2.2		M. de Kermaree, Dir.
Caen, Normal School	29.82	757.4	29.89	759.3	57.2	14	57	w.			1		10		wnw.	0.252	6.4	covered	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.52	749.9	29.84	758.0	52.7	11.5	73	w.			8		8	w.	nw.	0.118	3.0	very cloudy	M. Jadot, Director.
Charleville, Normal School	29.47	748.4	29.98	761.6	51.1	10.6	68	nw.			3		10			0.063	1.6	covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.67	728.1	30.02	762.4	55.4	13.0	47	wnw.			2		5		nw.	0.217	5.5	½ covered	M. Allnard, Director.
Cluny, Normal School	29.12	739.7	29.97	761.1	54.9	12.7	59	w.			3			w.		0.295	7.5		M. de Villemontée, Dir.
Commercy, Normal School	28.97	735.8	29.82	757.5	53.6	12	67	s.			3		5 n	s.	s.	0.43	11.	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.28	693.0	29.81	757.1	53.6	12	33	n.			3		2		nw.	0	0		M. Jeangirard, Director.
Grénsque, du. Rhone	28.76	730.6	29.88	758.9	58.8	14.9	31	nw.			4		5		nw.	0.134	3.4		M. Kina, Director.
Grenoble, Normal School	29.25	742.9	30.02	762.6	50.0	10	66	nne.			4		10			0.209	5.3	raining	M. Ablard, Director.
Guéret, Normal School	28.46	722.8	30.04	763.1	48.2	9	78	w.			4		n		e.	0.327	8.3		M. Rivoire, Director.
Lamballe, Normal School	29.76	755.9	30.04	762.9	51.8	11	75	sw.			3		5		sw.	0.134	3.4	cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.67	753.5	30.23	767.8	59.7	15.4	55	w.			3	0	5 kn		w.	0.571	14.5	raining	M. Chauvin, Director.
Lorient, Naval Observatory	30.00	762.1	30 11	764.7	59.9	15.5	64	nw.			3		5		nw.	0.098	2.5	½ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.94	735.0	30.00	762.0	53.4	11.9	57	nnw.			2		5 n		nnw.	0.232	5.9	½ covered	M. André, Director.
Mans, Normal School	29.69	754.1	30.00	762.0	50.5	10.3	82	nw.			4		5		nw.	0.110	2.8	cloudy	M. Piboen, Director.
Marseille, Observatory	29.63	752.6	29.90	759.4	61.7	16.5	40	nw.			4.5		6		nw.	0	0		M. Stephan, Director.
Montlouis l'instituteur	24.84	630.8	29.68	753.8	44.2	6.8	41	sw.	5.6	2.5			6	s.					M. Cave, for Dr. Fines.
Montpellier, Normal School	29.85	758.1	29.98	761.4	61.9	16.6	44	nw.			6		2		nw.	0	0	slightly cl'dy	M. Galzin, Director.
Nancy, Normal School	28.97	735.9	29.76	755.8	51.1	10.6	72	w.			1	0	5ckn			0.469	10.4	cloudy	M. Hasse, Director
Nantes, Observatory	29.96	760.9	30.10	764.6	58.5	14.7	57	wnw.			2–3	0	8 k;kn		wnw.	0.272	6.9		M. Larocque, Director.
Perpignan, Observatory	29.95	760.7	30.06	763.5	59.0	15.0	53	n.	22.4	10.0			5		wnw.	0.118	3.0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.18	538.0			21.2	— 6.0		nw.			2		10		nw.	0.268	6.8	covered	Gen'l de Nansouty, Dir.
Privas, Normal School	28.88	733.5	29.94	760.4	57.9	14.4	41	calm			0		5			0.102	2.6	raining	M. Taillieu.
Puy de Dôme Obs'y, Summit	25.03	635.8			31.5	— 0.3	100	wnw.			8		8		wnw.	0.642	16.3	¼ covered	M. Allnard, Director.
Rochefort, Naval Obs'y	30.10	764.4	30.13	765.2	60.1	15.6	91	wsw.			2		10		w.	0.004	0.1	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.89	759.3	30.11	764.8	56.8	13.8	58	nw.			4		2			0.154	3.9	slightly cl'dy	M. Mouillot, Director.
Rodez, Normal School	27.88	708.2	30.04	763.1	49.3	9.6	79	nw.			3		10			1.185	30.1	raining	M. Serger, Director.
Rouen, Normal School	29.83	757.7	29.88	758.9	54.7	12.6	70	sw.			2		5	w.		0.331	8.4	cloudy	M. Brotier.
Saint Maur, Observatory	29.74	755.4	29.91	759.6	51.4	10.8	78	w.			3		1c		wnw.	0.102	2.6		M. Renou, Director.
Toulouse, Observatory	29.46	748.2	30.19	766.7	49.8	9.9	94	wnw.			4		10	nw.		0.504	12.8	raining	M. Bailland, Director.
Versailles, Observatory	29.41	746.9	29.90	759.4	51.4	10.8	65	n.			6					0.028	0.7		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.59	751.6	29.88	759.0	53.1	11.7	69	wnw.			3		6		nw.	0.059	1.5		M. Marié Davy, Director
German.																			
Bamberg	28.90	734.1	29.75	755.6	53.6	12 0	60	sw.			4	0	7 k		sw.	0.315	8.0		Prof. Dr. Hoh.
Berlin	29.41	747.0	29.58	751.4	56.8	13.8	78	se.			1		9			0.114	2.9		Prof. Dr. Arndt.
Breslau	29.17	740.9	29.69	754.2	60.1	15.6	52	sw.			2		1c			0	0		Royal University Obs'y.
Carlsruhe	29.37	746.1	29.81	757.1	54.7	12.6	65	sw.			5		10	sw.		0.197	5.0	raining	Albert Senz.
Cassel	28.91	734.4	29.63	752.5	52.5	11.4	60	w.			5		8	sw.		0.004	0.1		Dr. H. Möhl.
Frankfort on the Main	29.34	745.2	29.70	754.4	54.7	12.6	68	wsw.			2		5			0.299	7.6		Physical Society.
Friedrichshafen	28.43	722.2	29.87	758.7	52.2	11.2	72	sw.			4		10	sw.		0.043	1.1	raining	Wilhelm, Chief Tel.
Hamburg	29.41	746.9	29.50	749.3	50.4	10.2	97	sw.			4		10			0.055	1.4	raining	E. Preller.
Kiel	29.45	747.9	29.46	748.3	49.5	9.7	91	sse.			1		10			0.059	1.5		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.21	742.0	29.63	752.5	56.1	13.4	59	sw.			6		8	sw.		0	0	stormy	H. Leppig, Asst.
Magdeburg	29.38	746.3	29.57	751.1	52.9	11.6	76	w.			4	0	9 ks		w.	0	0		Dr. Assmann.
Memel	29.78	756.4	29.83	757.6	50.0	10.0	43	n.			3	0	3 k						Issermann.
Munich	28.02	711.7	29.87	758.7	46.2	7.9	72	nw.			4		10			0.087	2.2	raining	Central Station.
Neufahrwasser	29.76	755.8	29.77	756.2	47.3	8.5	76	nne.			2		5			0.098	2.5		A. Lothes.
Neustadt, Palatinate	29.22	742.2	29.74	755.5	52.7	11.5	63	w.			3		10	w.		0.354	9.0		Dicknether.
Stuttgart	28.86	733.0	29.74	755.5	53.2	11.8	67	w.			5		6	w.		0.035	0.9		Prof. Dr. Schoder.
Wustrow	29.56	750.8	29.59	751.5	50.2	10.1	84	se.			3		10			0.169	4.3		Profs. Brandes & Reimer.
Greek.																			
Athens	29.34	745.1	29.72	755.0	64.6	18.1		ne.			2–5	10				0.024	0.6	covered	Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.71	754.6	29.76	755.9	83.1	28.4	75	wsw.	31.0	13.8			9		w.	0	0	gloomy	
Deesa	29.22	742.2	29.67	753 7	100.7	38.2	19	wsw.	9.0	4.0			0			0	0	blue sky	
Bombay	29.70	754.3	29.73	755 2	85.8	29.9	61	nw.	20.0	8.9			0			0	0	blue sky	
Poona, Yarrowda	27.84	707.2	29.61	752.1	101.0	38.3	9	w.	21.0	9.4			0			0	0	blue sky	
Belgaum	27.22	691.5	29.71	754.7	84.3	29.1	50	wsw.	12.0	5.4			0			0	0	misty	
Lahore	28.85	732.8	29.56	750.7	103.3	39.6	12	w.	2.8	1.2			3			0	0	blue sky	
Roorkee	28.78	731.0	29.66	753.4	90.9	36.1	26	calm	3.9	1.7			0			0	0		
Agra	29.09	738.8	29.62	752.4	104.1	40.1	15	n.	3.4	1.5			0			0	0		
Nagpur	28.60	726.5	29.59	751.6	105.2	40.7	18	e.	4.7	2.1			0			0	0	blue sky	
Jubbulpore	28.34	719 7	29.63	752.7	100.5	38.1	11	ne.	1.9	0.8			0			0	0	blue sky	
Lucknow	29.34	745.0	29.70	754.4	96.0	35.6	32	e.	3.9	1.7			0			0	0	blue sky	
Allahabad	29.36	745.8	29.66	753.4	97.4	36.3	26	calm	3.7	1.6			0			0	0	blue sky	
Patna	29.54	750.4	29.72	755.0	91.8	33.2	33	ene.	6.8	3.0			0			0	0	blue sky	
Hazaribagh	27.71	703.9	29.67	753.6	89.8	32.1	29	sse.	13.0	5.8			0			0	0	blue sky	
Cuttack	29.67	753.6	29.75	755 7	87.6	30.9	55	s.	3.7	1.6			1			0	0	blue sky	
Calcutta, Alipore	29.75	755.5	29.77	756.1	86.2	30.1	57	ssw.	7.0	3.1			2			0	0	d. clouds	
Dhubri	29.66	753.3	29.78	756.3	86.2	30.1	51	calm	5.3	2.4			1			0	0	d. clouds	
Chittagong	29.72	754.9	29.81	757.2	80.9	27.2	72	ssw.	4.3	1.9			2			0	0	blue sky	
Sibsagar	29.44	747.8	29.78	756.3	81.2	27.3	69	sw.	1.2	0 5			0			0	0	blue sky	
Jeypore	28.24	717.2	29.61	752.0	104.4	40.2	12	w.	3.9	1.7			0			0	c	blue sky	
Zanzibar, Africa	29.84	757.9			86.1	30.1	68	ese.	9.7	4.3			8		se.	0	0	d. clouds	
Bellary	28.22	716.8			101.0	38.3	18	se.	3.7	1.7		5 ck	2	sw.		0	0	d. clouds	
Trichinopoly	29.46	748.3			96.1	35.6	41	sw.	2	0.9			0			0	0	blue sky	
Italian.																			
Udine	29.34	745.3	29.75	755.7	56.7	13.7	75	ne.	0.7	0.3			10			0.248	6.3		Prof. Giovanni Clodig.
Milan	29.19	741.4	29.67	753.5	56.1	13.4	75	n.	7.4	3.3			8	w.		0.157	4.0		Prof. Schiaparelli.
Padua	29.58	751.3	29.69	754.1	56.5	13.6	83	ene.	13.0	5.8			10	e.		0.008	0.2		Prof. Dott. Lorenzoni.
Moncalieri	28.72	729.5	29.62	752.3	64.4	18.0	38	nne.	5.6	2.5			3			0	0		Prof. P. F. Denza.
Genoa	29.45	747.9	29.63	752.7	62.6	17.0	51	nw.	4.3	1.9			4	nw.		0	0		Prof. G. M. Garibaldi.
Mondovi	27.77	705.4	29.65	753.0	58.5	14.7	58	nw.			4		1			0	0		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
ITALIAN.—Continued.																			
Pesaro	29.64	752.9	29.69	754.1	57.2	14.0	83	sw.	6.3	2.8	.....	.....	10	.....	.....	0.106	2.7	.....	Prof. Luigi Guidi.
Florence	29.44	747.7	29.69	754.1	63.0	17.2	50	sw.	.....	.....	4	.....	9	sw.	.....	0.102	2.6	.....	Prof. Costantino Pitter.
Leghorn	29.55	750.5	29.63	752.7	61.5	16.4	62	ssw.	11.2	5.0	.....	.....	4	.....	.....	0.311	7.9	.....	Prof. P. Monte.
Rome	29.59	751.5	29.76	755.9	63.7	17.6	56	ssw.	17.4	7.8	.....	.....	10	.....	.....	0	0	.....	Prof. P. S. Ferrari.
Lecce	29.49	749.1	29.74	755.5	64.0	17.8	68	nne.	15.0	6.7	.....	.....	10	.....	.....	0.035	0.9	.....	Prof. C. de Giorgi.
Cosenza	28.94	735.0	29.82	757.5	64.4	18.0	76	sw.	3.8	1.7	.....	.....	7	s.	.....	0	0	.....	Prof. D. Conti.
Cagliari	29.71	754.5	29.90	759.4	66.2	19.0	46	nw.	.....	.....	4	.....	8	nw.	.....	0	0	.....	Prof. A. Pacinotti.
Palermo	29.66	753.4	29.91	759.7	65.3	18.5	45	wnw.	11.2	5.0	.....	.....	3	wnw.	.....	0	0	.....	Prof. G. Giacciatore.
Syracuse	29.76	755.8	29.80	756.9	68.4	20.2	50	wnw.	18.6	8.3	.....	.....	3	w.	.....	0.039	1.0	.....	Prof. Vincenzo Guiliano.
Sub-series.																			
Naples, S. R	29.26	743.2	29.78	756.3	62.6	17.0	64	sw.	0	0	.....	.....	7	w	.....	0	0	.....	Prof. T. Brioschi.
Stelvio	21.92	556 8	.....	.....	24.1	— 4.4	86	ne	.....	.....	4	.....	10	.....	.....	0.433	11.0	covered	Prof. P. F. Denza.
Valdobbia	21.87	555.5	.....	.....	28.4	— 2.0	56	n.	.....	.....	6	.....	3	.....	.....	0.197	5.0	misty.....	Prof. P. F. Denza.
JAPANESE.																			
Aomori	30.16	766.0	30.19	766.8	45.5	7.5	88	ne.	6.2	2.8	.....	0	1 8	....	....	0	0	clear.....	K. Ogawa.
Hakodate	30.19	766.8	30.20	767.1	42.0	5.6	92	calm	0	0	.....	.....	0	.....	.....	0	0	clear.....	
Hiroshima, I. M. Obs'y	30.08	764.0	30.10	764.5	54.0	12.2	72	nne.	5.9	2.6	.....	0	0	.....	.....	0	0	clear.....	K. Sasaki.
Kanazawa	30.06	763.5	30.16	766.0	49.7	9.8	81	se.	6.2	2.8	.....	0	0	.....	.....	0	0	clear.....	S. Endo.
Kioto	29.95	760.7	30.13	765.3	50.1	10.1	84	sw.	1.4	0.6	.....	0	0	.....	.....	0.208	5.3	.....	M. Tojima.
Kochi	30.13	765.3	30.16	766.0	58.5	14.7	91	nw.	4.6	2.1	.....	0	0	.....	.....	0.010	0.2	clear	
Nagasaki, I. M. Obs'y	29.96	761.0	30.17	766.3	54.4	12.4	88	calm	0	0	.....	0	0	.....	.....	0	0	clear.....	S. Takehayashi.
Niigata	30.14	765.5	30.17	766.3	50.1	10.1	95	nnw.	2.5	1.1	.....	2 cks	0	.....	.....	0	0	fair.....	
Nobiru	30.16	766.0	30.18	766.6	49.0	9.4	87	e.	4.6	2.1	.....	0	0	.....	.....	0	0	clear.....	H. Midzushina.
Supporo	.....	.....	.....	.....	40.0	4.4	80	ssw.	1.8	0.8	.....	.....	0	.....	.....	0	0	clear..	
Tokei Obs'y, Yeddo	30.05	763.3	30.12	765.0	53.9	12.2	97	calm	0	0	.....	0	0	.....	.....	0	0	clear.....	The Staff.
Wakayama	30.08	764.0	30.14	765.5	52.9	11.6	81	ene.	2.4	1.1	.....	0	0	.....	.....	0	0	clear...	Y. Kuwamuea.
MAURITIUS.																			
Mauritius Observatory	29.72	754.9	29.90	759.4	80.8	27.1	72	e.	5.0	2.2	.....	3ck;cs	4 ks;n	.....	ese.	0.01	0.3	fair.....	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.74	603.0	29.96	761.0	58.6	14.8	66	sw.	.....	.....	.....	0	2s	.....	w.	0	0	clear.....	Vicente Fernandez.
Leon	24.46	621.3	30.16	766.1	58.3	14.6	70	nnw.	.....	.....	1	5 c	0	sw.	.....	0	0	dense fog.....	Prof. M. Leal.
Mazatlan	29.77	756.1	30.03	762.8	67.0	19.4	48	nw.	0.9	0.4	.....	2 cs	0	sw.	.....	0	0	light fog.....	F. Quijano, U. E.
Mexico, Central Obs'y	23.15	587 9	30.24	768.0	54.0	12.2	69	calm	0	0	.....	7 c;cs	0	w.	.....	0	0	½ clouded...	The Staff.
Morelia	24.33	618.0	30.49	774.3	59.5	15.3	78	se.	.....	.....	3	1	1	s.	s.	0	0	clear.....	M. Tena, M. D.
Pabellon, Aguascalientes	24.01	609.8	30.06	763.4	55.8	13.2	66	calm	.....	.....	0	1 c	0	.....	.....	0	0	clear	M. V. de Leon, M. E.
Puebla, Catholic Institute	23.43	595.1	30.18	766.5	54.3	12.4	81	calm	0	0	.....	0	4	.....	sw.	0.012	0.3	½ clouded...	Prof. P. Spina.
San Luis Potosi	24.21	615 0	30.23	767.8	67.1	19.5	50	w.	.....	.....	1	3	1	w.	w.	0	0	foggy	G. Barreda, M. D.
Zacatecas	22.59	573.8	30.27	768.9	52.2	11.3	62	sw.	10.9	4.8	.....	0	0	.....	.....	0	0	clear.....	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.72	754.8	29.72	754.8	50.0	10.0	.....	wnw.	.....	.....	5	.....	.....	.....	.....	0.579	14.7	....	
Groningen	29.44	747.7	29.49	749.1	51.6	10.9	.....	sw.	.....	.....	1	.....	.....	.....	.....	0.295	7.5	.....	
Helder	29.51	749.6	29.51	749.6	46.8	8.2	.....	w.	.....	.....	4	.....	.....	.....	.....	0.008	0.2	.....	
Hellevoetsluis	29.65	753.0	29.65	753.0	46.8	8.2	92	wsw.	.....	.....	4	.....	.....	.....	.....	0.390	9.9	.....	
Utrecht	29.58	751.2	29.62	752.4	47.7	8.7	91	wsw.	.....	.....	4	.....	10	.....	.....	0.287	7.3	raining.....	H. van der Brink.
NORWEGIAN.																			
Bergen	29.52	749.8	29.58	751.4	45.7	7.6	72	sw.	20	9	.....	.....	10	.....	.....	.....	.....	raining.....	
Brono	29.69	754.2	29.73	755.2	38.8	3.8	39	se.	18	8	.....	.....	1	.....	.....	0	0	.....	
Christiania	29.65	753.0	29.80	756.8	42.1	5.6	67	ene.	4	2	.....	.....	7	.....	.....	0	0	.....	
Gjæsvær	29.72	754.9	29.74	755.5	33.3	0.7	.....	wsw.	.....	.....	6	.....	10	.....	.....	.....	.....	.....	
Lodingen	29.79	756.7	29.84	757.9	37.2	2.9	69	s.	.....	.....	2	.....	8	.....	.....	.....	.....	.....	
PORTUGUESE.																			
Angra, Azores	.....	.....	.....	.....	61.5	16.4	87	sW.	22.4	10.0	.....	.....	6	.....	.....	0	0	.....	Dr. J. A. Sampaio.
Campo Major	29.23	742.4	30.22	767.5	69.8	21.0	50	nnw.	3.1	1.4	.....	.....	6	.....	.....	0	0	.....	Dr. A. M. R. dos Santos.
Funchal, Maderia	30.15	765.7	30.23	767.9	64.4	18.0	62	sW.	.....	.....	.....	.....	2	.....	.....	0	0	.....	Capt. D. A. da Cunha.
Lisbon, Observatory	29.93	760.3	30.29	769.4	65.3	18.5	69	nne.	9.8	4.4	.....	.....	4	.....	.....	0	0	.....	The Staff.
Ponta Delgada, Azores	30.00	761.9	30.07	763.7	65.8	18.8	70	s.	28.0	12.5	.....	.....	3	.....	.....	0	0	.....	
Saint Paul de Loando	29.69	754.1	29.89	759.2	82.0	27.8	85	wsw.	0.7	0.3	.....	.....	10	.....	.....	0	0	foggy.....	
Serra da Estrella	25.49	647.5	30.21	767.4	52.9	11.6	22	nnw.	9.4	4.2	.....	.....	5	.....	.....	0.106	2.7	.....	
RUSSIAN.																			
Akmolinski	28.92	734.6	30.05	763.2	30.2	— 1.0	69	sw.	9	4	.....	3 c	0	.....	.....	0	0	light clouds	Major K. Lasarew.
Archangel	29.72	754.9	29.74	755.4	20.5	— 6.4	55	nne.	4	2	.....	2 cs	0	.....	.....	0	0	.....	Capt. Sselliwerstow.
Astrakhan	30.00	762.1	29.92	760.0	57.9	14.4	42	s.	27	12	.....	.....	9 s	.....	.....	0	0	light clouds	Capt. Wisganow.
Barnaul	29.59	751.6	30.11	764.7	39.2	4.0	52	w.	4	2	.....	.....	1	.....	.....	0	0	.....	Meteorological Obs'y.
Dorpat	29.61	752.2	29.87	758.6	34.2	1.2	55	nw.	7	3	.....	.....	10 ks	.....	.....	0	0	.....	Observatory.
Ekaterinburg	28.73	729.7	29.71	754.5	36.7	2.6	80	wsw.	31	14	.....	.....	10	.....	.....	0	0	.....	Meteorological Obs'y.
Kasan	29.56	750.8	29.84	757.8	45.9	7.7	55	ssw.	7	3	.....	.....	2	.....	.....	0	0	.....	Observatory.
Kertch	29.74	755.4	29.76	755.9	754.9	712.7	76	s.	22	10	.....	5 c	0	.....	.....	0	0	.....	Lagorio & Sastyrez.
Kieff	29.01	736.8	29.63	752.7	53.4	11.9	91	e.	7	3	.....	c	7 ks;n	.....	.....	0.016	0.4	.....	Observatory.
Lugan	29.47	748.4	29.66	753.4	72.9	22.7	35	ssw.	13	6	.....	.....	8	.....	.....	0	0	.....	Meteorological Obs'y.
Moscow	29.20	741.7	29.67	753.7	52.2	11.2	39	s.	7.8	3.5	.....	0	7 ks	.....	.....	0.598	15.2	.....	Meteorological Obs'y.
Nikolaiev	29.69	754.0	29.76	755.8	74.7	23.7	40	s.	9	4	.....	0	0	.....	.....	0	0	.....	Capt. Kurdakow.
Nikolaievsk, on the Amoor	29.86	758.5	29.95	760.7	29.5	— 1.4	90	e.	13	6	.....	.....	10	.....	.....	0	0	.....	Lieut. Iwanow.
Pekin, China	29.71	754.7	29.85	758.3	68.7	20.4	43	se.	11	5	.....	0	2 k	.....	.....	0	0	.. ..	Physical Observatory
St. Petersburg	29.79	756.7	29.81	757.1	33.4	0.8	65	nw.	11	5	.....	c	8 kn	.....	.....	0.020	0.5	.....	Central Physical Obs'y
Ssemipalatinsk	29.44	747.7	30.11	764.7	45.5	7.5	59	calm	0	0	.....	4 c	0	.....	.....	0	0	.....	Major Lasaren.
Tashkend, Laboratory	28.60	726.5	30.19	766.7	55.2	12.9	68	calm	0	0	.....	.....	9	.....	.....	0	0	.....	Teich, A. M.
Tiflis	28.61	726.7	29.98	761.4	73.4	23.0	35	se.	2	1	.....	0	8 s	.....	.....	0	0	.....	Physical Observatory
Vladivostok	30.12	765.0	30.19	766.7	35.2	1.8	84	se.	7	3	.....	0	8 k	.....	.....	0	0	.....	
Warsaw	29.29	743.9	29.71	754.5	57.9	14.4	46	ne.	9	4	.....	5 cs	0	.....	.....	.....	.....	.....	Astronomical Obs'y
Wilna	29.33	745.0	29.75	755.7	49.3	9.6	61	n.	4	2	.....	.....	10	.....	.....	0	0	heavy cl'ds..	Berg, Assistant.
Yeniseisk	29.67	753.6	29.97	761.1	37.0	2.8	58	W.	4	2	.....	.....	5	.....	.....	0	0	.....	M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	29.93	760.2	30.03	762.8	63.5	17.5	62	se.	2.9	1.3	.....	.....	0	.....	.....	0	0	clear.....	Antonio Rave, Director,
Bilbao, Met. Obs'y	30.24	768.0	30.30	769.5	63.3	17.4	62	nw.	4.7	2.1	.....	3	2	n.	.....	0.138	3.5	cloudy.....	Prof. Manuel de Naveran:
Burgos, Met. Obs'y	27.25	692.2	30.23	767.9	56.7	13.7	46	n.	8.0	3.6	.....	.....	0	.....	.....	0	0	clear.....	Domingo Martin.
Madrid, Royal Obs'y	27.96	710.1	30.15	765.7	67.6	19.8	31	w.	6.3	2.8	.....	3	0	n.	.....	0	0	light clouds	The Staff.
Murcia, Met. Obs'y	29.98	761.6	30.13	765.3	79.9	26.6	37	nw.	3.4	1.5	.....	3	3	ese.	.....	0	0	cloudy	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.33	745.0	30.24	768.0	58.5	14.7	71	calm	0	0	.....	.....	3	.....	.....	0.220	5.6	cloudy.....	R. Gil Vallanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I	30.06	763.6	30.13	765.2	75.2	24.0	85	calm	0	0	.....	0	0	.....	.....	0	0	clear.....	Benito Vines, S. J.
Manilla, Philippine Islands	29.85	758.1	29.90	759.5	80.9	27.2	62	e.	1.3	0.6	.....	0	1 ks	.....	.....	0	0	clear.....	F. Faura, S. J.
San Fernando, Naval Obs'y	30.10	764.4	30.19	766.9	75.4	24.1	42	n.	7.0	3.1	.....	0	1	.....	n.	0	0	.....	Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	30.00	762.1	30.10	764.4	75.6	24.2	87	calm	0	0	.....	1 c	2 k	w.	e.	0	0	d. clouds	Manuel Maeu.
Tuguegarao, Philippine Id's	29.81	757.2	29.94	760.5	80.1	26.7	74	nnw.	6.6	3.0	.....	0	7 ks	.....	ne.	0	0	cloudy	José L. Yrastorza.
SWEDISH																			
Haparanda	29.87	758.7	29.91	759.7	35.2	1.8	50	n.	.....	.....	2	.....	5	.....	.....	0	0	.....	
Umea	29.90	759.4	29.95	760.7	39.2	4.0	48	sw.	.....	.....	2	.....	8	.....	.....	0	0	.....	
Hernosand	29.88	758.9	29.93	760.2	33.3	0.7	63	calm	.....	.....	0	.....	1	.....	.....	0	0	.....	
Stockholm	29.73	755.1	29.91	759.6	39.9	4.4	32	ese.	.....	.....	2	.....	0	.....	.....	0	0	.....	
Wisby	29.77	756.2	29.83	757.7	44.2	6.8	52	ese.	.....	.....	4	.....	0	.....	.....	0	0	.....	
Sub-series.																			
Upsala	29.81	757.2	29.90	759.4	39.0	3.9	40	nw.	4.0	1.8	.....	.....	1	.....	.....	0	0	.....	S. G. Fineman.
SWISS.																			
Geneva	28.56	725.3	29.99	761.8	49.5	9.7	66	W.	.....	.....	1	.....	.....	.....	.....	0.429	10.9	covered	The Observatory

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
TURKISH.																			
Constantinople	.....	.....	29.78	756.4	69.8	21.0	39	ese.	3	1.5	.....	.....	5	.....	s.	0	0	.....	The Observatory.
Valona	.....	.....	29.83	757.7	64.0	17.8	.....	sw.	.....	1	.....	.....	10	.....	.....	0	0	covered	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	29.84	757.9	82.0	27.8	40	e.	.....	.....	1	0	0	.....	.....	0	0	.....	Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	29.98	761.5	30.06	763.5	51.5	10.8	43	sw.	2	0.9	.....	hz.	0	.....	.....	0	0	clear	J. O. Barnes.
Alpena, Michigan	29.36	745.7	30.06	763.5	49	9.4	50	w.	8	3.6	.....	0	0	.....	.....	0	0	clear.....	Jas. J. Fitzgerald.
Atlanta, Georgia	29.07	738.4	30.25	768.3	55.0	12.8	74	se.	6	2.7	.....	9 k	0	s.	.....	0	0	cloudy	H. Hall.
Atlantic City, New Jersey	30.13	765.3	30.14	765.5	48.5	9.2	67	w.	6	2.7	.....	0	0	.....	.....	0	0	clear.....	Jas. M. Watson.
Augusta, Georgia	30.10	764.5	30.29	769.4	51	10.6	86	calm	0	0	.....	0	2 s;fg	.....	.....	0	0	clear.....	John Healy.
Baltimore, Maryland	30.16	766.1	30.21	767.3	53	11.7	48	nw.	5	2.2	.....	0	hz.	.....	.....	0	0	clear.....	Robert Seyboth.
Barnegat, New Jersey	30.10	764.5	30.12	765.0	52.0	11.1	52	nw.	9	4.0	.....	0	0	.....	.....	0	0	clear.....	Chas. F. Merritt.
Bismarck, Dakota	28.05	712.5	29.92	760.0	36	2)2	82	e.	14	6.3	.....	.....	10 n	.....	.....	0.34	8.6	light rain....	Cyrus Cramer.
Boise City, Idaho	27.22	691.4	30.06	763.5	42	5.6	60	se.	2	0.9	.....	.....	10 s	.....	calm	0	0	cloudy	B. E. Light.
Boston, Massachusetts	29.87	758.7	30.03	762.7	51.5	10.8	44	ne.	4	1.8	.....	3 cs	hz.	.....	.....	0	0	clear.....	O. B. Cole.
Brownsville, Texas	29.90	759.4	29.95	760.7	74	23.3	90	se.	12	5.4	.....	0	0	.....	.....	inap.	inap.	clear.....	J. C. Galloway.
Buffalo, New York	29.37	746.0	30.14	765.5	41.4	5.2	83	s.	7	3.1	.....	.....	hz.	.....	.....	0	0	dense haze...	Wm. Finn.
Burlington, Vermont	29.67	753.6	29.97	761.2	43.3	6.3	40	calm	0	0	.....	5 ck	5 s	nw.	w.	0	0	cloudy.....	G. C. Schneffer.
Cairo, Illinois	29.72	754.9	30.13	765.3	53.0	12.0	58	se.	4	1.8	.....	8 c	0	w.	.....	0	0	cloudy.....	W. H. Ray.
Campo, California	27.49	698.2	30.07	763.8	30	— 1.1	88	nw.	3	1.3	.....	0	0	.....	.....	0	0	clear.....	W. H. Clendenon.
Camp Thomas, Arizona	27.30	693.4	30.03	762.7	33.5	0.8	67	calm	.....	.....	0	0	0	.....	.....	0	0	clear.....	J. T. Fitzgerald.
Cape Henry, Virginia	30.21	767.3	30.23	767.8	53	11.7	55	sw.	7	3.1	.....	0	hz.	.....	.....	0	0	clear.....	J. E. Lanouette.
Cape May, New Jersey	30.14	765.5	30.17	766.3	50	10.0	80	w.	1	0.4	.....	0	0	.....	.....	0	0	clear.....	W. Bolten.
Cedar Keys, Florida	30.21	767.3	30.23	767.8	67	19.4	84	ne.	4	1.8	.....	2 cs	0	.....	.....	0	0	clear.....	F. W. Mixer.
Champaign, Illinois	29.23	742.4	30.07	763.8	46.2	7.9	68	s.	11	4.9	.....	.....	10 s	.....	s.	0	0	cloudy.....	L. A. Welsh.
Charleston, S. Carolina	30.20	767.1	30.26	768.6	59.5	15.3	81	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.37	746.0	30.23	767.8	52.0	11.1	72	sw.	2	0.9	.....	0	fg.	.....	.....	0	0	clear.....	D. O. Donoghue.
Chattanooga, Tennessee	29.41	747.0	30.24	768.1	51.0	10.6	86	calm	0	0	.....	2 cs	fg.	calm	.....	0	0	clear.....	B. L. Gouilding.
Cheyenne, Wyoming	23.78	604.0	29.78	756.4	33.1	0.6	65	nw.	28	12.5	.....	.....	10 s	.....	.....	0	0	cloudy.....	E. McGovern.
Chicago, Illinois	29.36	745.7	30.09	764.3	52.0	11.1	57	s.	6	2.7	.....	10 c	hz.	.....	.....	0	0	cloudy	J. Mitchell.
Chincoteague, Virginia	30.17	766.3	30.19	766.8	52	11.1	66	nw.	8	3.6	.....	0	hz.	.....	.....	0	0	clear.....	V. P. Temple.
Cincinnati, Ohio	29.53	750.0	30.20	767.1	45	7.2	80	s.	2	0.9	.....	3 c	0	sw.	.....	0	0	clear.....	R. B. Watkins.
Cleveland, Ohio	29.44	747.8	30.20	767.1	41.2	5.1	68	se.	6	2.7	.....	0	0	.....	.....	0	0	clear.....	J. B. Newlin.
Coleman City, Texas	28.07	713.0	29.89	759.2	60	15.6	93	s.	5	2.2	.....	0	6 s	.....	s.	0	0	fair.....	L. Dorman.
Columbus, Ohio	29.33	745.0	30.20	767.1	43	6.1	71	w.	2	0.9	.....	7 cs	0	sw.	.....	0	0	fair	D. Cuthbertson.
Concho, Texas	27.92	709.2	29.86	758.4	63	17.2	90	s.	8	3.6	.....	0	0	.....	.....	0	0	clear.....	W. W. McConihe.
Davenport, Iowa	29.30	744.2	29.97	761.2	51	10.6	66	se.	4	1.8	.....	4 cs	4 s;hz	calm	calm	0	0	cloudy.....	R. R. Martin.
Dayton, Washington T'y	28.26	717.8	30.01	762.2	35.8	2.1	86	calm	0	0	.....	5 c	0	w.	.....	0	0	fair.....	H. Clifford.
Deadwood, Dakota	25.17	639.3	29.86	758.4	33	0.6	92	ne.	4	1.8	.....	.....	10 n	.....	.....	1.68	42.7	light snow..	G. W. Scott.
Decatur, Texas	.....	.....	.....	.....	65	18.3	64	w.	8	3.6	.....	0	0	.....	.....	0	0	clear.....	D. J. Carr.
Delaware Breakwater, Del.	30.17	766.3	30.19	766.8	49	9.4	71	w	7	3.1	.....	0	hz.	.....	.....	0	0	clear.....	A. Schneider.
Denison, Texas	29.12	739.6	29.92	760.0	65.2	18.4	84	s.	4	1.8	.....	.....	10 s	.....	sw.	0	0	cloudy.....	J. McGlone.
Denver, Colorado	24.49	622.0	29.76	755.9	35.5	1.9	70	s.	3	1.3	.....	0	4 ks	.....	n.	0.20	5.1	fair.....	F. M. Neal.
Des Moines, Iowa	28.86	733.0	29.79	756.7	53	11.7	66	s.	14	6.3	.....	0	7 s	.....	s.	0	0	fair	F. W. Conrad.
Detroit, Michigan	29.44	747.8	30.16	766.1	48.2	9.0	71	sw.	6	2.7	.....	0	0	.....	.....	0	0	clear.....	C. F. R. Wappenhans.
Dodge City, Kansas	27.11	688.6	29.75	755.6	39	3.9	42	w.	12	5.4	.....	3 cs	0	.....	.....	0	0	clear.....	E. A. Thomas.
Dubuque, Iowa	29.23	742.4	29.96	761.0	49.7	9.8	64	se.	4	1.8	.....	.....	10 s	.....	s.	0	0	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.20	741.7	29.92	760.0	40	7.8	100	nw.	2	0.9	.....	.....	10s;fg	.....	calm	0.15	3.8	cloudy.....	N. B. Conger.
Eagle Pass, Texas	29.10	739.1	29.91	759.7	71.0	21.7	82	se.	9	4.0	.....	.....	10 s	.....	.....	0	0	cloudy.....	F. Belford.
Eagle Rock, Idaho	25.30	642.6	30.02	762.5	33	0.0	81	sw.	5	2.2	.....	0	0	.....	.....	0.09	2.3	clear.....	J. M. Clifford.
Eastport, Maine	29.90	759.4	29.97	761.2	33	0.6	58	nw.	10	4.5	.....	2 c	0	.....	.....	0	0	clear.....	J. H. Melton.
El Paso, Texas	26.29	667.8	30.03	762.7	43	6.1	25	nw.	6	2.7	.....	0	0	.....	.....	0	0	clear.....	J. F. Marshall.
Erie, Pennsylvania	29.42	747.3	30.18	766.6	50	10.0	58	sw.	3	1.3	.....	0	0	.....	.....	0	0	clear.....	R. H. Paxton.
Escanaba, Michigan	29.34	745.2	30.03	762.7	42	5.6	73	s.	2	0.9	.....	6 k	0	w.	.....	0	0	fair.....	O. Dill.
Florence, Arizona	28.54	724 9	30.04	763.0	32.8	0.4	52	calm	0	0	.....	0	0	.....	.....	0	0	clear.....	R. R. Herman.
Fort Apache, Arizona	25.03	635.8	29.95	760.7	22	— 5.6	64	ne.	3	1.3	.....	0	0	.....	.....	0	0	clear.....	W. O. Barnes.
Fort Assinnaboine, Montana	27.15	689.6	30.05	763.3	31	— 0.6	71	s.	8	3.6	.....	0	0	.....	.....	0	0	clear.....	B. O. Lenoir.
Fort Bennett, Dakota	28.09	713.5	29.73	755.1	46	7.8	86	n.	8	3.6	.....	.....	10 s	.....	.....	0.08	2.0	cloudy.....	T. Gibson.
Fort Benton, Montana	27.18	690.4	30.04	763.0	29	— 1.7	67	calm	0	0	.....	0	0	.....	.....	0	0	clear.....	S. Wheaton.
Fort Buford, Dakota	28.01	711.4	30.08	764.0	32	0.0	71	ne.	8	3.6	.....	0	0	.....	.....	0	0	clear.....	A. H. Bell.
Fort Custer, Montana	26.84	681.7	30.02	762.5	33	0.6	100	w.	4	1.8	.....	.....	10 n	.....	calm	0.36	9.1	light snow..	V. Verge.
Fort Davis, Texas	25.06	636.5	29.86	758.4	48	8.9	48	w.	4	1.8	.....	0	0	.....	.....	0	0	clear.....	J. Williams.
Fort Elliott, Texas	27.02	686.3	29.80	756.9	47	8.3	38	se.	4	1.8	.....	5 c	0	se.	.....	0	0	fair.....	W. J. Cundall.
Fort Gibson, Indian T'y	29.32	744.7	29.90	759.4	62.0	16.7	72	s.	10	4.5	.....	.....	10 s	.....	s.	0	0	cloudy	J. B. Campbell.
Fort Grant, Arizona	25.25	641.3	29.98	761.5	34	1.1	29	e.	4	1.8	.....	0	0	.....	.....	0	0	clear.....	T. J. Macgowan.
Fort Keogh, Montana	27.47	697.7	30.01	762.2	37	2.8	82	n.	8	3.6	.....	10 cs	0	.....	.....	0	0	cloudy	W. B. Stockman.
Fort Macon, North Carolina	30.25	768.3	30.26	768.6	55	12.8	86	w.	3	1.3	.....	hz.	hz.	calm	calm	0	0	light haze...	L. Leonardy.
Fort McKavett, Texas	27.76	705.1	30.02	762.5	59	15.0	67	s.	5	2.2	.....	0	0	.....	.....	0	0	clear.....	J. E. Thatcher.
Fort Missoula, Montana	26.72	678.7	30.02	762.5	32	0.0	88	e.	3	1.3	.....	0	0	.....	.....	0	0	clear.....	J. H. Jones.
Fort St. Michaels, Alaska	30.22	767.6	30.26	768.6	— 5	—20.6	100	nw.	3	1.3	.....	0	0	.....	.....	0	0	clear.....	A. P. Leavitt.
Fort Shaw, Montana	26.33	668 8	30.00	762.0	28	— 2.2	88	w.	1	0.4	.....	0	0	.....	.....	0.01	0.3	clear.....	A. L. Mathews.
Fort Sill, Indian Territory	28.58	725.9	29.82	757.4	62.2	16.8	90	s.	18	8.0	.....	.....	10 s	.....	s.	0	0	cloudy	T. Cleary.
Fort Stevenson, Dakota	28.08	713.2	29.98	761.5	36	2.2	82	ne.	17	7.6	.....	.....	10 k	.....	ne.	0	0	cloudy.....	W. Burrows
Fort Verde, Arizona	.....	.....	.....	.....	36.8	2.7	51	n.	.....	.....	1	0	0	.....	.....	0	0	clear.....	D. Brooks.
Fort Washakie, Wyoming	24.39	619.5	.....	.....	34.2	1.2	92	se.	5	2.2	.....	.....	10 ks	.....	se.	0.12	3.0	cloudy.....	T. M. Ambler.
Fredericksburg, Texas	28.15	715.0	29.87	758.7	67	19.4	90	sw.	11	4.9	.....	.....	10 ks	.....	sw.	0	0	cloudy.....	H. S. Miles.
Galveston, Texas	29.94	760.5	29.98	761.5	72	22.2	100	s.	13	5.8	.....	.....	10 ks	.....	s.	0.23	5.8	threatening..	E. O'C. MacInernev.
Grand Haven, Michigan	29.41	747.0	30.10	764.5	54.0	12.2	48	s.	14	6.3	.....	0	0	.....	.....	0	0	clear.....	W. A. Reid.
Hatteras, North Carolina	30.24	768.1	30.26	768.6	57	13.9	74	nw.	9	4.0	.....	0	0	.....	.....	0	0	clear.....	R. M. Crawford.
Helena, Montana	25.78	654.8	30.04	763.0	31	— 0.6	62	w.	2	0.9	.....	0	0	.....	.....	0	0	clear.....	N. O. Smith.
Henrietta, Texas	28.86	733.0	29.89	759.2	62.0	16.7	87	s.	14	6.3	.....	0	5 s	.....	sw.	0	0	fair.....	J. W. Byram.
Huron, Dakota	28.23	717.0	29.68	753.9	48	8.9	83	ne.	14	6.3	.....	.....	10 ks	.....	ne.	0.33	8.4	cloudy.....	S. W. Glenn.
Indianapolis, Indiana	29.31	744.5	30.13	765.3	49.5	9.7	78	se.	4	1.8	.....	2 c	hz.	calm	calm	0	0	clear.....	O. Schutze
Indianola, Texas	29.90	759.4	29.93	760.2	73.5	23.1	97	se.	13	5.8	.....	7 ck	3 s	w.	s.	0	0	cloudy.....	I. A. Reed.
Jacksboro, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. P. Sherry.
Jacksonville, Florida	30.18	766.6	30.22	767.6	63	17.2	90	ne.	6	2.7	.....	0	fg.	.....	.....	0	0	clear.....	J. W. Smith.
Keokuk, Iowa	29.27	743 4	29.94	760.5	49.5	9.7	46	se.	8	3.6	.....	.....	10 s	.....	se.	0	0	cloudy	F. Z. Gosewisch
Key West, Florida	30.11	764.8	30.13	765.3	79.0	26.1	74	e.	6	2.7	.....	0	2 ks	.....	e.	0	0	clear.....	L. M. Melbourne.
Kittyhawk, North Carolina	30.24	768.1	30.26	768.6	53.5	11.9	64	w.	15	6.7	.....	0	0	.....	.....	0	0	clear.....	E. A. Beals.
Knoxville, Tennessee	29.21	741.9	30.25	768.3	46.9	8.3	69	ne.	3	1.3	.....	0	sk.	.....	.....	0	0	clear.....	J. A. Cody.
La Crosse, Wisconsin	29.11	739.4	29.91	759.7	53	11.7	48	se.	12	5.4	.....	.....	10 s	.....	.....	0	0	cloudy.....	S. C. Emery.
La Mesilla, New Mexico	26.08	662.4	29.96	761.0	39.7	4.3	55	calm	0	0	.....	0	0	.....	.....	0	0	clear.....	N. D. Lane.
Leavenworth, Kansas	28.88	733.5	29.80	756.9	56	13.3	62	s.	11	4.9	.....	.....	10 s	.....	sw.	0.09	2.3	cloudy.....	A. W. Browne.
Lewiston, Idaho	29.22	742.2	30.07	763.8	38.2	3.4	58	e.	1	0.4	.....	3 cs	5 s	.....	.....	0	0	cloudy.....	W. Blake.
Little Rock, Arkansas	29.67	753.6	29.99	761.7	57	13.9	74	se.	3	1.3	.....	0	8 s	.....	s.	0	0	cloudy.....	W. U. Simmons.
Los Angeles, California	29.75	755.6	30.15	765.8	44.2	6.8	76	ne.	1	0.4	.....	0	0	.....	.....	0	0	clear.....	E. F. Kubel.
Louisville, Kentucky	29.57	751.1	30.14	765.5	48	8.9	77	e.	2	0.9	.....	10 cs	sk.	w.	.....	0	0	cloudy	H. C. Smyth.
Lynchburg, Virginia	29.54	750.3	30.25	768.3	43.8	6.6	74	calm	0	0	.....	0	fg.	.....	.....	0	0	clear.....	W. R. Bushby.
Madison, Wisconsin	29.00	736.6	30.04	763.0	46	7.8	76	s.	5	2.2	.....	.....	10 s	.....	sw.	0	0	cloudy.....	C. A. Shaw.
Marquette, Michigan	29.24	742.7	29.99	761.7	44	6.7	68	w.	1	0.4	.....	.....	10 s	.....	calm	0	0	cloudy.....	J. Gilligan.
Mason, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	P. M. Wilson.
Memphis, Tennessee	29.75	755.6	30.09	764.3	57	13.9	69	se.	4	1.8	.....	6 cs	0	sw.	.....	0	0	fair.....	D. T. Flannery.
Milwaukee, Wisconsin	29.28	743.7	30.05	763.3	50	10.0	86	sw.	3	1.3	.....	9 c	0	w.	.....	0	0	cloudy.....	W. Line.
Mobile, Alabama	30.12	765.0	30.16	766.1	60	15.6	81	n.	1	0.4	.....	2 c	3 ks	s.	nw.	0	0	fair.....	J. D. Paxton.

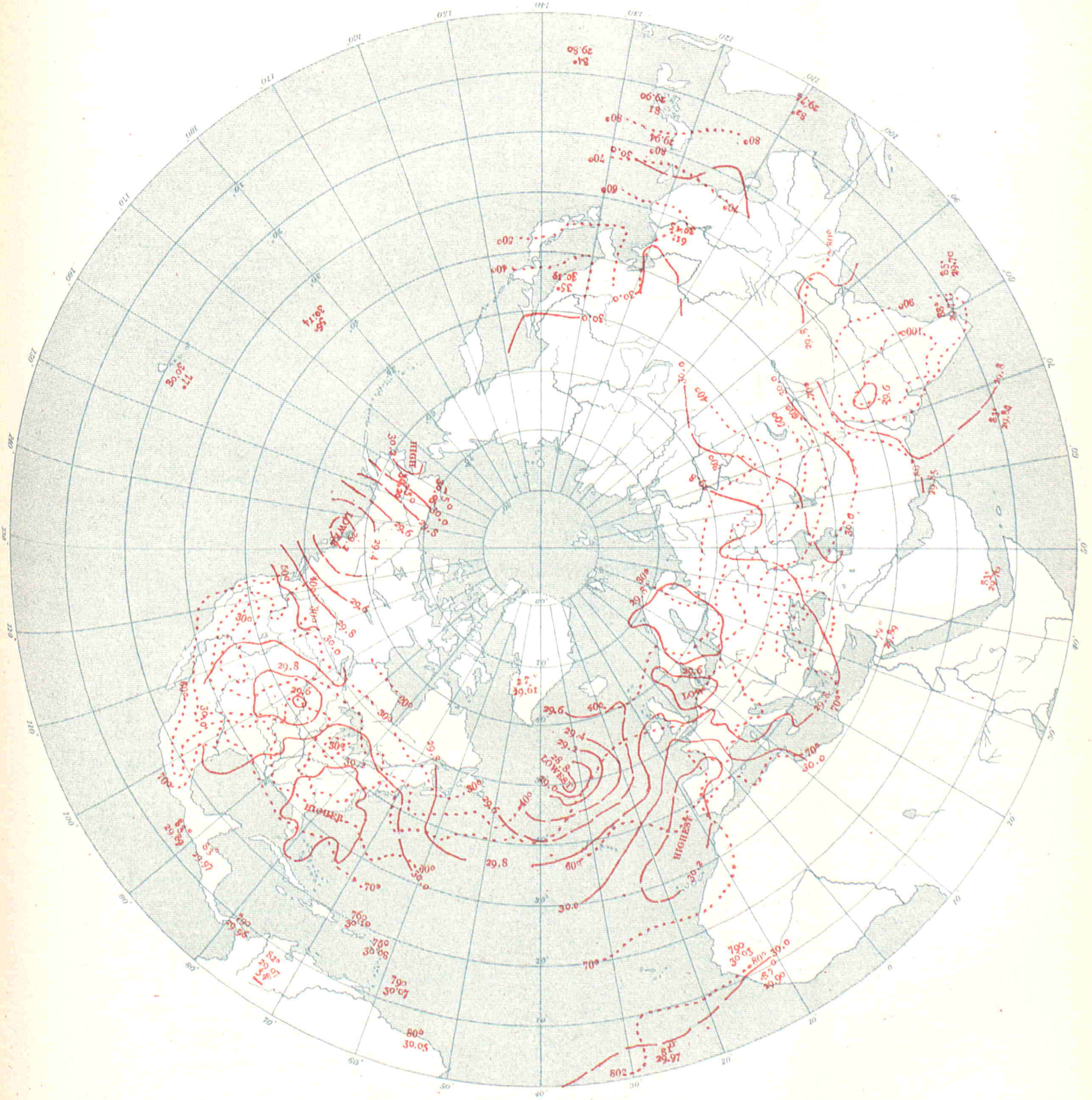
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
UNITED STATES.—Cont'd.																			
Montgomery, Alabama	29.95	760.7	30.19	766.8	58.4	14.7	74	se.	1	0.4		0	0			0	0	clear	J. B. McLaughlin.
Moorhead, Minnesota	28.81	731.8	29.84	757.9	44	6.7	93	ne.	12	5.4			10 s		ne.	0.41	10.4	cloudy	H. Bessant.
Morgantown, W. Virginia	29.22	742.2	30.26	768.6	40.0	4.4	82	calm	0	0		0	0			0	0	clear	G. C. Lewis.
Mt. Washington, N. H.	23.58	598.9	29.99	761.7	21.0	— 6.1	89	nw.	54	24.2			fg.		nw.	0	0	light fog	J. G. Linsley.
Nashville, Tennessee	29.63	752.6	30.17	766.3	47.5	8.6	86	calm	0	0		7 c	fg.	w.		0	0	fair	L. A. Jesunofsky.
New Haven, Connecticut	29.96	761.0	30.08	764.0	50	10.0	52	w.	4	1.8		1 c	sk.			0	0	clear	J. H. Sherman.
New London, Connecticut	30.01	762.2	30.06	763.5	55	12.8	55	w.	2	0.9		0	0			0	0	clear	J. G. Lynch.
New Orleans, Louisiana	30.03	762.7	30.09	764.3	67.2	19.6	90	e.	7	3.1		6 cs; k	0	w.		0	0	fair	S. Dunne.
Newport, Rhode Island	29.98	761.5	30.03	762.7	52.0	11.1	52	nw.	3	1.3		5c;ck	2 ks;hz	c; ne	nw.	0	0	fair	W. McGillivray.
New River, N. Carolina					54	12.2	75	w.			1	0	0			0	0	clear	C. C. Corbin.
New Shoreham, Rhode I'd.	30.01	762.2	30.04	763.0	50.0	10.0	63	w.	12	5.4		3 c	0	w.		0	0	clear	W. Davis.
New York, New York	29.95	760.7	30.13	765.3	51	10.6	52	w.	5	2.2		0	0			0	0	clear	E. B. Garriott.
Norfolk, Virginia	30.20	767.1	30.23	767.8	55	12.8	62	nw.	3	1.3		0	hz.			0	0	clear	J. T. Elker.
North Platte, Nebraska	26.69	677.9	29.65	753.1	46.6	8.1	83	w.	12	5.4			10 s			0.18	4.6	cloudy	E. F. Brady.
Olympia, Washington T'y	29.91	759.7	29.95	760.7	49.0	9.4	77	s.	10	4.5			10 n		s.	0.02	0.5	light rain	J. Dascomb.
Omaha, Nebraska	28.46	722.9	29.67	753.6	55.6	13.1	73	se.	22	9.8		0	0			0	0	clear	A. Pollak.
Ooglaamie, Pt. Barrow, Alas.	30.04	763.0	30.06	763.5	— 4.7	—20.4	90	sse.	11	4.9			10 s			0	0	cloudy	P. H. Ray.
Oswego, New York	29.72	754.9	30.06	763.5	47.0	8.3	63	w.	12	5.4		0	hz.			0	0	clear	S. W. Beall.
Palestine, Texas	29.40	746.7	29.96	761.0	68.0	20.0	92	e.	12	5.4			10 ks		s.	0	0	cloudy	L. M. Pindell.
Pensacola, Florida	30.13	765.3	30.16	766.1	62.3	16.8	93	e.	6	2.7		1 ck	8 s	w.	se.	0	0	cloudy	M. McGauran.
Philadelphia, Pa	30.07	763.8	30.17	766.3	54	12.2	43	nw.	8	3.6		0	0			0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	17.39	441.7	29.67	753.6	4	—15.6	100	n.	36	16.1			10 s		n.	0.24	6.1	cloudy	L. M. Dey.
Ploche, Nevada	24.03	610.4	30.02	762.5	28	— 2.2	80	s.	1	0.4		1 k	0	calm		inap.	inap.	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.38	746.2	30.21	767.3	40.6	4.8	76	calm	0	0			fg.			0	0	dense fog	J. H. Bryce.
Port Eads, Louisiana	30.12	765.0	30.13	765.3	71.1	21.7	94	e.	6	2.7			10 s			0	0	cloudy	H. G. Christian.
Port Huron, Michigan	29.43	747.5	30.13	765.3	41.6	5.3	67	s.	6	2.7		0	0			0	0	clear	W. O. Bailey.
Portland, Maine	29.95	760.7	30.00	762.0	46.0	7.8	40	e.	2	0.9			10 s		calm	0	0	cloudy	D. C. Murphy.
Portland, Oregon	29.95	760.7	30.02	762.5	49.0	9.4	93	s.	8	3.6			10 n		s.	0.05	1.3	light rain	M. L. Hearne.
Portsmouth, N. Carolina					59	15.0	75	w.	8	3.6		0	hz.		calm	0	0	clear	F. P. Chaffee.
Prescott, Arizona	24.78	629.4	30.00	762.0	27	— 2.8	61	s.	4	1.8		0	0			0	0	clear	J. Mc N. Wright.
Provincetown, Mass.	30.00	762.0	30.03	762.7	46	7.8	76	se.	7	3.1		2 cs	2 s			0	0	fair	P. T. Jenkins.
Punta Rassa, Florida	30.14	765.5	30.15	765.8	71.5	21.9	83	ne.	8	3.6		0	0			0	0	clear	W. J. Evans.
Red Bluff, California	29.76	755.9	30.13	765.3	46.0	7.8	83	nw.	1	0.4		0	1 s			0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.62	752.3	29.86	758.4	70	21.1	90	se.	12	5.4		0	0			0	0	clear	W. H. Taylor.
Rochester, New York	29.40	746.7	30.10	764.5	46	7.8	68	sw.	15	6.7		0	hz.			0	0	clear	A. T. Sherwood.
Roseburg, Oregon	29.56	750.8	30.12	765.0	51	10.6	83	calm	0	0			10 s			0.06	1.5	threatening	J. J. Nanry.
Sacramento, California	30.06	763.5	30.14	765.5	47.7	8.7	86	se.	6	2.7		0	2 s			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.44	747.8	30.05	763.3	50.9	10.5	59	s.	10	4.5			10 s		sw.	0	0	cloudy	J. H. Webber.
St. Paul, Minnesota	28.94	735.1	29.83	757.7	50.0	10.0	74	se.	10	4.5		4 k	0	sw.		0	0	fair	P. F. Lyons.
St. Vincent, Minnesota	29.09	738.9	30.00	762.0	34	1.1	79	n.	10	4.5		0	5 s		calm	0	0	fair	G. Kingsbury.
Salt Lake City, Utah	25.65	651.5	30.02	762.5	39	3.9	65	calm	0	0			10 s			0.15	3.8	cloudy	J. Craig.
San Antonio, Texas	29.20	741.7	29.90	759.4	68.5	20.3	93	se.	2	0.9			10 ks		se.	0	0	cloudy	E. Lane.
San Diego, California	30.03	762.7	30.10	764.5	47.6	8.7	87	ne.	7	3.1		0	0			0	0	clear	A. C. Dobbins.
Sandusky, Ohio	29.47	748.5	30.17	766.3	49.4	9.7	63	s.	11	4.9		0	0			0	0	clear	M. H. Perry.
Sandy Hook, New Jersey	30.08	764.0	30.12	765.0	48.0	8.9	71	nw.	11	4.9		0	0			0	0	clear	B. A. Blundon.
San Francisco, California	30.10	764.5	30.17	766.3	49	9.4	93	sw.	4	1.8		0	fg.			0	0	clear	N. Gorom.
Santa Fé, New Mexico	23.09	586.5	29.85	758.2	30	— 1.1	71	se.	1	0.4		0	6 k		w.	0	0	fair	H. U. Jones.
Savannah, Georgia	30.17	766.3	30.26	768.6	62	16.7	75	e.	5	2.2		4 c	0			0	0	fair	H. W. Ford.
Shreveport, Louisiana	29.76	755.9	30.00	762.0	63	17.2	90	s.	8	3.6			10 s		s.	0	0	threatening	E. N. Meekins.
Silver City, New Mexico	24.22	615.2	29.90	759.4	31	— 0.6	54	w.	2	0.9		0	0			0	0	clear	J. B. Wallace.
Sitka, Alaska	28.97	735.8	29.03	737.3	38.1	3.4	85	se.	10	4.5			10 ks		se.	0.60	15.2	cloudy	J. J. McLean.
Smithville, North Carolina	30.24	768.1	30.28	769.1	53	11.7	93	n.	3	1.3		0	0			0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	27.96	710.2	30.02	762.5	33	0.6	88	w.	1	0.4		3 c	0			0	0	clear	D. Moore.
Springfield, Illinois	29.35	745.5	30.05	763.3	51	10.6	59	s.	7	3.1		5 cs	2 s	w.	sw.	0	0	fair	T. B. Jennings.
Springfield, Massachusetts	29.93	760.2	30.06	763.5	52.4	11.3	52	s.	2	0.9		7 c	hz.	w.		0	0	fair	T. S. Outram.
Springfield, Mo.	28.49	723.6	30.01	762.2	54	12.2	74	s.	8	3.6		4 ck	5 ks	w.	sw.	0	0	cloudy	J. B. Marbury.
Stockton, Texas	26.92	683.8	29.95	760.7	48.0	8.9	80	sw.	6	2.7		8 cs	0	calm		0	0	cloudy	J. O'Dowd.
Thatcher's Island, Mass.	29.93	760.2	29.98	761.5	45.4	7.4	80	se.	5	2.2		0	0			0	0	clear	G. Liebmann.
Toledo, Ohio	29.44	747.8	30.15	765.8	48	8.9	63	w.	7	3.1		0	sk.			0	0	clear	A. Buell.
Tucson, Arizona	27.62	701.5	30.01	762.2	39	3.9	50	se.	5	2.2		0	0			0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.68	753.9	30.05	763.3	45.5	7.5	75	s.	12	5.4		3 cs	0			0	0	clear	J. Daly.
Uvalde, Texas	28.91	734.3	29.88	758.9	71	21.7	84	se.	4	1.8			10 ks		se.	0	0	cloudy	E. C. Imlay.
Vicksburg, Mississippi	29.82	757.4	30.08	764.0	59	15.0	75	se.	3	1.3		5 k	0	calm		0	0	fair	T. J. Kenan.
Visalia, California	29.75	755.6	30.12	765.0	42.1	5.6	74	nw.	4	1.8		0	0			0	0	clear	J. T. Cochran.
Washington, D. C.	30.12	765.0	30.24	768.1	46	7.8	77	calm	0	0		0	sk.			0	0	clear	B. M. Purssell.
West Las Animas, Colorado	25.80	655.3	29.76	755.9	40	4.4	42	sw.	6	2.7		0	8 s		w.	0	0	cloudy	J. Grover.
Wickenburg, Arizona					35	1.7	67	calm			0	0	0			0	0	clear	H. A. Kremp.
Williamsport, Pa.	29.56	750.8	30.17	766.3	44	6.7	60	w.	5	2.2			hz.			0	0	dense haze	B. F. Hough.
Wilmington, N. Carolina	30.21	767.3	30.27	768.8	54	12.2	80	calm	0	0		0	hz.			0	0	clear	E. W. McGann.
Winnemucca, Nevada	25.66	651.8	30.06	763.5	28	— 2.2	77	sw.	5	2.2		2 ck	0	sw.		0	0	clear	J. R. Williams.
Yankton, Dakota	28.21	716.5	29.55	750.6	50	10.0	86	se.	12	5.4			10 ks		se.	0.27	6.9	cloudy	J. H. Atfield.
Yuma, Arizona	29.88	758.9	30.03	762.7	45.4	7.4	70	ne.	2	0.9		0	0			0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.07	560.6			53.5	11.9	79	w.	2.4	1.1		0	3 ks		sw.	0	0	fair	Joaquin Gomez.
Bridgetown, Barbados, W.I.	30.06	763.5	30.07	763.8	79	26.1	90	e.				5 k	5 ks	e.	e.	0.90	22.9	cloudy	J. A. Racker.
Buenaventura, U. S. C.																			J. I. Plume.
Guadeloupe, W. I.	29.96	761.0	29.98	761.5	75	23.9	87	e.				7 k	0			0.039	1.0	hazy	B. Bigar.
Havana, Cuba, W. I.	30.10	764.5	30.15	765.8	80	26.7	79	se.	1.2	0.5		0	2 ks		calm	inap.	inap.	fair	A. Van Caneghem.
Kingston, Jamaica, W. I.	30.07	763.8	30.08	764.0	78.8	26.0	73	n.	1	0.4		0	0			0	0	fine	Robert Johnston.
Navassa, W. I.																			F. M. Everett.
Paramuribo, S. A.	30.05	763.3	30.05	763.3	80	26.7	82	e.			2	5 k	8 ks	e.		0.870	22.1	cloudy	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.51	749.5	29.97	761.2	82	27.8	80	n.			1		9 ks		calm	0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.							90	ne.			4	0	0			0	0	clear	Earl Flint.
Santiago de Cuba, W. I.	30.07	763.8	30.10	764.5	78	25.6	78	n.	3.6	1.6		0	1 ks			0	0	fair	Robert Mason.
York Factory, B. A.	29.78	756.4	29.83	757.7	18.0	— 7.8	92	sw.	9	4.0		4 k	3 s	sw.	sw.	0.01	0.3	cloudy	W. Wood.

STATIONS AND VESSELS.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
BRITISH NAVAL.																		
H. M. S. Alert, S. 6° 08′, E. 53° 54	29.81	757.2	85	29.4	73	s.			1–2		9							d. clouds.
H. M. S. Alexandra, Malta, Mediterranean	29.92	760.0	66	18.9	68	wnw.			3–6		4	nnw.						squally.
H. M. S. Bacchante, Haifa Bay, Palestine	29.83	757.7	91	32.8	36	se.			1		1	nw.						blue sky.
H. M. S. Cleopatra, Point de Galle, Ceylon, India	29.70	754.4	84.5	29.2	83						0							blue sky.
H. M. S. Comus, Pelew Island, Oceania	29.80	756.9	84	28.9	91	e.			1–4		4	ne.						d. clouds.
H. M. S. Diamond, S 39° 12′, E. 144° 48′	30.16	766.1	59	15.0	87	s.			1–2		10					1	s.	overcast.
H. M. S. Dido, N. 17° 00′, W. 61° 45′	30.11	764.8	78	25.6		e.			2		2	e.						d. clouds.
H. M. S. Druid, N. 20° 48′, W. 73° 45′	30.10	764.5	77.5	25.3	90	calm			0		1					1	s.	blue sky.
H. M. S. Dryad, N. 24° 21′, E. 56° 45′	29.75	755.6				nne.			1		9	nw.				2	ne.	misty.
H. M. S. Eclipse, S. 12° 10′, E. 44° 20′			82	27.8	100	calm			0		3					1	wnw.	d. clouds.
H. M. S. Espiegle, S. 38° 34′ E. 140° 33′	30.14	765.5	61	16.1	88	se.			1		9					3	sw.	d. clouds.
H. M. S. Fawn, N. 13° 21′, E. 43° 10′	29.76	755.9	83	28.3	77	s.			6		0					3	s.	misty.
H. M. S. Gannet, S. 29° 56′, W. 71° 20′	30.06	763.5	57	13.9	81	calm			0		0							blue sky.
H. M. S. Garnet, Montevideo, Uruguay	29.74	755.4	68	20.0	69	nw.			4		10							raining.
H. M. S. Inconstant, Simon's Bay, Cape Colony	30.20	767.1	65	18.3	78	ese.			3–4		1	ese.				2	e.	squally.
H. M. S. Iron Duke, N. 22° 16′, E. 114° 10′	29.96	761.0	69	20.6	90	n.			1		5	n.						d. clouds.
H. M. S. Lark, S. 10° 17′, E. 161° 37′	29.90	759.4	78.3	25.7		calm			0		10							overcast.
H. M. S. Magpie, N. 35° 25′, E. 139° 43′	30.13	765 3	58.5	14.7	77	calm			0		0							misty.
H. M. S. Malabar, Suez Canal, Egypt	29.89	759.2	79	26.1	61	sse.			2		0							blue sky.
H. M. S. Nelson, Sydney, N. S. Wales	30.10	764.5	73	22.8	81	w.			1		1	e.						blue sky.
H. M. S. Northampton, Bermuda, W. I.	30.09	764.3	63	17.2	75	w.			2		6	nw.						d. clouds.
H. M. S. Orontes, N. 35° 00′, W. 8° 00′	30.20	767.1	64.5	18.1	85	nne.			3		0					2	n.	blue sky.
H. M. S. Pegasus, N. 2° 51′, E. 107° 39′	29.74	755.4	82	27.8	100	wnw.			1–2		2						nw.	d. clouds.
H. M. S. Rambler, S. 9° 28′ E. 12° 25′	29.86	758.4	80	26.7	95	ssw.			2		4	ssw.				2	ssw.	d. clouds.
H. M. S. Rocket, Esquimalt, Vancouver Island, B. C.	29.89	759.2	47	8.3		calm			0		7							d. clouds.
H. M. S. Superb, Corfu Roads, Ionian Island*	29.70	754.4	66	18.9	68	var.			1–2		2	ssw.						gloomy.
H. M. S. Thalia, S. 28° 21′, E. 10° 19′	30.11	764.8	69	20.6	75	se.			5		4					3	se.	d. clouds.
H. M. S. Triumph, Coquimbo, Chili	30.05	763.3	60	15.6	76	calm			0		1	calm						blue sky.
H. M. S. Tyne, N. 9° 41′, E. 65° 22′	29.84	757.9	83	28.3	79	nnw.			3		3	nnw.				2	nw.	d. clouds.
PORTUGUESE NAVAL.																		
Rio Lima, Bulama, Senegambia	30.03	762.8	79.2	26.2	98	nw.			1		0							blue sky.
Tamega, Aberdeen, China	30.03	762.7	73.4	23.0	87	e.			2		0							blue sky.
SWEDISH NAVAL.																		
Balder, N. 40° 09′ W. 72° 30′	30.05	763 2	46.4	8.0	94	wnw.			2		1							misty.
UNITED STATES NAVAL.																		
Navy Yard, Pensacola, Fla	30.13	765.3	67	19.4	89	ne.	4	1.8			2		se.	0	0			fair.
Naval Hospital, Portsmouth, N. H	30.10	764.5	41	5.0	74	e.	5	2.2			10		nw.	0	0			cloudy.
Naval Hospital, Yokohama, Japan	29.94	760.5	57.5	14.2	63	w.			2		0			0	0			clear.
Adams, N. 12° 17′, W. 92° 25′	29.74	755.4	83	28.3	87	nne.			2		2		n.	0	0	mod.	ne.	clear.
Alaska, Panama, Panama	29.86	758.4	79	26.1	82	nw.			1		0			0	0	sm'h		clear.
Alert, N. 33° 46′ E. 135° 08′*	30.01	762.2	64	17.8	58	ese.			1		2		sw.	0	0	sm'h		hazy.
Alliance, Vera Cruz, Mexico	29.97	761.2	74	23.3	90	s.			1		8			0	0	sm'h		cloudy.
Ashuelot, Kobe, Japan	30.11	764.8	56	13.3	63	calm			0		0							hazy.
Brooklyn, Montevideo, Uruguay	29.71	754.6	64	17.8	100	n.	18	8.0			10		n.	0.3	8.	sm'h		rainy.
Colorado, New York, N. Y.			55	12.8	62	wnw.	12	5.4			0			0	0			clear.
Enterprise, N. 19° 05′, W. 80° 18′*	30.07	763.8	81	27.2	83	ne.			2-3		2		ne.			sm'h		clear.
Essex, S. 9° 59′, W. 24° 31′	30.04	763.0	80	26.7	82	e.			3		2		se.			mod.	se.	clear.
Franklin, Norfolk, Va	30.25	768.3	50	10.0	79	nw.	4	1.8			0			0	0			clear.
Galena, Leghorn, Italy	29.69	754.1	61	16.1	88	sw.			5		2					sm'h	sw.	fair.
Independence, Mare Island, Cal	29.96	761.0	52	11.1	86	sw.			1		0			0	0			clear.
Irquois, Mare Island, Cal	30.09	764.3	52	11.1	86	sw.			2		0							clear.
Kearsage, N. 28° 25′, W. 72° 27′	30.21	767.3	68	20.0	79	ne.			4		5		ne.			long	ne	fair.
Lackawanna, Casma Bay, Peru*	29.89	759.2	65	18.3	94	sw.			1		5		sw.					hazy.
Lancaster, Leghorn, Italy*	29.70	754.4	60	15.6	76	wsw.			6		2		calm	0	0	r'gh		fair.
Marion, S. 25° 58′, E. 1° 46′	30.17	766.3	72	22.2	90	ese.			2		8					sm'h		cloudy.
Michigan, Erie, Pa	30.04	763.0	47	8.3	92	sw.			2		0							clear.
Minnesota, Newport, R. I	30.02	762.5	53	11.7	54	nw.	2	0.9			5		w.					fair.
Monocacy, Kobe Japan	30.13	765.3	57	13.9	81	nnw.			1		0							clear.
New Hampshire, Newport, R. I	29.96	761 0	54	12.2	49	nw.			1		5					sm'h		fair.
Nipsic, Villafranca, France	29.62	752.3	65	18.3	63	ese.			3		5					long	sw.	fair.
Onward, Callao, Peru†	30.05	763.3	61	16.1	100	calm			0		10		w.			long	w.	foggy.
Palos, Kobe, Japan	30.14	765.5	54	12.2	74	calm			0		0							fair.
Passaic, Washington, D. C	30.23	767.8	48	8.9	85	sw.			1		0							clear.
Pensacola, Callao, Peru	29.97	761.2	64	17.8	83	calm	0	0			10			0	0	sm'h		foggy.
Powhatan, N. 19° 00′ W. 81° 23′	30.08	764.0	81	27.2	87	ne.			2		2					sm'h		clear.
Portsmouth, N. 40° 21′, W. 67° 56′	30.00	762.0	42	5.6	100	nne.			2		0					long	sw.	clear.
Quinnebang, Leghorn, Italy	29.67	753.6	61	16.1	66	sw.			5		2		w.			long	sw.	hazy.
Ranger, N. 19° 40′, W. 105° 16′*	29.93	760.2	63	17.2	67	calm			0		5			0	0	sm'h		fair.
Richmond, Kobe, Japan*	30.06	763.5	60	15.6	60	calm			0		0			0	0			clear.
Saratoga, N. 40° 20′ W. 68° 00′*	30.00	762.0	43	6.1	75	n.			2		0			0	0	sm'h	sw.	clear.
Shenandoah, N. 15° 21′, W. 81° 35′*	30.10	764.5	80	26.7	82	ne.			3		8		ne.			mod.	ne.	cloudy.
St. Louis, League Island, Pa	30.38	771.6	52	11.1	60	wsw.	1	0.4			0			0	0			clear.
Swatara, Kobe, Japan*	29.96	761.0	59	15.0	65	calm			0		2		calm			sm'h		fair.
Tennessee, Port Royal, S. C	30.29	769.4	62	16.7	?	ene.	7.5	3.4			5							fair.
Vandalia, Hampton Roads, Va†	30.43	772.9	56	13.3	87	nw.			1		0							hazy
Wabash, Boston, Mass	30.01	762.2	49	9.4	78	w.	2	0.9			2		nw.	0	0			clear.
Wachusetts, Sitka, Alaska	28.95	735.3	37	2.8	100	ese.			1		10					sm'h		raining.
Wyoming, Port Royal, S. C	30.26	768.6	60	15.6	88	e.	6	2.7			5		w.	0	0			fair.
Yantic, N. 34° 45′ W. 75° 37′*†	30.07	763.8	62	16.7	66	nw.			2		0					sm'h		clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.			Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
ALLAN LINE.																	
S. S. Nova Scotian, N. 42° 53′, W. 48° 00′	29.65	753.1	39	3.9		wsw.			2		10	ssw.			slight	e.	cloudy.
S. S. Polynesian, Liverpool, Eng*	29.63	752.6	57	13.9		nw.			4		9	wnw.	1 h'r	1 h'r			fine.
S. S. Waldensian, N. 42° 34′, W. 47° 07′*	29.71	754.6	48	8.9		sw.			2		hz		0	0	con.		hazy.
AMERICAN STEAMSHIP COMPANY.																	
S. S. British Crown, N. 40° 15′, W. 59° 41′†	29.90	759.4	56	13.3		wnw.			6		5	wnw.	0	0	r'gh	wnw	fine.
S. S. Illinois, N. 45° 35′, W. 36° 37′	29.22	742.2	48	8.9	92	W.			7		2	e.			mod.	w.	clear.
S. S. Indiana, Philadelphia, Pa.†	30.15	765.8	63	17.2	43	nw.			4		5	nw.	0	0			fair.
S. S. Ohio, Liverpool, Eng.†	29.64	752.8	46	7.8	92	W.			5		9	w.					cloudy.
S. S. Pennsylvania, N. 49° 38′, W. 20° 18′†	29.49	749.0	56	13.3	93	wsw.			6			nw.			r'gh	wsw.	overcast.
ANCHOR LINE.																	
S. S. Assyria, N. 42° 25′, W. 49° 37′*†	29.73	755.1	42	5.6		se.			4		2	se.	0	0	mod.	ne.	clear.
S. S. Devonia, N. 52° 30′ W 25° 45′†	29.03	737.3	57	13.9		ssw.			3		10	sw.			short	sw.	dull.
S. S. Galatia, London, England.†	29.41	747.0				nw.			7		6?	sw.	2 h'r	2 h'r			clear?
S. S. India, N. 29° 13, E. 32° 43′*	29.79	756.7	73	22.8	95	se.			1		1						clear.
ATLAS LINE.																	
S. S. Ailsa, N. 24° 01′, W. 74° 11′†	30.15	765.8	74	23.3	81	e.			2		2	nw.	0	0	mod.	sw.	fair.
S. S. Alvo, Savanilla, U. S. C	30.61	777.5	103	39.4		ne.			6		1	ne.	0	0			fair.
S. S. Arden, N. 18° 25′, W. 75° 23′						ene.			1		2	ne.					fine.
S. S. Athos, N. 38° 35′, W. 74° 12′	29.99	761.7				wsw.			2		0		0	0	mod.	w.	dull.
S. S. Claribel, Kingston, Jamaica, W. I.*†	30.18	766.6	82	27.8	.78	calm			0		2	calm	0	0			fine.
BOSTON AND HALIFAX LINE.																	
S. S. Carroll, Halifax, N. S.†	29.78	756.4	60	15.6	76	nnw.			2				0	0			clear.
BRITISH METEOROLOGICAL OFFICE.																	
S. S. Arran, S. 14° 36′, W. 28° 19′	30.08	764.0	82	27.8	65	se.			4		0						blue sky.
Baroda, N. 8° 10′ E. 81° 57′	29.74	755.4	87.5	30.8	80	calm			0		7						gloomy.
British Merchant, S. 17° 36′ E. 80° 45′	29.90	759.4	79	26.1	70	ese.			6		5						misty.
CROMWELL LINE.																	
S. S. Hudson, New York, N. Y.†	30.13	765.3	54	12.2		W.			3		0		0	0			clear.
CUNARD LINE.																	
S. S. Parthia, N. 45° 54′, W. 36° 56′†	29.30	744.2				W.			8		8	wnw.	0	0	cross		
GENERAL TRANS-ATLANTIC COMPANY.																	
S. S. Canada, Havre, France	29.90	759.4	50.0	10.0		nw.			6		4	nw.	5 h'r	5 h'r			clear.
S. S. France, N. 48° 42′, W. 21° 00′†	29.52	749.8	50.0	10.0		sw.			6			ssw.	rain	rain	hv'y	ssw.	raining.
S. S. St. Germain, New York, N. Y			53.6	12.0		nw.			2			nw.					
HAMBURG AMERICAN PACKET COMPANY.																	
S. S. Gellert, N. 40° 35′, W. 72° 00′	30.08	764.0	45	7.2		W.			2		1	W.	0	0	sm'h		clear.
S. S. Lessing, N. 40° 45′, W. 44° 33′	29.69	754.2	62	16.7		nw.			5		8	nnw.	0	0	long	nnw.	cloudy.
S. S. Silesia, New York, N. Y.†	30.18	766.6	57.2	14.0		nnw.			2		0		0	0			fair.
INMAN LINE.																	
S. S. City of New York, N. 40° 47′, W. 73° 00′	30.11	764.8				W.			2		0		0	0	sm'h	w.	clear.
JOHNSTON LINE.																	
S. S. Thanemore, N. 46° 56′, W. 33° 24′	29.15	740.4				wsw.			7		5?	wsw.	sh'rs	shr's		wsw.	clear?
LAMPERT AND HOLT'S LINE.																	
S. S. Hevelius, N. 16° —′, W. 26° —′*†	30.29	769.4	74	23.3		nne.			2		8?	ne.	0	0	long	nw.	clear.?
S. S. Humboldt, S. 1° 10′, W. 31° 00′*	30.02	762.5	79.5	26.4	89	sse.			2		3		0	0	3	s.	d. clouds.
LEYLAND LINE.																	
S. S. Iberian, N. 49° 26′, W. 32° 37′	28.70	729.0				sw.			7		10	wsw.	4 h'r	4 h'r	high	w.	
MALLORY LINE.																	
S. S. Colorado, N. 25° 50′, W. 79° 50′†	30.13	765.3	75	23.9		ene.			4		0		0	0	high	ne.	clear.
MERCHANTS' EXPRESS LINE.																	
S. S. Freja, N. 49° 06′, W. 20° 27′†	29.62	752.3	58	14.4	94	ssw.			6		2	sw.	6 h'r	6 h'r		sw.	drizzling.
NATIONAL LINE.																	
S. S. England, Liverpool, Eng	29.40	746.7				sw.			6		2		0	0			fine.
S. S. Erin, London, England	29.75	755.6	55	12.8		nw.			4		5	wnw.	2 h'r	2 h'r			
S. S. Helvetia, N. 49° 50′, W. 24° 19′			54	12.2		ssw.			7		10	sw.	rain	rain		sw.	heavy rain.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																	
S. S. Santiago, N. 39° 40′, W. 74° 00′†	30.07	763.8	45	7.2		wnw.			3		0		0	0	sm'h		hazy.
NEW YORK HAVANA AND MEXICAN MAIL.																	
S. S. City of Alexandria, N. 34° 15′, W. 75° 36′*†	30.35	770.9	66	18.9		nne.			3		2	nw.	0	0	sm'h	ne.	clear.
S. S. City of Puebla, Vera Cruz, Mexico.†	29.80	758.4	71	21.7		ssw.			1		8	se.					
NEW YORK HERALD WEATHER SERVICE.																	
S. S. Atlas, Petit Goave, Hayti, W. I.*†	30.16	766.1	81	27.2		calm			0						sm'h		clear.
S. S. W. A. Scholten, N. 42° 57′ W. 40° 58′	29.45	748.0	44.5	6.9		wnw.			6								
NORTH GERMAN LLOYD.																	
S. S. Elbe, N. 45° 55′, W. 38° 34′	29.31	744.5	45.0	7.2	77	wnw.			7–9		8	wnw.	h'vy	h'vy	h'vy	wnw.	heavy rain.
S. S. Graf Bismarck, N. 9° 57′, W. 27° 27′	30.21	767.3	79.7	26.5		ene.			4–5		3	ene.	0	0	mod.	ene.	fair.
S. S. Hermann, N. 38° 05′, W. 70° 00′†	29.96	761.0	53.6	12.0		wnw.			3		0		0	0		wnw.	fair.
S. S. Hohenzollern, N. 41° 53′, W. 10° 32′*	30.25	768.3	54.5	12.5		ne.			2		7	ne.	0	0	sm'h	ne.	fair.
S. S. Koln, N. 49° 23′, W. 26° 02′	29.10	739.1	56.5	13.6	87	sw.			9		10		10 h'r	10 h'r	high	sw.	light rain.
S. S. Kronprinz F. Wilhelm, N. 49° 47′, W. 13° 29′	29.84	757.9	50.9	10.5		s.			5		10		6 h'r	6 h'r	5	wsw.	raining.
S. S. Leipzig, N. 49° 09′, W. 14° 22′	29.89	759.2	53.5	11.9	?	s.			0		10	ssw.	5 h'r	5 h'r	mod.	ssw.	misty.
S. S. Main, N. 47° 21′, W. 33° 57′	29.16	740.7	54.5	12.5		W.			6–7		9	w.	light	light	high	wsw.	heavy rain.
S. S. Neckar, N. 49° 37′ W. 7° 10′	30.04	763.0	55.8	13.2		W.			3		5	W.	0	0	mod.	w.	fair.
S. S. Nurnburg, N. 48° 20′, W. 25° 16′*	29.28	743.7	56.3	13.5		s.			9		10	s.	15 h'r	15 h'r	h'vy	s.	misty.
S. S. Oder, N. 43° 11′, W. 46° 15′	29.68	753.9	32.0	0.0		W.			1		2	W.	0	0	sm'h	w.	fair.
S. S. Ohio, N. 39° 50′, W. 53° 32′	29.68	753.9				nw.			4		4	W.	4⅜ h'r	4⅜ hr	mod.	nnw.	fair.
S. S Rhein, N. 39° 53′. W. 55° 05′	29.58	751.3				wnw.			6		6	nw.	light	light	r'gh	wnw.	cloudy.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																	
S. S. Belgic, San Francisco, Cal†	30.12	765.0	52	11.1	73	sw.			3		5	nw.	0	0	sm'h		fine.
S. S. Oceanic, Hong Kong, China*	29.92	760.0	71	21.7	85	var.			2		6?	ne.; sw.					cloudy.?
OCEAN STEAMSHIP COMPANY.																	
S. S. City of Augusta, New York, N. Y †	30.05	763.3				nw.			1		0		0	0			clear.
S. S. Seminole, Savannah, Ga.†	30.32	770.1	64	17.8	89	ne.			1		1	e.	0	0			clear.
OREGON IMPROVEMENT COMPANY.																	
S. S. Willamette, Strait of Fuca, Wash. Ter.*†	29.87	758.7	45	7.2	84	calm			0		5	se.	0.04	1.0			rainy.
OREGON RAILWAY AND NAVIGATION COMPANY.																	
S. S. City of Chester, Nanaimo, Vancouver's Id, B.C.*†	29.80	756.9	45	7.2	?	se.			1		2?	s.					cloudy.?
S. S. Oregon, N. 43° 46′, W. 124° 04′†	30.09	764.3	51	10.6	93	s.			3						light	sw.	misty.
PACIFIC COAST STEAMSHIP COMPANY.																	
S. S. Ancon, N. 32° 40′, W. 117° 15′†	30.08	764.0	54	12.2	87	e.			3		0				sm'h		clear.
S. S. Idaho, San Francisco, Cal.†	30.10	764.5	51	10.6	100	nw.			2		0						clear.
S. S. State of California, San Francisco, Cal.†	30.15	765.8	48	8.9	85	calm			0		8						foggy.
S. S. Victoria, Nanaimo, Vancouver's Island, B. C.†	29.78	756.5	47	8.3	92	se.			2		2		0	0			clear.
PACIFIC MAIL STEAMSHIP COMPANY.																	
S. S. Australia, Sydney, N. S. W	30.11	764.8	66	18.9	84	calm			0		0						clear.
S. S. City of New York, Sydney, N. S. W.†	30.14	765.5	69	20.6	90	calm			0		0		0	0			clear.
S. S. City of Pekin, N. 13° 58′, W. 90° 34′†	29.95	760.7	80	26.7	82	calm			0		2				sm'h		hazy.
S. S. City of Rio de Janeiro, N. 12° 55′, W. 88° 30′*†	30.17	766.3	83	28.3	71	e.			4		6	e.			sm'h	e.	cloudy.
S. S. City of Sydney, N. 37° 37′, W. 122° 51′†	30.16	766.1	50	10.0	93	nw.			4		10	nw.	0	0	mod	nw.	foggy.
S. S. City of Tokio, N. 35° 42′, W. 176° 16′†	30.14	765.5	56	13.3	87	nw.			7		10	nnw.	8 h'r	8 h'r	r'gh	nw.	stormy.
S. S. Clyde, N. 13° 21′, W. 89° 02′†	29.96	761.0	80	26.7	78	nne.			1		5	ene.	0	0	light	sw.	fair.
S. S. Colon, N. 13° 09′, W. 77° 28′†	30.02	762.5	81	27.2		nne.			4		1	ne.	0	0	mod.	ne.	clear.
S. S. South Carolina, Panama, Panama†	30.07	763.8	82	27.8	75	nnw.			2		5	var.	0	0	light	nnw.	fair.
S. S. Zelandia, N. 22° 30′, W. 156° 10′	30.08	764.0	77	25.0	91	e.			4		8	ne.			mod.	ne.	dull.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch	Mill.			
QUEBEC STEAM SHIP COMPANY.																		
S. S. Muriel, N. 12° 10′, W. 60° 16′	30.05	763.3	79	26.1	.....	ene.	.....	.....	3	.....	0	.....	.....	0	0	mod.	ne.	fair.
S. S. Bermuda, N. 31° 55′, W. 68° 10′†	30.24	768.1	58	14.4	.....	nw.	.....	.....	4	.....	9	.....	nnw.	0	0	.....	.....	fine.
RED STAR LINE.																		
S. S. Belgenland, Antwerp, Belgium†	29.89	759.2	50	10.0	?	w.	.....	.....	7	.....	10	.....	w.	20 h'r	20 h'r	.....	.....	rainy.
S. S. Rhynland, N. 41° 38′, W. 45° 41′	29.67	753.6	52	11.1	79	sw.	.....	.....	3	.....	4	.....	wsw.	0.2	5.	long	n.	fair.
S. S. Switzerand, N. 48° 14′ W. 18° 04′†	29.82?	757.4?	.....	.....	.....	ssw.	.....	.....	5	.....	10	.....	ssw.	4 h'r	4 h'r	long	ssw.	cloudy.
S. S. Vaderland, Antwerp, Belgium	29.43	747.5	55	12.8	80	w.	.....	.....	6	.....	10	.....	.....	8 h'r	8 h'r	.....	.....	hazy.
S. S. Waesland, N. 39° 38′, W. 57° 05′	29.71	754.6	52	11.1	.....	wsw.	.....	.....	6	.....	10	.....	wsw.	1½h r	1½h'r	mod.	wsw.	raining.
STATE LINE.																		
S. S. State of Florida, Glasgow, Scotland	29.39	746.5	52	11.1	.....	ssw.	.....	.....	4	.....	10	.....	s.	driz	driz	sm'h	.....	cloudy.
S. S. State of Indiana, N. 44° 03′ W. 47° 08′ †	29.39	746.5	36	2.2	.....	nw.	.....	.....	3	.....	4?	.....	nw.	0	0	sm'h	.....	cloudy.?
THINGVALLA LINE.																		
S. S. Thingvalla, N. 56° 04′ W. 21° 09′.†	29.84	757.9	47.3	8.5	.....	ese.	.....	.....	3	.....	10	.....	ese.	1 h'r	1 h'r	mod	ese.	covered.
WARREN LINE.																		
S. S. Iowa, N. 47° 13′, W. 34° 49′*†	29.32	744.7	48	8.9	.....	wsw.	.....	.....	8	.....	8	.....	wsw.	3 h'r	3 h'r	hv'y	wsw.	raining.
WHITE CROSS LINE.																		
S. S. Hermann, N. 43° 40′ W. 38° 48′*	29.49	749.0	.....	.....	.....	wnw.	.....	.....	6	.....	9 ks	.....	wnw.	sq'lls	sq'lls	h'vy	nw.	raining.
WHITE STAR LINE.																		
S. S. Celtic, N. 42° 49′, W. 48° 00′†	29.59	751.6	38	3.3	.....	s.	.....	.....	3	.....	5	.....	sw.	4 h'r	4 h'r	sm'h	.....	fair.
WILSON LINE.																		
S. S. Romano, N. 40° 22′, W. 72° 02′†*	29.92	760.0	45	7.2	.....	w.	.....	.....	.....	.....	.....	.....	.....	.....	.....	sm'h	.....	clear.
S. S. Salerno, N. 49° 23 W. 14° 20′*	29.79	756.7	53.2	11.8	97	ssw.	.....	.....	6	.....	10	.....	ssw.	.....	.....	rg'h	sw.	drizzling.
WINSOR LINE.																		
S. S, Catherine Whiting, Philadelphia, Pa†	30.31	769.9	.....	.....	.....	wnw.	.....	.....	1	.....	0	.....	.....	0	0	.....	.....	
MISCELLANEOUS.																		
Schr. Abbie Clifford, N. 41° 32′, W. 69° 23′*†	29.92	760.0	58	14.4	.....	ene.	.....	.....	2	.....	4	.....	nw.	0	0	sla'h	se.	fair.
Schr. Addie Fuller, N. 32° 30′. W. 79° 16′†	30.34	770.6	67	19.4	49	ene.	.....	.....	3	0	4 k	.....	sw.	0	0	sm'h	.....	fair.
Bk. Adelaide, Rio de Janeiro, Brazil*†	30.15	765.8	78	25.6	.....	calm	.....	.....	0	.....	.....	.....	.....	.....	.....	.....	.....	
Schr. Ajax, Mobile, Ala†	29.97	761.2	.....	.....	.....	nw.	.....	.....	1	.....	10	.....	w.	0	0	.....	.....	cloudy.
Bk. Alpha, Off Cuba, W. I.†	30.02	762.5	80	26.7	.....	ne.	.....	.....	4	.....	2	.....	ne.	0	0	sm'h	.....	fair.
Bk Antioch, S. 38° 00′, E. 3° 00′*†	29.87	758 7	65	18.3	.....	nw.	.....	.....	6	.....	10	.....	nw.	6 h'r	6 h'r	mod.	n.	overcast.
Schr. Asa Eldridge, N. 23° 10′, W. 82° 05′†	30.08	764.0	.....	.....	.....	ne.	.....	.....	3	.....	5	.....	ne.	0	0	cross	ne.	fair.
Bk. Aureola, N. 2° 31′ W. 28° 25′*†	30.12	765.0	89	31.7	.....	e.	.....	.....	4	.....	8	.....	ese.	6½ hr	6½ hr	light	se.	squally.
Schr. Annie M. Smull, S. 42° 15′. E. 50° 00′*†	29.50	749.3	55	12.8	.....	.....	.....	.....	.....	.....	.....	.....	.....	0	0	.....	.....	
Bkt. Carrie Heckle, N. 19° 42′ W. 76° 27′*†	30.20	767.1	80	26.7	.....	ne.	.....	.....	2	.....	0	.....	.....	0	0	sm'h	se.	clear.
Bk. Celestina, S. 29° 23′ W. 45° 38′*†	30.02	762.5	.....	.....	.....	nne.	.....	.....	3	.....	2	.....	n.	0	0	long	sw.	
Bk. Champion, N. 44° 54′, W. 31° 24′†	29.51	749.5	.....	.....	.....	wsw.	.....	.....	10	.....	8	.....	wsw.	rain	rain	hv'y	wsw.	
S. S. Compton, N. 26° 20′?, W 81° 00′†	30.16	766.1	.....	.....	.....	ese.	.....	.....	3	.....	3	.....	se.	0	0	sm'h	.....	clear.
Dora, N. 30° 15′ W. 79° 30′†	30.30	769.6	68.0	20.0	.....	ese.	.....	.....	6	.....	10	.....	ese.	6 h'r	6 h'r	mod.	ne.	raining.
S. Enoch Train, N. 42° 18′ W. 37° 24′*	29.44	747.8	.....	.....	.....	wnw.	.....	.....	6	.....	8	.....	wnw.	shr's	shr's	h'vy	w.	showery.
S. Exporter, N. 6° 30′, W. 26° 00′*†	30.15	765.8	.....	.....	.....	ene.	.....	.....	4	.....	8	.....	se.	0	0	long	ne.	fine
S. Festina Lente, N. 40° 30′, W. 51° 02′*	29.68	753.9	50	10.0	.....	sw.	.....	.....	6	.....	6	.....	w.	0	0	mod.	nw.	threatening.
U.S. F.C.S. Fish Hawk, Quantico, Va†	30.32	770.1	49	9.4	71	nw.	.....	.....	1	.....	0	.....	.....	0	0	.....	.....	clear.
S. Grecian, S. 41° 39′, E. 4° 13′*†	29.68	753.9	58	14.4	.....	nnw.	.....	.....	5	.....	10	.....	w.	20h'r	20 h'r	mod.	nne.	hazy.
Bk. Freya, N. 40° 41′, W. 42° 27′	.....	.....	50	10.0	.....	wnw.	.....	.....	6	.....	5	.....	nw.	0	0	long	nw.	fair.
Bk. Granville, Algoa Bay, Africa*†	30.25	768.3	.....	.....	.....	wsw.	.....	.....	4	.....	.....	.....	wsw.	rain	rain	.....	.....	squally.
Bk. Hattie G. McFarland, Baltimore, Md.*†	30.18	766.6	52	11.1	.....	nnw.	.....	.....	1	.....	2	.....	w.	0	0	.....	.....	clear.
Schr. Henry Denison, N. 19° 40′, W. 74° 52′†	30.08	764.0	.....	.....	.....	ene.	.....	.....	1–3	.....	2	.....	ene.	0	0	light	ne.	fine.
S. Hedwig, N. 40° 07′, W. 49° 58′	29.69	754.2	53.2	11.8	77	ssw.	.....	.....	5	.....	6	.....	nw'sw.	2 h'r	2 h'r	4	nne.	showery.
Schr. John L. Thomas, Morant Cays, W. I.*†	30.14	765.5	.....	.....	.....	ne.	.....	.....	.....	.....	4	.....	ene.	0	0	mod.	n.	fine.
Bg John Wesley, Sagua la Grande, Cuba, W. I.†	29.99	761.7	79	26.1	.....	se.	.....	.....	2	.....	0	.....	.....	0	0	.....	.....	clear.
Bk. Jona, N. 44° 13′, W. 35° 33′*†	29.65	753.1	.....	.....	.....	w.	.....	.....	7	.....	5	.....	wnw.	2 h'r	2 h'r	cross	var.	clearing.
Bkt. Josephine, Aspinwall, Panama*†	30.06	763.5	83	28.3	74	n.	.....	.....	5	.....	10	.....	n.	0	0	.....	.....	cloudy.
Bk. Kate Cann, N. 49° 22′, W. 7° 54′*†	29.52?	749.8?	.....	.....	.....	s.	.....	.....	4	.....	10	.....	.....	1 h'r	1 h'r	r'gh	w.	raining.
S. Lake Erie, N. 40° 30′ W. 47° 30′	29.70	754.4	.....	.....	.....	wsw.	.....	.....	4	.....	5?	.....	w.	0	0	hv'y	n.	clear ?
Bk. Liberia, N. 14° 08′, W. 24° 27′*†	30.10	764.5	75	23.9	85	ne.	.....	.....	5	.....	4	.....	ne.	0	0	.....	.....	
Light House Tender, Laurel, Key West, Fla†	30.16	766.1	79	26.1	.....	se.	.....	.....	2	.....	3	.....	se.	0	0	.....	.....	clear.
Schr. Maggie Abbott, N. 24° —′, W. 69° —′*†	30.05	763.3	.....	.....	.....	ne.	.....	.....	.....	.....	.....	.....	w.	hv'y	hv'y	.....	n.	cloudy.
S. S. Malabar, N. 35° 34′, E. 17° 19′*†	29.75	755.6	.....	.....	.....	nw.	.....	.....	.....	.....	.....	.....	.....	0	0	.....	.....	
Bg. Medina, Key Francis, W. I.†	30.21	767.3	.....	.....	.....	ne.	.....	.....	1	.....	5	.....	ene.	.....	.....	.....	.....	fine
S. S. Nebo, Santos, Brazil*†	29.97	761.2	.....	.....	.....	nnw.	.....	.....	1	.....	8?	.....	.....	0	0	.....	.....	clear.?
S. S. New York, N. 38° 04′, E. 0° 21′*†	30.30	769.6	.....	.....	.....	w.	.....	.....	.....	.....	.....	.....	w.	0	0	mod.	nw.	fair.
Bk. Peppina, Pauillac, France†	30.08	764.0	54	12.2	86	nw.	.....	.....	6	.....	2	.....	nw.	.....	.....	.....	.....	squally.
S. S. Radnorshire, N. 50° 00′, W. 4° 20′*†	29.90	759.4	.....	.....	.....	nw.	.....	.....	6	.....	1	.....	nw.	3 h'r	3 h'r	mod.	wnw.	clear.
S. Salisbury, N. 4° 09′, W. 27° 02′*	30.07	763.7	81.0	27.2	84	ese.	.....	.....	5	.....	7	.....	se.	½h'r	½h'r	mod.	e.	cloudy.
Schr. S. B. Hubbard, N. 37° 16′, W. 73° 52′*†	30.22	767.6	46	7.8	.....	wnw.	.....	.....	1	.....	0	.....	.....	0	0	chop	w.	fine.
Bkt. Spotless, S. 6° 43′, W. 32° 31′	.....	.....	.....	.....	.....	ene.	.....	.....	.....	.....	.....	.....	.....	.....	.....	mod.	sse.	fine.
Bk. Stella, S. 42° 06′, W. 79° 36′*	30.07	763.8	50.4	10.2	93	se.	.....	.....	1	.....	5	.....	s.	0	0	sm'h	w.	d. clouds.
S. Washington, N. 35° 48′, W. 55° 45′*†	29.87	758.7	.....	.....	.....	wsw.	.....	.....	5	.....	1	.....	wsw.	0	0	r'gh	nw.	clear.
Bg. Wauburn, N. 0° 29′, W. 37° 00′*†	30.00	762.0	.....	.....	.....	ne.	.....	.....	5	.....	6	.....	e.	.....	.....	short	e.	
S. Wm. Woodbury, N. 40° 49′, W. 40° 08′*†	29.48	748.8	54	12.2	.....	wnw.	.....	.....	6	.....	.....	.....	w.	.....	.....	light	w.	squally.

International Chart I. April 18, 1882. Isobars and Isotherms.



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON APRIL 19, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours	.....	.....	30.20	767.0	71.2	21.8	92	w.	.....	.....	2	.....	0	.....	.....	0	0	clear	Moiroud.
Algiers	.....	.....	30.20	767.0	64.0	17.8	65	ene.	.....	.....	2	.....	3	.....	.....	0	0	pretty fair	Nicolas.
La Calle	.....	.....	30.08	763.9	63.7	17.6	68	wnw.	.....	.....	6	.....	4	.....	.....	0	0	cloudy	Foufrède.
Tunis	.....	.....	29.99	761.7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.24	768.0	71.6	22.0	28	n.	.....	.....	2	.....	2	.....	.....	0	0	fair	Dumas.
Tebessa	.....	.....	30.12	765.1	52.2	11.2	63	n.	.....	.....	4	.....	4	.....	.....	0	0	cloudy	Derché.
Geriville	.....	.....	.....	.....	68.4	20.2	20	n.	.....	.....	4	.....	4	.....	.....	0	0	cloudy	Lonchamp.
Laghouat	.....	.....	30.19	766 9	71.6	22.0	61	w.	.....	.....	4	.....	2	.....	.....	0	0	fair	Abraham.
Biskra	.....	.....	30.14	765.6	74.1	23.4	18	nnw.	.....	.....	5	.....	4	.....	.....	0	0	cloudy	Malau.
Australian.																			
Melbourne, Victoria	30.12	765.0	30.21	767.3	55.0	12.8	80	se.	5	2.2	.....	.....	4	.....	.....	0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.47	748.6	30.02	762 4	60.8	16.0	44	ne.	.....	.....	4	.....	10	.....	.....	0	0	.....	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.27	743.5	30.04	763.0	56.1	13.4	73	wnw.	8.1	3.6	.....	.....	10	.....	.....	0.035	0.9	.....	Dr. Wierzbiski.
Eperies	29.04	737.7	29.90	759.5	63.3	17.4	50	n.	.....	.....	3	8 cs	0	.....	.....	0	0	.....	Julius Mikolik.
Gratz	28.78	730.9	30.01	762.2	60.6	15.9	51	nw.	.....	.....	7	.....	2	.....	.....	0	0	.....	Andreas Rospini.
Hermannstadt	28.46	722.9	29.85	758.3	65.3	18.5	60	w.	.....	.....	1	.....	10	.....	.....	0.661	16.8	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.83	732.3	30.19	766.8	50.0	10.0	66	wsw.	.....	.....	1	.....	10	.....	.....	0.012	0.3	raining	The Staff.
Lemberg	28.94	735.0	29.91	759.6	61.3	16.3	48	ne.	.....	.....	1	.....	8	.....	.....	0.189	4.8	.....	Dr. T. Stanecki.
Pola	29.85	758.1	29.96	760.9	60.8	16.0	56	e.	.....	.....	3	.....	7	.....	.....	0.339	8.6	.....	I. R. Hydrographic Office.
Szathmar	29.35	745.6	29.81	757.2	71.2	21.8	41	nw.	.....	.....	3	.....	8	.....	.....	0.047	1.2	.....	Joseph Midlinszky, S. J.
Szegedin	29.60	751.9	29.88	758.9	59.0	15.0	76	nw.	.....	.....	2	.....	10	.....	.....	0.201	5.1	.....	Karl Stancel.
Trieste	29.87	758.7	29.97	761.3	66.2	19.0	35	ne.	.....	.....	2	.....	8	.....	.....	0	0	.....	Rieder.
Vienna	29.41	746.9	30.12	765.1	55.9	13.3	49	nw.	.....	.....	3	.....	8	.....	.....	0	0	.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.44	747.8	29.54	750.3	44.1	6.7	94	s.	13	5.8	.....	.....	10	.....	.....	0	0	misty	W. Boswell.
Armagh, Observatory	29.40	746.7	29.64	752.8	57.0	13.9	81	sw.	25	11.2	.....	.....	10	.....	.....	.....	.....	squally	S. Call.
Bidston, Liverpool Obs'y	.....	.....	29.80	756.9	58.3	14.6	69	sw.	31	13.9	.....	.....	6	.....	.....	.....	.....	d. clouds	John Hartnup.
Bolton, Sharples	29.29	744.0	29.82	757.4	57.8	14.3	71	sw.	24	10.7	.....	.....	8	.....	.....	.....	.....	d. clouds	Thomas Mackereth.
Bradford, Yorkshire	29.42	747.3	29.82	757.4	57.1	13.9	76	sw.	.....	.....	3	.....	9	.....	.....	0.06	1.5	overcast	A.S. J.McLandsborough, F.R
Bridgetown, Barbadoes	30.01	762.2	30.04	763.0	83.0	28.3	70	ne.	.....	.....	3	.....	6	.....	.....	.....	.....	gloomy	Corpl.J.Surgenor, A. H.C.
Cardington	.....	.....	29.95	760.7	60.4	15.8	80	sw.	.....	.....	3.0	.....	10	.....	.....	.....	.....	overcast	John McLaren.
Chatham, School M. E.	29.91	759.7	30.04	763.0	55.5	13.1	84	sw.	.....	.....	3	.....	10	.....	.....	.....	.....	misty	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	29.81	757.2	30.04	763.0	54.3	12.4	91	ssw.	.....	.....	4	.....	10	.....	.....	.....	.....	foggy	The Staff.
Fort Napier, Natal	27.65	702.3	29.87	758.7	74.2	23.4	59	se.	.....	.....	1	.....	0	.....	.....	.....	.....	blue sky	Pvt. E. K. Annis, A.H.C.
Free Town, Sierra Leone	29.70	754.4	29.93	760.2	87.0	30.6	55	w.	.....	.....	1	.....	3	.....	.....	.....	.....	blue sky	Sergt. John Robinson.
Gibraltar, Mediterranean	30.14	765.5	30.19	766.8	72.3	22.4	71	e.	.....	.....	2	.....	0	.....	.....	.....	.....	blue sky	Cpl. O. Baldwin.
Glasgow, Observatory	29.38	746.2	29.59	751.6	54.4	12.4	73	sw.	.....	.....	5	.....	10 n	.....	.....	.....	.....	raining	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.86	758.4	30.03	762.7	53.6	12.0	90	sw.	.....	.....	.....	.....	10	.....	.....	.....	.....	overcast	The Staff.
Guernsey	29.85	758.2	30.15	765.8	56.5	13.6	84	sw.	.....	.....	2	.....	9	.....	.....	.....	.....	d. clouds	A. Collenette, F. M. S.
Kew, Observatory	30.00	762.0	30.04	763.0	55.6	13.1	83	sw.	20	8.9	.....	.....	10	.....	.....	.....	.....	threatening	The Staff.
Leicester, Museum	29.66	753.4	29.91	759.7	58.4	14.7	79	sw.	.....	.....	2	.....	10	.....	.....	.....	.....	overcast	J. C. Smith.
Malta, Mediterranean	29.74	755.4	29.81	757.2	63.6	17.6	54	nw.	.....	.....	4	.....	6	.....	.....	.....	.....	d. clouds	I. H. Whysall.
Nassau, Bahamas	30.16	766.1	30.21	767.3	77.5	25.3	65	e.	.....	.....	1	.....	4	.....	.....	.....	.....	d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.38	746.2	29.90	759.4	55.4	13.0	85	ssw.	.....	.....	3	.....	10	.....	.....	.....	.....	overcast	John Mac Email.
Oxford, Radcliffe Obs'y	29.77	756.1	30.00	762.0	56.5	13.6	85	ssw.	.....	.....	5	.....	10	.....	.....	.....	.....	overcast	The Staff.
Plymouth	29.99	761.7	30.06	763.5	52.7	11.5	95	sw.	.....	.....	4	.....	10	.....	.....	.....	.....	squally	The Staff.
Sandwick Manse, Orkneys	.....	.....	29.41	747.0	43.4	6.3	95	se.	31	13.9	.....	.....	10	.....	.....	.....	.....	raining	John Merrifield.
Scutari Cemetery, Turkey	29.64	752.8	29.71	754.6	69.0	20.6	32	n.	.....	.....	1	.....	4	.....	.....	blank	blank	d. clouds	Rev. C. Clouston, L. L.D.
Sheffield	29.56	750.8	29.85	758.2	61.1	16.2	70	sw.	.....	.....	4	.....	1	.....	.....	0.04	1.0	blue sky	W. H. Lyne.
Silloth Rectory	29.66	753.4	29.70	754.4	51.0	10.6	92	sw.	.....	.....	6	.....	10	.....	.....	0.640	16.3	overcast	W. F. Cooper.
Stonyhurst, Observatory	.....	.....	29.84	757.9	55.6	13.1	78	wsw.	17	7.6	.....	.....	10	.....	.....	.....	.....	overcast	Rev. F. Redford, M. A.
Stratfield Turgiss	.....	.....	.....	.....	55.2	12.9	91	sw.	.....	.....	4	.....	10	.....	.....	.....	.....	raining	Rev. S. J. Perry.
Truro, Royal Institution	29.98	761.5	30.02	762.5	56	13.3	87	sw.	.....	.....	6	.....	10	.....	.....	.....	.....	raining	Rev. C.H. Griffiths, F.M.S
Valencia, Observatory	29.69	754.1	29.71	754.6	53.6	12.0	93	ssw.	32	14.3	.....	.....	10	.....	.....	.....	.....	raining	W. Newcombe.
Canadian.																			The Met'g'l Office.
Bathurst, N. B.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.04	763.0	30.09	764.3	34	1.1	73	calm	0	0	.....	0	0	.....	.....	0	0	clear	H. J. Cundall, C. E.
Chatham, N. B*	30.05	763.3	30.12	765.0	27	— 2.8	84	calm	0	0	.....	0	0	.....	.....	0	0	clear	G. A. Blair.
Father Point, Quebec*	30.03	762.7	30.05	763.3	33	0.6	88	nw.	10	4.5	.....	2 k	0	sw.	.....	0	0	clear	J. McWilliams.
Fort Garry, Manitoba*	29.00	736.6	29.85	758.2	30	— 1.1	88	calm	0	0	.....	0	0	.....	.....	0	0	clear	James Stewart.
Halifax, N. S*	29.99	761.7	30.12	765.0	36	2.2	61	n.	2	0.9	.....	5 c	0	nw.	.....	0	0	fair	A. Allison.
Kingston, Ontario*	29.35	745.5	29.69	754.1	46	7.8	68	ne.	6	2.7	.....	10 k	.....	sw.	0	0	0	cloudy	A. P. Knight, M. A.
Montreal, Quebec*	29.65	753.1	29.86	758.4	40	4.4	89	e.	.....	.....	.....	10 n	.....	.....	.....	0.09	2.3	hazy	C. H. McLeod, C. E.
Parry Sound, Ontario*	28.87	733.3	29.56	750.8	46	7.8	65	e.	23	10.3	.....	10 n	.....	e.	.....	inap.	inap.	light rain	Rev. R. Mosley.
Port Dover, Ontario	28.86	733 0	29.55	750.6	46	7.8	94	e.	2	0.9	.....	10 n	.....	.....	.....	0.07	1.8	light rain	H. Morgan.
Port Stanley, Ontario	28.89	733.8	29.53	750.0	45	7.2	86	e.	12	5.4	.....	10 n	.....	sw.	0	0.14	3.6	light rain	M. Payne.
Quebec, Quebec*	29.67	753.6	30.01	762.2	31	— 0.6	85	ne.	.....	.....	5	2 k	2 s	ne.	ne.	0	0	fair	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.24	742.7	29.71	754.6	39	3.9	92	e.	6	2.7	.....	.....	10 ks	.....	se.	inap.	inap.	threatening	W. H. McIntyre.
Saugeen, Ontario*	28.77	730 7	29.48	748 8	47	8.3	89	s.	18	8.0	.....	.....	10 s	.....	.....	0.20	5.1	heavy rain	
St. Andrews, N. B	30.02	762.5	30.07	763.8	35	1.7	79	se.	1	0.4	.....	2 k	hz	.....	.....	0	0	clear	
Sydney, C. B*	29.97	761.2	30.03	762.7	36	2.2	64	w.	3	1.3	.....	0	0	.....	.....	0	0	clear	T. C. Hill, C. E.
Toronto, Ontario*	29.22	742.2	29.61	752.1	44	6.7	71	e.	8	3.6	.....	.....	10 n	.....	.....	inap.	inap.	light rain	Magnetic Observatory.
Yarmouth, N. S*	30.01	762.2	30.08	764.0	36	2.2	85	sw.	1	0.4	.....	5 ck	0	w.	.....	0	0	fair	Lt. F. E. Wilmot, R. N.
Sub-series.																			
St. Johns, Newfoundland	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	29.97	761.2	30.00	762.0	70.0	21.1	83	e.	8.4	3.8	.....	0	0	.....	.....	0	0	clear	John Duthie.
Cape Town, C. G. H. Obs'y	29.95	760.7	29.99	761.7	76.4	24.7	49	sse.	12	5.4	.....	0	0	.....	.....	0	0	.....	The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	OBSERVERS.
Chinese (*Sub-series*).																			
Hankow	29.80	756.9	30.08	764.0	65.7	18.7	94	sse.			1		8			0.25	6.3		N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.91	759.7	29.93	760.3	60.1	15.6	89	se.	16.8	7.5			10 n			0.047	1.2	raining	M. Marc Dechevrens, S.J.
Danish.																			
Copenhagen	29.84	757.9	29.89	759.1	47.3	8.5	71	nw.	31.	14			9						Oversergent Fischer.
Fanöe	30.01	762.2	30.03	762.7	46.9	8.3	82	wsw.			4		7						Overloerer Lauridsen.
Godthaab, Greenland	29.67	753.5	29.71	754.6	27.5	— 2.5	83	nw.			2		10						S. Kleinschmidt.
Stykkisholm, Iceland	29.59	751.6	29.63	752.7	31.6	— 0.2	78	e.			4		3						A. O. Thorlacius.
Thorshavn	29.46	748.2	29.49	749.1	39.6	4.2	62	ne.	9.	4			10						Overloerer Bergh.
Vestervig	29.86	758.5	29.95	760.8	45.1	7.3	74	w.			2		7						Loerer Oesterbol.
French.																			
Agen, Normal School	29.63	752.5	30.28	769.0	60.1	15.6	87	calm			0		kn		n.	0	0		M. Labroue, Director.
Alençon, Normal School	29.69	754.2	30.24	768.2	59.7	15.4	76	s.			2			s.	n.	0	0		M. Nicot, Director.
Arras, Engineer School	29.90	759.5	30.16	766.0	57.4	14.1	63	wsw.			2				sw.	0.024	0.6		Capt. Bertrand, Dir.
Avginon, Normal School	30.02	762.6	30.10	764.6	60.8	16	53	nw.			4		8		nw.	0	0	cloudy	M. Giraud, Director.
Bar-sur-Seine	29.69	754.2	30.25	768 4	57.0	13.9	55	s.			1		2			0	0	slightly cl'dy	M. Saillard, Director.
Beauvais, Normal School	29.95	760.7	30.21	767.4	60.4	15.8	61	ssw.			1		8			0.008	0.2	very cloudy	M. Frère Eugène Marl.
Besançon, Normal School	29.27	743 5	30.17	766.3	56.1	13.4	60	e.			1	5 ck	0	nw.		0.12	3.	cloudy	M. Gobin, Director.
Bordeaux, Observatory	30.00	762.0	30.26	768.7	61.0	16.1	57	sw.			1		2		ese.	0.059	1.5	slightly cld'y	M. Rayet, Director.
Bourges, Normal School	29.71	754.6	30.31	769.8	59.7	15.4	38	wnw.			1		1		wnw.	0.008	0.2	clear	M. Postel, Director.
Brest, Naval Observatory	29.90	759.4	30.14	765.6	58.3	14.6	74	sw.			3		9		sw.	0	0		M. de Kermaree, Dir.
Caen, Normal School	30.10	764.4	30.17	766.3	61.5	16.4	63	sw.			0.5		10			0	0	covered	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.89	759.3	30.22	767.5	61.5	16.4	42	s.			1		5		sw.	0.130	3.3	cloudy	M. Jadot, Director.
Charleville, Normal School	29.70	754.3	30.22	767.5	56.8	13.8	76	w.			1		5	s.	n.	0	0	¼ covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.89	733.7	30.24	768.0	60.4	15.8	35	n.			1		2			0.055	1.4	¼ covered	M. Allnard, Director.
Cluny, Normal School	29.41	746.9	30.24	768.2	56.5	13.6	50	ne.			2			nnw.		0.020	0.5		M. de Villemontée, Dir.
Commercy, Normal School	29.39	746.4	30.26	768.6	56.3	13.5	52	ene.			1		5 cn	ene.	ene.	0.12	3.	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.50	698.6	30.00	761.9	61.2	16.2	39	n.			1	1 c	0	nw.		0	0		M. Jeanginard, Director.
Gréasque, du. Rhone	28.93	734.9	30.03	762.8	67.5	19.7	33	nw.			2		2		nw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.38	746.3	30.15	765.8	56.5	13.6	60	n.			4		kn			0.181	4.6		M. Ablard, Director.
Guéret, Normal School	28.67	728.3	30.25	768.4	57.2	14	57	w.			1		k		w.	0	0		M. Rivoire, Director.
Lamballe, Normal School	29.90	759.4	30.17	766.3	60.1	15.6	62	nnw.			1		5		nnw.	0	0	cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.72	755.0	30.29	769.3	63.7	17.6	47	ene.			1	0	0			0.055	1.4	clear	M. Chauvin, Director.
Lorient, Naval Observatory	30.13	765.3	30.23	767.9	58.1	14.5	82	sw.			3		10		s.	0	0	covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.17	741.0	30.24	768.0	56.3	13.5	54	n.			2	c	2 n	nw.	n.	0.059	1.5	slightly cl'dy	M. André, Director.
Mans, Normal School	29.95	760.7	30.26	768.6	58.5	14.7	65	wsw.			3		5		w.	0	0	cloudy	M. Piboen, Director.
Marseille, Observatory	29.77	756.2	30.04	763.0	66.0	18.9	39	nw.			3		8		nw.	0	0		M. Stephan, Director.
Montlouis l'Instituteur	24.96	633.9	29.80	756.9	50.0	10.0	22	ne.	9.4	4.2			0						M. Cave, for Dr. Fines.
Montpellier, Normal School	29.97	761.3	30.10	764.6	72.0	22.2	36	n.			3		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.45	748.1	30.24	768.1	58.3	14.6	59	wnw.			1	1 ck	0			0.476	12.1	clear	M. Hasse, Director
Nantes, Observatory	30.11	764.7	30.27	768.8	64.2	17.9	57	sw.			1–2	ck	5 k		w.	0	0		M. Larocque, Director.
Perpignan, Observatory	30.06	763.6	30.17	766.3	66.0	18.9	30	n.	24.2	10.8			10	nnw.		0.016	0.4		Dr. Fines, Director.
Pic-du-Midi, Summit	21.39	543.4			34.2	1.2		ne.			1		1		ne.	0	0	clear	Gen'l de Nansouty, Dir.
Privas, Normal School	29.06	738.0	30.11	764.9	59.4	15.2	60	n.			4		5			0	0	fair	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.32	643.0			35.6	2.0	84	n.			2		2			0.256	6.5	¼ covered	M. Allnard, Director.
Rochefort, Naval Obs'y	30.25	768.3	30.28	769 1	64.8	18.2	100	calm			0		8		s.	0	0	¾ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	30.06	763.4	30.26	768.7	60.6	15.9	62	w.			2		5		w.	0	0	cloudy	M. Mouilliot, Director.
Rodez, Normal School	28.12	714.3	30.29	769.3	53.1	11.7	76	nw.			1		1		se.	0.020	0.5	clear	M. Serger, Director.
Rouen, Normal School	30.15	765.7	30.19	766.9	62.6	17	67	sw.			1		5	w.		0.020	0.5	cloudy	M. Brotier.
Saint Maur, Observatory	30.07	643.0	30.24	768.0	57.0	13.9	61	sw.			1		10		nnw.	0.008	0.2		M. Renou, Director.
Toulouse, Observatory	29.58	751.2	30.30	769.7	59.5	15.3	64	nnw.			1		2	n.		0	0	slightly cl'dy	M. Baillaud, Director.
Versailles, Observatory	29.73	755.2	30.22	767.7	58.3	14.6	60	w.			2					0	0		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.95	760.7	30.24	768.1	59.0	15.0	61	sw.			1		9		wsw.	0.039	1.0		M. Marié Davy, Director
German.																			
Bamberg	29.34	745.2	30.20	767.0	55.4	13.0	40	nw.			2	0	4 ks			0	0		Prof. Dr. Hoh.
Berlin	29.91	759.8	30.09	764.3	53.1	11.7	41	sw.			4		8			0.087	2.2		Prof. Dr. Arndt.
Breslau	29.58	751.4	30.11	764.9	50.7	10.4	56	wnw.			4		4			0	0		Royal University Obs'y.
Carlsruhe	29.80	757.0	30.25	768.3	55.4	13.0	47	sw.			2		9	sw.		0	0		Albert Senz.
Cassel	29.40	746.8	30.11	764.9	59.7	15.4	35	s.			4		5	sw.		0	0		Dr. H. Möhl.
Frankfort on the Main	29.85	758.1	30.22	767.5	56.5	13.6	43	sw.			1		3			0	0		Physical Society.
Friedrichshafen	28.79	731.2	30.23	767.8	56.1	13.4	67	ssw.			2		6	ne.		0	0		Wilhelm, Chief Tel.
Hamburg	30.02	762.5	30.11	764.9	51.3	10.7	61	wnw.			4		3	wsw.		0.024	0.6		E. Preller.
Kiel	30.02	762.6	30.04	763.0	50.0	10	52	wnw.			6		2			0.043	1.1		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.72	755.0	30.14	765.6	54.1	12.3	42	wsw.			4		9			0.087	2.2		H. Leppig, Asst.
Magdeburg	29.95	760.6	30.14	765.5	52.9	11.6	48	wnw.			5		10 ks		w.	0	0		Dr. Assmann.
Memel	29.88	758.9	29.93	760.1	46.6	8.1	92	se.			4		10						Issermann.
Munich	28.39	721.0	30.26	768.7	52.7	11.5	80	nw.			2		8	w.		0.071	1.8		Central Station.
Neufahrwasser	29.91	759.7	29.93	760.1	50.2	10.1	67	sw.			4		1c	sw.		0.035	0.9	sprinkling	A. Lothes.
Neustadt, Palatinate	29.72	755.0	30.26	768.5	56.1	13.4	62	calm			0		5	w.		0	0		Dicknether.
Stuttgart	29.26	743.2	30.15	765.9	56.3	13.5	43	n.			1		3	nw.		0	0		Prof. Dr. Schoder.
Wustrow	29.99	761.7	30.02	762.4	46.6	8.1	81	wnw.			5	0	5 s			0	0		Profs. Brandes & Reimer.
Greek.																			
Athens	29.44	747.7	29.82	757.4	68.2	20.1		sw.			2.0	5				0	0		Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.71	754.7	29.76	756.0	83.4	28.6	77	wsw.	30.0	13.4			7			0	0	gloomy	
Deesa	29.21	742.0	29.66	753.5	100.6	38.1	19	wsw.	7.8	3.5			0			0	0	blue sky	
Bombay	29.72	754.8	29.76	755.8	84.4	29.1	65	nw.	20.0	8.9			0			0	0	blue sky	
Poona, Yarrowda	27.86	707.7	29.64	752.8	99.8	37.7	9	nw.	30.0	13.4			0			0	0	d. clouds	
Belgaum	27.23	691.5	29.71	754.6	85.4	29.7	53	wsw.	10.0	4.5			1	w.		0	0		
Lahore	28.83	732.3	29.54	750.3	100.2	37.9	13	e.	3.9	1.7			0			0	0	misty	
Roorkee	28.77	730.8	29.64	752.7	97.9	36.6	24	se.	2.7	1.2			4			0	0	d. clouds	
Agra	29.09	738.8	29.62	752.3	105.1	40.6	11	w.	7.2	3.2			4			0	0		
Nagpur	28.63	727.2	29.62	752.4	103.7	39.8	19	e.	3.3	1.5			0			0	0		
Jubbulpore	28.36	720.3	29.65	753.2	100.7	38.2	10	n.	2.7	1.2			0			0	0	blue sky	
Lucknow	29.32	744.8	29.68	753.9	102.4	39.1	26	ene.	2.3	1.0			0			0	0	blue sky	
Allahabad	29.37	746.1	29.67	753.7	98.7	37.1	25	ne.	1.9	0.8			0			0	0	blue sky	
Patna	29.54	750.3	29.72	754.8	94.3	34.6	40	ne.	5.2	2.3			0			0	0	blue sky	
Hazaribagh	27.71	703.8	29.66	753.5	89.8	32.1	34	sw.	7.8	3.5			8			0	0		
Cuttack	29.66	753.4	29.74	755 4	90.0	32.2	53	s.	2.7	1.2			1			0	0	blue sky	
Calcutta, Allpore	29.74	755.4	29.76	755.9	88.0	31.1	58	ssw.	7.0	3.1			0			0	0	blue sky	
Dhubri	29.64	752.8	29.76	755.8	87.9	31.1	49	calm	2.9	1.3			1			0	0	d. clouds	
Chittagong	29.80	756.8	29.89	759.1	82.5	28.1	75	w.	2.5	1.1			2			0	0	blue sky	
Sibsagur	29.44	747.9	29.78	756.3	82.5	28.1	75	sw.	1.2	0.5			0			0	0	blue sky	
Jeypore	28.24	717.3	29.62	752.3	102.0	38.9	8	wsw.	3.9	1.7			0			0	0	blue sky	
Zanzibar, Africa	29.88	758.9			79.9	26.6	89	sse.					9		se.	0.05	1.3	raining	
Bellary	28.22	716.8			100.5	38.1	19	sw.	3.9	1.7		5 ck	2	sw.		0	0	d. clouds	
Trichinopoly	29.47	748.5			95.1	35.1	39	e.		0.4			10			0	0	overcast	
Italian.																			
Udine	29.58	751.4	29.99	761.8	66.9	19.4	60	ne.	3.1	1.4			1			0.421	10.7		Prof. Giovanni Clodig.
Milan	29.50	749.3	29.98	761.4	63.9	17.7	33	sw.	3.1	1.4			1	se.		0	0		Prof. Schiaparelli.
Padua	29.87	758.6	29.98	761.4	65.5	18.6	33	ne.	5.6	2.5			4	ne.		0.626	15.9		Prof. Dott. Lorenzoni.
Moncalieri	29.10	739.0	29.99	761.8	65.1	18.4	20	s.	2.5	1.1			1	s.		0	0		Prof. P. F. Denza.
Genoa	29.80	757.0	29.99	761.8	66.2	19.0	23	nw.	7.4	3.3			0			0	0		Prof. G. M. Garibaldi.
Mondovi	28.14	714.7	30.05	763.3	59.4	15.2	25	w.			4		0			0	0		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
ITALIAN.—Continued.																			
Pesaro	29.93	760.2	29.98	761.4	57.6	14.2	76	n.	15.0	6.7			6	sw.		0.224	5.7		Prof. Luigi Guidi.
Florence	29.71	754.5	29.96	760.9	64.4	18.0	32	ne.			6		1			0	0		Prof. Costantino Pitter.
Leghorn	29.81	757.2	29.90	759.4	67.6	19.8	71	ne.	4.9	2.2			4	ne.		0.039	1.0		Prof. P. Monte.
Rome	29.63	752.7	29.82	757.3	64.2	17.9	45	nne	9.8	4.4			8			0.035	0.9		Prof. P. S. Ferrari.
Lecce	29.54	750.3	29.79	756.7	56.5	13.6	75	nne.	11.2	5.0			10	ne.		0.067	1.7		Prof. C. de Giorgi.
Cosenza	28.90	734.0	29.78	756.5	52.9	11.6	71	nne.	2.5	1.1			10	ne.		1.016	25.8		Prof. D. Conti.
Cagliari	29.61	752.1	29.80	757.0	64.9	18.3	41	nw.			4		5	n.		0	0		Prof. A. Pacinotti.
Palermo	29.46	748.2	29.71	754.5	58.6	14.8	67	wsw.	13.0	5.8			9	w.		0.252	6.4		Prof. G. Ciaccialore.
Syracuse	29.68	753.9	29.72	755.0	63.1	17.3	52	w.	16.1	7.2			7	w.		0	0		Prof. Vincenzo Guiliano.
Sub-series.																			
Naples, S. R	29.23	742.5	29.74	755.5	62.6	17.0	61	e.	4.9	2.2			7	e.		0.224	5.7		Prof. T. Brioschi.
Stelvio	22.24	564.8			29.7	— 1.3	73	ne.			2		1			0	0	misty	Prof. P. F. Denza.
Valdobbia	22.22	564.5			34.7	1.5	52	e.			2		0			0	0	clear	Prof. P. F. Denza.
JAPANESE.																			
Aomori	30.16	766.0	30.19	766.8	46.2	7.9	85	n.	7.8	3.5			10 s			0	0	overcast	K. Ogawa.
Hakodate	30.18	766.6	30.20	767.1	41.0	5.0	85	calm	0	0			1			0	0	clear	
Hiroshima, I. M. Obs'y	30.12	765.0	30.13	765.3	56.1	13.4	77	ne.	3.6	1.6			0			0	0	clear	K. Sasaki.
Kanazawa	30.09	764.3	30.20	767.1	51.8	11.0	79	e.	6.9	3.1		0	0			0	0	clear	S. Endo.
Kioto	30.00	762.0	30.17	766.3	53.0	11.7	75	s.	2.4	1.1		0	4 s			0	0	fair	M. Tojima.
Kochi	30.19	766.8	30.21	767.3	60.5	15.8	84	e.	6.8	3.0		0	0			0	0	clear	
Nagasaki, I. M. Obs'y	29.97	761.2	30.17	766.3	57.5	14.2	80	sw.	0.7	0.3		0	0			0	0	clear	S. Takehayashi.
Niigata	30.16	766.0	30.20	767.1	48.0	8.9	97	calm	0	0		0	0			0	0	clear	
Nobira	30.20	767.1	30.22	767.6	46.9	8.3	87	wsw.	7.3	3.3		0	3 s			0	0	fair	H. Midzushina.
Sapporo					42.0	5.6	84	calm	0	0			0			0	0	clear	
Tokei Obs'y, Yeddo	30.15	765.8	30.22	767.6	53.1	11.7	98	ene.	4.0	1.8			10 s			0	0	cloudy	The Staff.
Wakayama	30.13	765.3	30.18	766.6	55.6	13.1	79	ene.	2.5	1.1		0	0			0	0	clear	Y. Kuwamura.
MAURITIUS.																			
Mauritius Observatory	29.77	756.1	29.96	761.0	79.0	26.1	84	ne.	3.5	1.6			8 ks;n		w;s.	0	0	cloudy	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.90?	603.2?	29.97	761.2	59.7	15.4	66	calm	0	0		0	2 k		w.	0	0	dense fog	Vicente Fernandez.
Leon	24.45	621.0	30.14	765.5	59.4	15.2	71	calm	0	0		1 cs	0			0	0	clear	Prof. M. Leal.
Mazatlan	29.75	755.6	30.01	762.2	68.5	20.3	58	e.				4 cs	0	sw.		0	0	fair	F. Quijano, U. E.
Mexico, Central Obs'y	23.31	589.4	30.30	769.6	55.8	13.2	71	calm			0	1 c	1 ks			0	0	foggy	The Staff.
Morelia	24.31	617.5	30.46	773.6	58.6	14.8	74	s.			2	1	1	se.	se.	0	0	clear	M. Tena, M. D.
Pabellon, Aguascallentes	24.01	609.9	30.06	763.5	58.5	14.7	74	calm			0	2 c	0	w.		0	0	clear	M. V. de Leon, M. E.
Puebla, Catholic Institute	23.13	595.2	30.24	768.1	50.9	10.5	80	nw.	0.2	0.1		0	0			0	0	clear	Prof. P. Spina.
San Luis Potosi	24.19	614.4	30.14	765.6	62.4	16.9	47	wsw.			1	0	0			0	0	clear	G. Barroeta, M. D.
Zacatecas	22.63	574.8	30.28	769.2	55.4	13.0	60	wsw.	8.8	3.9		4 cs	0	sw.		0	0	½ clouded	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.15	765.7	30.15	765.7	56.5	13.6		sw.			4					0	0		
Grontingen	30.03	762.8	30.09	764.2	52.9	11.6		sw.			4					0.004	0.1		
Helder	30.05	763.2	30.05	763.2	50.4	10.2		ssw.			5					0	0		
Hellevoetsluis	30.11	764.7	30.11	764.7	56.3	13.5	65	sw.			3					0	0		
Utrecht	30.08	764.0	30.13	765.2	57.2	14.0	63	ssw.			4		8			0	0	very cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.73	755.2	29.80	756.8	40.6	4.8	90	sse.	16	7			10			1.280	32.5	raining	
Brono	29.67	753.5	29.71	754.5	41.4	5.2	51	s.	9	4			9			0	0		
Christiania	29.67	753.6	29.82	757.4	39.4	4.1	76	wsw.	4	2			8			0.213	5.4		
Gjoesvar	29.79	756.7	29.82	757.3	43.7	6.5		calm			0		6						
Lodingen	29.71	754.7	29.76	755.9	34.3	1.3	48	ne.			4		0						
PORTUGUESE.																			
Angra, Azores					60.4	15.8	83	nw.	6.3	2.8			1			0.457	11.6		Dr. J. A. Sampaio.
Campo Major	29.16	740.7	30.13	765.2	77.9	25.5	28	ese.	3.8	1.7			1			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderita	30.13	765.2	30.21	767.4	65.7	18.7	65	sw.					0			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.85	758.2	30.21	767.2	70.5	21.4	43	nne.	3.1	1.4			2	nnw.		0	0		The Staff.
Ponta Delgada, Azores	30.09	764.3	30.16	766.1	66.6	19.2	63	sw.	2.5	1.1			3			0.366	9.3		
Saint Paul de Loando	29.70	754.3	29.90	759.4	81.0	27.2	87	wsw.	1.3	0.6			4	e.		0.378	9.6		
Serra da Estrella	25.45	647.9	30.15	765.8	59.0	15.0	30	ese.	15.4	6.9			3			0	0		
RUSSIAN.																			
Akmolinski	28.94	735.0	30.06	763.4	34.0	1.1	79	sw.	9	4		0	0			0	0		Major K. Lasarew.
Archangel	30.11	764.7	30.13	765.2	24.1	— 4.4	61	s.	2	1			10			0	0	light clouds	Capt. Sseliwerstow.
Astrakhan	29.81	757.1	29.72	755.0	65.1	18.4	49	s.	13	6		c	10 s			0	0	light clouds	Capt. Wisganow.
Barnaul	29.58	751.3	30.08	764.1	48.7	9.3	47	calm	0	0			1			0	0		Meteorological Obs'y.
Dorpat	29.84	757.9	30.09	764.2	46.4	8.0	39	se.	7	3		8 cs	0			0.008	0.2		Observatory.
Ekaterinburg	28.62	727.0	29.59	751.6	38.8	3.8	72	ssw.	7	3			10 n			0.110	2.8	raining	Meteorological Obs'y.
Kasan	29.28	743.8	29.56	750.8	39.4	4.1	72	nnw.	16	7			10			0.004	0.1		Observatory.
Kertch	29.68	753.8	29.70	754.3	62.1	16.7	63	no.	45	20		2 c	0			0	0		Lagorio & Sastyrex.
Kieff	29.36	745.8	30.00	762.1	48.0	8.9	50	no.	9	4		ck;cs	3 ks			0.173	4.4		Observatory.
Lugan	29.63	752.5	29.83	757.6	61.3	16.3	34	nnw.	22	10			8			0	0		Meteorological Obs'y
Moscow	29.45	748.1	29.94	760.5	39.2	4.0	48	n.	7.8	3.5		0	7 ks			0	0		Meteorological Obs'y.
Nikolaiev	29.84	757.9	29.91	759.7	68.0	20.0	40	ne.	9	4		0	0			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor	29.71	754.6	29.80	756.8	33.8	1.0	92	calm	0	0			10			0.205	5.2		Lieut. Iwanow.
Pekin, China	29.78	756.5	29.93	760.1	60.3	15.7	79	calm	0	0		0	5 ks			0.232	5.9	thund'r storm	Physical Observatory
St. Petersburg	30.10	764.4	30.11	764.8	37.9	3.1	46	wnw.	4	2		0	1 k			0	0		Central Physical Obs'y
Ssemipalatinsk	29.41	747.1	30.07	763 8	55.4	13.0	43	calm	0	0		0	8 s			0	0		Major Lasaren.
Tashkend, Laboratory	28.57	725.7	30.15	765.7	57.0	13.9	58	calm	0	0			10			0	0	light clouds	Teich, A. M.
Tiflis	28.43	722.1	29.76	756.0	81.7	27.6	26	calm	0	0		0	0			0	0		Physical Observatory
Vladivostok	30.08	764.1	30.15	765.8	34.2	1.2	100	se.	4	2			10 n			0	0		
Warsaw	29.56	750.7	29.97	761.3	58.6	14.8	52	wsw.	13	6			10 ks						Astronomical Obs'y
Wilna	29.00	751.9	30.02	762.6	52.9	11.6	44	s.	4	2			10			0.004	0.1	light clouds	Berg, Assistant.
Yeniseisk	29.65	753.1	29.94	760.5	41.9	5.5	68	w.	4	2			9			0	0		M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	30.04	763.1	30.15	765.8	64.0	17.8	56	sw.	4.3	1.9		1 c	0			0	0	clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.15	765.9	30.21	767.4	76.3	24.6	39	se.	3.6	1.6		0	0			0	0	clear	Prof. Manuel de Naveran:
Burgos, Met. Obs'y	27.29	693.1	30.20	767.1	66.2	19.0	34	n.	2.2	1.0			0			0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	27.97	710.5	30.12	765.1	76.5	24.7	31	nw.	4.9	2.2		1	0	n.		0	0	light clouds	The Staff.
Murcia, Met. Obs'y	30.00	761.9	30.15	765.7	73.0	22.8	52	e.	3.6	1.6		4	3	sw.		0	0	cloudy	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.25	743.0	30.13	765.4	60.7	19.3	60	calm	0	0			4			0.004	0.1	cloudy	R. Gil Vallanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I	30.02	762.5	30.09	764.2	75.3	24.1	73	ese.	4.0	1.8		1 c;ck	0	w.		0	0	fair	Benito Vines, S. J.
Manilla, Philippine Islands	29.80	756.9	29.86	758.4	82.4	28.0	65	e.	5.0	2.2		0	1 ks			0	0	clear	F. Faura, S. J.
San Fernando, Naval Obs'y	30.06	763.6	30.16	766.0	80.8	27.1	31	ese.	2.1	0.9		0	0			0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	29.99	761.8	30.08	764.1	77.7	25.4	89	calm	0	0		2 c	3 k	se.	se.	0	0		Manuel Maeu.
Tuguegarao, Philippine Id's	29.79	756.7	29.92	760.0	76.0	24.4	83	nnw.	5.6	2.5		0	4 ks		sw.	0	0	fair	José L. Yrastorza.
SWEDISH																			
Haparanda	30.02	762.5	30.06	763.5	33.1	0.6	64	s.			2		10			0	0		
Umea	29.97	761.1	30.02	762.4	36.0	2.2	75	sw.			2		9			0.047	1.2		
Hernosand	29.91	759.8	29.97	761.1	34.7	1.5	72	se.			2		10			0	0		
Stockholm	29.69	754.2	29.87	758.7	37.2	2.9	71	e.			4		10					snowing	
Wisby	29.72	755.0	29.78	756.5	40.3	4.6	94	sse.			6		10			0	0		
Sub-series.																			
Upsala	29.78	756.3	29.86	758.5	37.6	3.1	66	ese.	11.9	5.3			10			0.063	1.6		S. G. Fineman.
SWISS.																			
Geneva	28.78	731.0	30.21	767.3	54.0	12.2	57	nne.			2					0.028	0.7		The Observatory

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Turkish.																			
Constantinople	.....	.....	29.72	754.9	68.9	20.5	40	wsw	7.8	3.5	.....	.....	7	.....	s.	0	0	.....	The Observatory.
Valona	.....	.....	29.85	758.1	61.2	16.2	.....	w.	.....	.....	1	.....	10	.....	.....	.....	.....	rainy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	29.98	761.5	73.0	22.8	72	w.	.....	.....	2	0	0	.....	.....	0	0	.....	Prof. C. V. A. van Dyck.
United States. ◆																			
Albany, New York	29.80	756.9	29.88	758.9	49	9.4	63	n.	2	0.9	.....	.....	hz.	.....	.....	0	0	dense haze.	J. O. Barnes.
Alpena, Michigan	28.74	730.0	29.43	747.5	40	4.4	89	se.	14	6.3	.....	.....	10 n	.....	.....	0.36	9.1	light rain	Jas. J. Fitzgerald.
Atlanta, Georgia	28.68	728.5	29.87	758.7	61.0	16.1	93	se.	13	5.8	.....	.....	10 n	.....	calm	0.84	21.3	light rain	H. Hall.
Atlantic City, New Jersey	29.89	759.2	29.90	759.4	51.3	10.7	83	s.	11	4.9	.....	.....	10 s	.....	.....	0	0	cloudy	Jas. M. Watson.
Augusta, Georgia	29.77	756.1	29.96	761.0	61	16.1	90	se.	4	1.8	.....	.....	10 n	.....	se.	0.30	7.6	light rain	John Healy.
Baltimore, Maryland	29.80	756.9	29.85	758.2	58	14.4	65	calm	0	0	.....	.....	10s;fg	.....	.....	0	0	cloudy	Robert Seyboth.
Barnegat, New Jersey	29.88	758.9	29.90	759.4	52.0	11.1	74	s.	15	6.7	.....	.....	10 s	.....	.....	0	0	cloudy	Chas. F. Merritt.
Bismarck, Dakota	28.02	711.7	29.89	759.2	32	0.0	81	n.	6	2.7	.....	1 c	0	W.	.....	0.04	1.0	clear	Cyrus Cramer.
Boise City, Idaho	26.82	681.2	29.66	753.4	46	7.8	86	w.	6	2.7	.....	0	5 s	.....	w.	0	0	fair	B. E. Light.
Boston, Massachusetts	29.85	758.2	30.01	762.2	43.0	6.1	78	ne.	8	3.6	.....	0	hz.	.....	.....	0	0	clear	O. B. Cole.
Brownsville, Texas	29.79	756.7	29.84	757.9	76	24.4	90	s.	6	2.7	.....	.....	10 s	.....	s.	0	0	cloudy	J. C. Galloway.
Buffalo, New York	28.86	733.0	29.63	752.6	55.2	12.9	39	sw.	6	2.7	.....	.....	10 n	.....	sw.	inap.	inap.	light rain	Wm. Flinn.
Burlington, Vermont	29.56	750.8	29.86	758.4	44.5	6.9	82	calm	0	0	.....	0	0	.....	.....	inap.	inap.	clear	G. C. Schaeffer.
Cairo, Illinois	29.27	743.4	29.68	753.9	62.6	17.0	80	w.	16	7.2	.....	1 k	0	w.	.....	0.52	13.2	clear	W. H. Ray.
Campo, California	27.50	698.5	30.08	764.0	30.8	— 0.7	81	s.	3	1.3	.....	0	0	.....	.....	0	0	clear	W. H. Clendenon.
Camp Thomas, Arizona	27.31	693.7	30.04	763.0	34	1.1	65	e.	.....	.....	1	0	0	.....	.....	0	0	clear	J. T. Fitzgerald.
Cape Henry, Virginia	29.95	760.7	29.97	761.2	63	17.2	73	s.	16	7.2	.....	.....	10 s	.....	sw.	0	0	cloudy	J. E. Lanouette.
Cape May, New Jersey	29.88	758.9	29.91	759.7	55	12.8	80	s.	18	8.0	.....	.....	10 s	.....	s.	0	0	cloudy	W. Bolten.
Cedar Keys, Florida	30.03	762.7	30.05	763.3	75	23.9	85	s.	19	8.5	.....	.....	10 s	.....	sw.	0	0	cloudy	F. W. Mixer.
Champaign, Illinois	28.61	726.7	29.45	748.0	53.5	11.9	82	sw.	26	11.6	.....	.....	10 ks	.....	sw.	0.26	6.6	cloudy	L. A. Welsh.
Charleston, S. Carolina	29.95	760.7	30.01	762.2	67	19.4	84	sw.	7	3.1	.....	.....	10 s	.....	sw.	0	0	threatening	J. H. Smith.
Charlotte, N. Carolina	29.02	737.1	29.88	758.9	58.0	14.4	93	s.	14	6.3	.....	.....	10 s	.....	s.	0.05	1.3	cloudy	D. O. Donoghue.
Chattanooga, Tennessee	28.99	736.3	29.82	757.4	62.0	16.7	87	sw.	12	5.4	.....	.....	10 ks	.....	sw.	0.24	6.1	cloudy	B. L. Goulding.
Cheyenne, Wyoming	23.90	607.0	29.90	759.4	33.5	0.8	56	w.	10	4.5	.....	1 cs	0	.....	.....	0	0	clear	E. McGovern.
Chicago, Illinois	28.59	726.2	29.32	744.7	54.0	12.2	80	sw.	14	6.3	.....	.....	10 k	.....	s.	0.56	14.2	cloudy	J. Mitchell.
Chincoteague, Virginia	29.93	760.2	29.95	760.7	54	12.2	86	s.	14	6.3	.....	.....	hz.	.....	.....	0	0	dense haze	V. P. Temple.
Cincinnati, Ohio	28.91	734.3	29.58	751.3	60.6	15.9	88	se.	7	3.1	.....	7 k	0	s.	.....	0.33	8.4	fair	R. B. Watkins.
Cleveland, Ohio	28.80	731.5	29.56	750.8	60	15.6	56	s.	21	9.4	.....	.....	10 n	.....	.....	0.03	0.8	light rain	J. B. Newlin.
Coleman City, Texas	28.10	713.7	29.92	760.0	58	14.4	20	w.	12	5.4	.....	6 c	0	.....	.....	0	0	fair	L. Dorman.
Columbus, Ohio	28.71	729.2	29.58	751.3	56	13.3	93	s.	6	2.7	.....	.....	10 n	.....	s.	0.23	5.8	light rain	D. Cuthbertson.
Concho, Texas	28.00	711.2	29.94	760.5	49	9.4	38	w.	8	3.6	.....	4 c	0	.....	.....	0	0	fair	W. W. McConihe.
Davenport, Iowa	28.63	727.2	29.30	744.2	52	11.1	86	sw.	16	7.2	.....	.....	10 n	.....	sw.	1.00	25.4	light rain	R. R. Martin.
Dayton, Washington T'y	27.96	710.2	29.71	754.6	38.3	3.5	95	sw.	6	2.7	.....	.....	10 n	.....	sw.	0.91	23.1	heavy rain	H. Clifford.
Deadwood, Dakota	25.16	639.1	29.85	758.2	31	— 0.6	81	calm	0	0	.....	0	0	.....	.....	0.49	12.4	clear	G. W. Scott.
Decatur, Texas	.....	.....	.....	.....	55	12.8	69	nw.	16	7.2	.....	0	0	.....	.....	0	0	clear	D. J. Carr.
Delaware Breakwater, Del.	29.90	759.4	29.92	760.0	55	12.8	69	sw.	19	8.5	.....	.....	10s;sk	.....	w.	0	0	cloudy	A. Schneider.
Denison, Texas	29.07	738.4	29.87	758.7	53.4	11.9	66	nw.	2	0.9	.....	0	0	.....	.....	inap.	inap.	clear	J. McGlone.
Denver, Colorado	24.61	625.1	29.88	758.9	39.5	4.2	57	s.	6	2.7	.....	0	0	.....	.....	0	0	clear	F. M. Neal.
Des Moines, Iowa	28.53	724.6	29.46	748.3	50	10.0	86	nw.	14	6.3	.....	.....	10 n	.....	.....	0.44	11.2	light rain	F. W. Conrad.
Detroit, Michigan	28.72	729.5	29.44	747.8	56.9	13.8	69	s.	13	5.8	.....	2 c	4 k	w.	s.	0.06	1.5	fair	C. F. R. Wappenhans.
Dodge City, Kansas	27.30	693.4	29.94	760.5	35	1.7	72	nw.	12	5.4	.....	0	0	.....	.....	0	0	clear	E. A. Thomas.
Dubuque, Iowa	28.52	724.4	29.25	742.9	49.5	9.7	86	nw.	8	3.6	.....	.....	10 n	.....	calm	0.54	13.7	light rain	J. Harvey Smith.
Duluth, Minnesota	28.95	735.3	29.67	753.6	41	5.0	82	ne.	10	4.5	.....	.....	10 s	.....	ne.	0.19	4.8	cloudy	N. B. Conger.
Eagle Pass, Texas	29.09	738.9	29.90	759.4	59.0	15.0	75	nw.	2	0.9	.....	0	0	.....	.....	0	0	clear	F. Belford.
Eagle Rock, Idaho	25.16	639.1	29.88	758.9	38	3.3	76	sw.	16	7.2	.....	.....	10 s	.....	.....	0	0	cloudy	J. M. Clifford.
Eastport, Maine	30.01	762.2	30.08	764.0	38.5	3.6	78	sw.	1	0.4	.....	4 c;cs	0	.....	.....	0	0	fair	J. H. Melton.
El Paso, Texas	26.30	668.0	30.04	763.0	45	7.2	28	w.	6	2.7	.....	0	0	.....	.....	0	0	clear	J. F. Marshall.
Erie, Pennsylvania	28.82	732.0	29.57	751.1	57	13.9	64	se.	12	5.4	.....	.....	10 n	.....	.....	0.02	0.5	light rain	R. H. Paxton.
Escanaba, Michigan	28.67	728.2	29.36	745.7	41	5.0	100	n.	22	9.8	.....	.....	10 n	.....	n.	0.13	3.3	light rain	C. Dill.
Florence, Arizona	28.56	725.4	30.06	763.5	40.1	4.5	59	sw.	2	0.9	.....	0	0	.....	.....	0	0	clear	R. R. Herman.
Fort Apache, Arizona	25.09	637.3	30.01	762.2	26	— 3.3	70	calm	0	0	.....	0	0	.....	.....	0	0	clear	W. C. Barnes.
Fort Assinnaboine, Montana	26.76	679.7	29.66	753.4	40	4.4	67	sw.	10	4.5	.....	0	0	.....	.....	0	0	clear	B. O. Lenoir.
Fort Bennett, Dakota	28.26	717.8	29.90	759.4	31	— 0.6	71	n.	3	1.3	.....	0	0	.....	.....	0	0	clear	T. Gibson.
Fort Benton, Montana	26.80	680.7	29.66	753.4	46	7.8	50	sw.	14	6.3	.....	0	0	.....	.....	0	0	clear	S. Wheaton.
Fort Buford, Dakota	27.81	706.4	29.88	758.9	33	0.6	71	e.	5	2.2	.....	0	0	.....	.....	0	0	clear	A. H. Bell.
Fort Custer, Montana	26.56	674.6	29.74	755.4	35	1.7	89	s.	4	1.8	.....	0	6 s	.....	calm	inap.	inap.	fair	V. Verge.
Fort Davis, Texas	25.18	639.6	29.97	761.2	45	7.2	44	s.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. Williams.
Fort Elliott, Texas	27.11	688.6	29.89	759.2	41	5.0	21	ne.	8	3.6	.....	0	0	.....	.....	0	0	clear	W. J. Cundall.
Fort Gibson, Indian T'y	29.30	744.2	29.88	758.9	52.0	11.1	80	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. B. Campbell.
Fort Grant, Arizona	25.31	642.9	30.04	763.0	50	10.0	56	e.	4	1.8	.....	0	0	.....	.....	0	0	clear	T. J. Macgowan.
Fort Keogh, Montana	27.22	691.4	29.76	755.9	37	2.8	72	se.	3	1.3	.....	1 c	0	.....	.....	0	0	clear	W. B. Stockman.
Fort Macon, North Carolina	30.01	762.2	30.02	762.5	64	17.8	93	s.	16	7.2	.....	10 cs	hz.	sw.	calm	0	0	cloudy	L. Leonardy.
Fort McKavett, Texas	27.73	704.3	29.99	761.7	51	10.6	43	sw.	5	2.2	.....	0	0	.....	.....	0	0	clear	J. E. Thatcher.
Fort Missoula, Montana	26.34	669.0	29.65	753.1	45	7.2	86	s.	2	0.9	.....	.....	10 s	.....	.....	0	0	cloudy	J. H. Jones.
Fort St. Michaels, Alaska	29.78	756.4	29.82	757.4	9	—12.8	100	ne.	2	0.9	.....	0	0	.....	.....	0	0	clear	A. P. Leavitt.
Fort Shaw, Montana	25.99	660.1	29.66	753.4	45	7.2	49	sw.	11	4.9	.....	1 cs	0	.....	.....	0	0	clear	A. L. Mathews.
Fort Sill, Indian Territory	28.67	728.2	29.91	759.7	49.3	9.6	73	n.	8	3.6	.....	0	0	.....	.....	0	0	clear	T. Cleary.
Fort Stevenson, Dakota	27.99	710.9	29.89	759.2	29	— 1.7	88	calm	0	0	.....	0	0	.....	.....	0	0	clear	W. Burrows
Fort Verde, Arizona	.....	.....	.....	.....	33.9	1.1	55	w.	.....	.....	1	0	0	.....	.....	0	0	clear	D. Brooks.
Fort Washakie, Wyoming	24.27	616.4	.....	.....	34.8	1.6	72	nw.	4	1.8	.....	1 c	0	nw.	.....	0	0	clear	T. M. Ambler.
Fredericksburg, Texas	28.17	715.5	29.89	759.2	55	12.8	69	w.	2	0.9	.....	0	0	.....	.....	0	0	clear	H. S. Miles.
Galveston, Texas	29.86	758.4	29.90	759.4	73	22.8	100	sw.	4	1.8	.....	.....	10 s	.....	.....	c.03	0.8	cloudy	E. O'C. MacInernev.
Grand Haven, Michigan	28.62	726.9	29.31	744.5	53.0	11.7	83	s.	24	10.7	.....	.....	10 s	.....	s.	0.59	15.0	cloudy	W. A. Reid.
Hatteras, North Carolina	30.02	762.5	30.04	763.0	66	18.9	78	s.	22	9.8	.....	.....	9 k	.....	s.	0	0	threatening	R. M. Crawford.
Helena, Montana	25.45	646.4	29.71	754.6	37	2.8	72	sw.	2	0.9	.....	0	5 s	.....	.....	0	0	fair	N. C. Smith.
Henrietta, Texas	28.97	735.8	30.00	762.c	55.0	12.8	74	n.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. W. Byram.
Huron, Dakota	28.37	720.6	29.82	757.4	34	1.1	81	nw.	13	5.8	.....	0	1 s	.....	.....	0.03	0.8	clear	S. W. Glenn.
Indianapolis, Indiana	28.65	727.7	29.47	748.5	59.5	15.3	77	sw.	11	4.9	.....	0	5 ks	.....	w.	0.15	3.8	fair	O. Schutze
Indianola, Texas	29.86	758.4	29.89	759.2	73.6	23.1	97	s.	3	1.3	.....	10 k	0	s.	.....	0.01	0.3	cloudy	I. A. Reed.
Jacksboro, Texas	28.74	730.0	29.92	760.0	50	10.0	77	nw.	7	3.1	.....	0	0	.....	.....	0	0	clear	J. P. Sherry.
Jacksonville, Florida	30.01	762.2	30.05	763.3	70	21.1	90	s.	22	9.8	.....	.....	10 s	.....	.....	0	0	cloudy	J. W. Smith.
Keokuk, Iowa	28.77	729.2	29.38	746.2	52.0	11.1	93	sw.	16	7.2	.....	.....	10 s	.....	sw.	0.36	9.1	threatening	F. Z. Gosewisch
Key West, Florida	30.08	764.0	30.10	764.5	78.0	25.6	72	se.	12	5.4	.....	6 c;cs	1 k	.....	se.	0	0	fair	L. M. Melbourne.
Kittyhawk, North Carolina	30.02	762.5	30.04	763.0	62	16.7	84	s.	22	9.8	.....	0	7 k	.....	.....	0	0	fair	E. A. Beals.
Knoxville, Tennessee	28 75	730.2	29.79	756.7	63.2	17.3	73	sw.	6	2.7	.....	.....	10 s	.....	sw.	0	0	cloudy	J. A. Cody.
La Crosse, Wisconsin	28.52	724.4	29.32	744.7	47	8.3	86	n.	36	16.1	.....	.....	10 n	.....	.....	0.25	6.3	light rain	S. C. Emery.
La Mesilla, New Mexico	26.13	663.7	30.01	762.2	35.2	1.8	56	calm	0	0	.....	0	0	.....	.....	0	0	clear	N. D. Lane.
Leavenworth, Kansas	28.80	731.5	29.71	754.6	49	9.4	71	nw.	20	8.9	.....	.....	10 s	.....	nw.	0.36	9.1	cloudy	A. W. Browne.
Lewiston, Idaho	28.85	732.8	29.70	754.4	47	8.3	100	w.	1	0.4	.....	.....	10 n	.....	.....	0.16	4.1	light rain	W. Blake.
Little Rock, Arkansas	29.46	748.3	29.78	756.4	60	15.6	100	sw.	3	1.3	.....	0	fg.	.....	.....	0.82	20.8	light fog	W. U. Simmons.
Los Angeles, California	29.75	755.6	30.15	765.8	45.0	7.2	60	se.	1	0.4	.....	0	0	.....	.....	0	0	clear	E. F. Kubel.
Louisville, Kentucky	29.00	736.6	29.57	751.1	61	16.1	87	sw.	10	4.5	.....	.....	9 ks	.....	sw.	0.23	5.8	cloudy	H. C. Smyth.
Lynchburg, Virginia	29.20	741.7	29.90	759.4	60.5	15.8	64	s.	8	3.6	.....	.....	10 ks	.....	sw.	0	0	cloudy	W. R. Bushby.
Madison, Wisconsin	28.20	716.3	29.24	742.7	49	9.4	93	s.	12	5.4	.....	.....	10 s	.....	s.	1.36	34.5	cloudy	C. A. Shaw.
Marquette, Michigan	28.76	730.5	29.51	749.5	36	2.2	94	n.	12	5.4	.....	.....	10 n	.....	calm	0.23	5.8	light rain	J. Gilligan.
Mason, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	...	...	.....	P. M. Wilson.
Memphis, Tennessee	29.45	748.0	29.79	756.7	63	17.2	90	sw.	12	5.4	.....	0	4 s	.....	sw.	0.30	7.6	fair	D. T. Flannery.
Milwaukee, Wisconsin	28.43	722.1	29.20	741.7	53	11.7	80	sw.	18	8.0	.....	2 ck	7 ks	.....	sw.	0.66	16.8	threatening	W. Line.
Mobile, Alabama	29.89	759.2	29.93	760.2	73	22.8	94	w.	2	0.9	.....	.....	10 n	.....	w.	6.80	172.7	thund'r st'm.	J. D. Paxton.

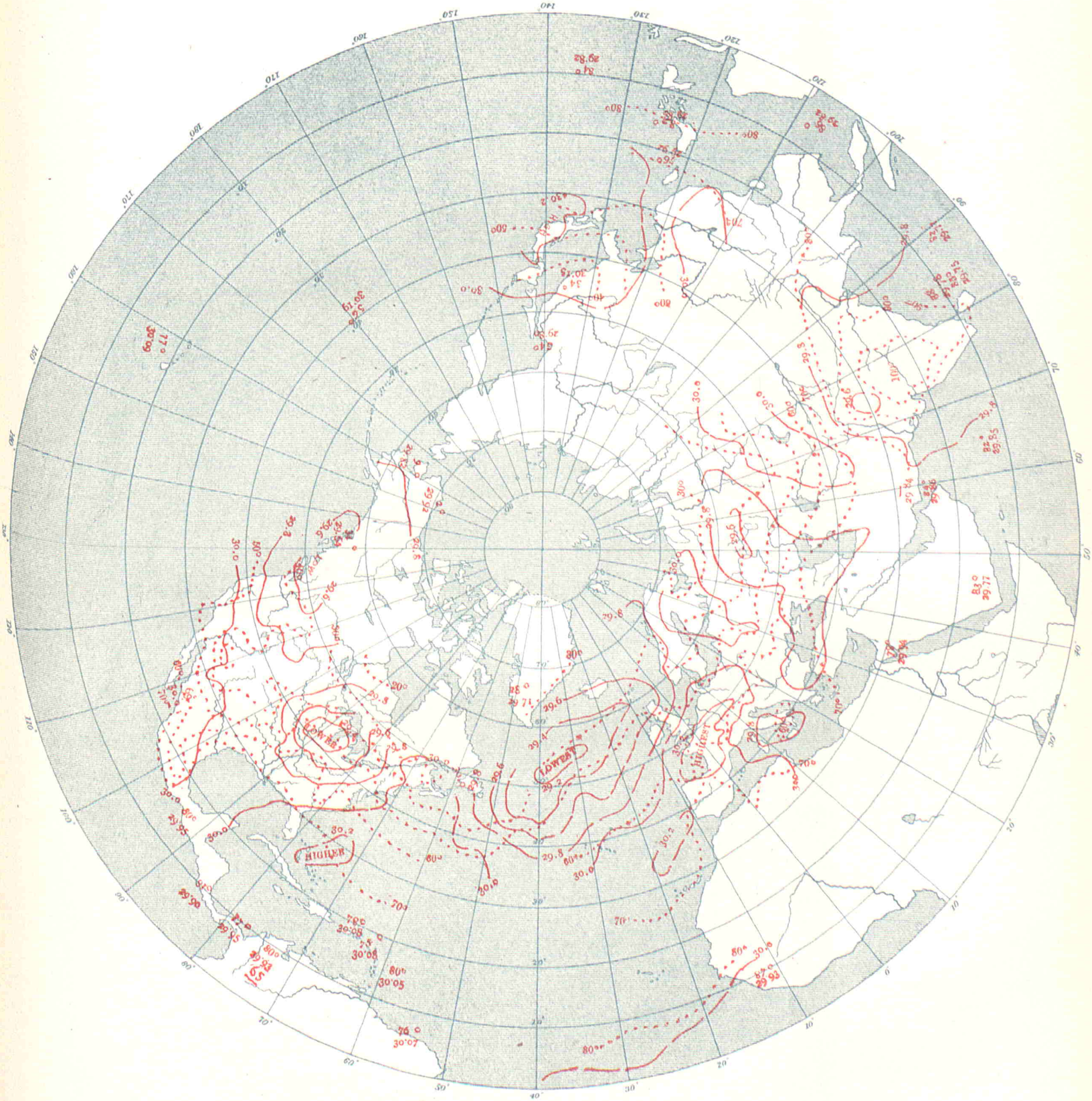
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
UNITED STATES.—Cont'd.																			
Montgomery, Alabama	29.64	752.8	29.87	758.7	69	20.6	93	w.	10	4.5		2c;hz	2 k		w.	2.71	68.8	clearing	J. B. McLaughlin.
Moorhead, Minnesota	28.78	731.0	29.80	756.9	25	— 3.9	88	n.	20	8.9		0	0			0	0	clear	H. Bessant.
Morgantown, W. Virginia	28.96	735.6	30.00	762.0	58.0	14.4	64	s.	9	4.0			10 s		s.	0	0	cloudy	G. C. Lewis.
Mt. Washington, N. H.	23.65	600.7	30.06	763.5	28.0	— 2.2	96	w.	20	8.9			fg.		w.	0.72	18.3	dense fog.	J. G. Linsley.
Nashville, Tennessee	29.18	741.2	29.72	754.9	63.5	17.5	87	sw.	8	3.6		2 cs	6 ks	sw.	sw.	0.04	1.0	fair	L. A. Jesunofsky.
New Haven, Connecticut	29.83	757.7	29.95	760.7	45	7.2	76	e.	5	2.2		sk.	sk.			0	0	dense smoke	J. H. Sherman.
New London, Connecticut	29.92	760 0	29.97	761.2	48	8.9	63	se.	4	1.8		0	0			0	0	clear	J. G. Lynch.
New Orleans, Louisiana	29.87	758.7	29.93	760.2	74.2	23.4	94	sw.	6	2.7		0	5 ks		sw.	0.09	2.3	fair	S. Dunne.
Newport, Rhode Island	29.93	760.2	29.98	761.5	44.8	7.1	72	n.	2	0.9		0	hz.			0	0	dense haze	W. McGillivray.
New River, N. Carolina					65	18.3	91	sw.			6		10 s		s.	0	0	threatening	C. C. Corbin.
New Shoreham, Rhode I'd.	29.96	761.0	29.98	761.5	45.0	7.2	60	e.	4	1.8		0	hz			0	0	clear	W. Davis.
New York, New York	29.72	754.9	29.90	759.4	54	12.2	61	se.	4	1.8		0	fg.			0	0	clear	E. B. Garriott.
Norfolk, Virginia	29.93	760.2	29.96	761.0	61	16.1	84	s.	14	6.3			10s;ks		sw.	0	0	cloudy	J. T. Ellker.
North Platte, Nebraska	26.96	684.8	29.92	760.0	40.6	4.8	82	nw.	10	4.5			10 s			0.01	0.3	cloudy	E. F. Brady.
Olympia, Washington T'y	29.66	753.4	29.70	754.4	39.0	3.9	89	s.	2	0.9			10 n		calm	0.52	13.2	light rain	J. Dascomb.
Omaha, Nebraska	28.49	733.6	29.70	754.4	46.3	7.9	83	nw.	26	11.6			10 n		nw.	0.03	c.8	light rain	A. Pollak.
Ooglaamie, Pt. Barrow, Alas.	29.90	759.4	29.92	760.0	1.6	—16.9	95	w.	4	1.8			10 n			inap.	inap.	light snow	P. H. Ray.
Oswego, New York	29.34	745.2	29.68	753.9	52.0	11.1	52	se.	15	6.7		4 ck	hz.	w.		0	0	fair	S. W. Beall.
Palestine, Texas	29.34	745.2	29.90	759.4	64.0	17.8	90	w.	4	1.8		5 ck	fg.	w.		0.46	11.7	fair	L. M. Pindell.
Pensacola, Florida	29.88	758.9	29.92	760.0	73.7	23.2	94	sw.	25	11.2			10 s		sw.	0.10	2.5	cloudy	M. McGauran.
Philadelphia, Pa	29.79	756.7	29.89	759.2	55	12.8	62	e.	6	2.7		10 cs	hz.	w.		0	0	cloudy	T. F. Townsend.
Pike's Peak, Colorado	17.53	445.3	29.81	757.2	4	—15.6	83	nw.	32	14.3		0	0			0.04	1.0	clear	L. M. Dey.
Ploche, Nevada	23.98	609.1	29.97	761.2	39	3.9	43	sw.	8	3.6		0	0			0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	28.84	732.5	29.67	753.6	59.0	15.0	48	s.	12	5.4			10 n		s.	inap.	inap.	light rain	J. H. Bryce.
Port Eads, Louisiana	29.97	761.2	29.98	761.5	73.1	22.8	98	sw.	10	4.5		5c;ck	2 s	w.	sw.	0.04	1.0	fair	H. G. Christian.
Port Huron, Michigan	28.74	730.0	29.44	747.8	48.3	9.1	93	se.	7	3.1			10 n			0.42	10.7	light rain	W. O. Bailey.
Portland, Maine	29.95	760.7	30.00	762.0	48.0	8.9	63	calm	0	0		4 ck	3 s	w.	calm	0	0	fair	D. C. Murphy.
Portland, Oregon	29.66	753.4	29.73	755.1	43.0	6.1	92	s.	6	2.7			10 s		s.	0.18	4.6	cloudy	M. L. Hearne.
Portsmouth, N. Carolina					66	18.9	84	sw.	17	7.6			10 ks		sw.	0.01	0.3	cloudy	F. P. Chaffee.
Prescott, Arizona	24.78	629.4	30.00	762.0	29	— 1.7	54	s.	3	1.3		0	0			0	0	clear	J. McN. Wright.
Provincetown, Mass	29.94	760.5	29.98	761.5	46	7.8	76	se.	14	6.3		0	0			0	0	clear	P. T. Jenkins.
Punta Rassa, Florida	30.06	763.5	30.07	763 8	74.5	23.6	83	se.	10	4.5		8 c	2 ks	nw.	s.	0.01	0.3	cloudy	W. J. Evans.
Red Bluff, California	29.55	750.6	29.92	760.0	52.8	11.6	83	s.	12	5.4			10 n		s.	0.01	0.3	light rain	J. M. Frantz.
Rio Grande City, Texas	29.58	751.3	29.82	757.4	75	23.9	76	calm	0	0			10 s		calm	0	0	cloudy	W. H. Taylor.
Rochester, New York	28.93	734.8	29.62	752.3	50	10.0	64	se.	14	6.3		10 cs	hz.			0	0	cloudy	A. T. Sherwood.
Roseburg, Oregon	29.27	743.4	29.83	757.7	42.9	6.1	93	s.	6	2.7			10 n		s.	0.47	11.9	light rain	J. J. Nanry.
Sacramento, California	29.98	761 5	30.06	763.5	52.9	11.6	86	s.	8	3.6		0	6 s			0	0	fair	J. A. Barwick.
St. Louis, Missouri	28.96	735.6	29.57	751.1	55.0	12.8	74	sw.	20	8.9			10 s		sw.	0.15	3.8	cloudy	J. H. Webber.
St. Paul, Minnesota	28.65	727.7	29.54	750.3	41.0	5.0	86	nw.	18	8.0			10 s		nw.	0.45	11.4	cloudy	P. F. Lyons.
St. Vincent, Minnesota	28.97	735.8	29.88	758.9	31	— 0.6	78	n.	6	2.7		0	0			0	0	clear	G. Kingsbury.
Salt Lake City, Utah	25.55	649.0	29.92	760.0	45	7.2	60	se.	2	0.9		8 k	0	w.		0	0	cloudy	J. Craig.
San Antonio, Texas	29.17	740.9	29.87	758.7	60.6	15.9	87	calm	0	0		2 cs	0			0	0	clear	E. Lane.
San Diego, California	30.03	762.7	30.10	764.5	48.6	9.2	98	ne.	4	1.8		0	0			0	0	clear	A. C. Dobbins.
Sandusky, Ohio	28.81	731.8	29.51	749.5	57	13.9	86	s.	26	11.6			10 n			0.06	1.5	light rain	M. H. Perry.
Sandy Hook, New Jersey	29.85	758.2	29.89	759.2	55.0	12.8	74	s.	10	4.5		hz.	hz.	calm	calm	c	0	light haze	B. A. Blundon.
San Francisco, California	30.06	763.5	30.13	765.3	51	10.6	96	sw.	7	3.1			fg.		sw.	0	0	dense fog	N. Gorom.
Santa Fé, New Mexico	23.18	588.8	29.94	760.5	37	2.8	53	se.	2	0.9		2 0	hz.			0	0	clear	H. U. Jones.
Savannah, Georgia	29.93	760.2	30.02	762.5	65	18.3	87	s.	6	2.7			10 n		s.	0.05	1.3	light rain	H. W. Ford.
Shreveport, Louisiana	29.61	752.1	29.85	758.2	62	16.7	100	s.	4	1.8			10 s		s.	1.49	37.8	cloudy	E. N. Meekins.
Silver City, New Mexico	24.27	616.4	29.95	760.7	32	0.0	40	nw.	1	0.4		0	0			0	0	clear	J. B. Wallace.
Sitka, Alaska	29.48	748.8	29.54	750.3	34	1.1	83	e.	5	2.2		0	0			0.30	7.6	clear	J. J. McLean.
Smithville, North Carolina	29.99	761.7	30.03	762.7	65	18.3	90	sw.	16	7.2			10 s			0	0	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	27.60	701.0	29.66	753.4	42	5.6	82	s.	12	5.4			10 s			0.03	0.8	cloudy	D. Moore.
Springfield, Illinois	28.75	730.2	29.45	748.0	55	12.8	69	s.	15	6.7		0	8 s		w.	0.34	8.6	cloudy	T. B. Jennings.
Springfield, Massachusetts	29.83	757.7	29.96	761.0	48.8	9.3	63	w.	2	0.9		0	hz.			0	0	clear	T. S. Outram.
Springfield, Mo	28.33	719.6	29.85	758.2	50	10.0	77	w.	14	6.3		0	0			0.01	0.3	clear	J. B. Marbury.
Stockton, Texas	26.98	685.3	30.01	762.2	48.0	8.9	27	sw.	10	4.5		0	4 s		sw.	0	0	fair	J. O'Dowd.
Thatcher's Island, Mass	29.93	760.2	29.98	761.5	44.3	6.8	83	se.	11	4.9		8 k	0	sw.		0	0	cloudy	G. Liebmann.
Toledo, Ohio	28.75	730 2	29.46	748.3	58	14.4	74	sw.	14	6.3		0	8 ks		sw.	0.04	1.0	threatening	A. Buell.
Tucson, Arizona	27.65	702.3	30.04	763.0	43	6.1	39	se.	4	1.8		0	0			0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.39	746.5	29.76	755.9	45	7.2	60	sw.	12	5.4			10 s			0.04	1.0	cloudy	J. Daly.
Uvalde, Texas	28.91	734.3	29.88	758.9	61	16.1	78	ne.	6	2.7		0	0			0	0	clear	E. C. Imlay.
Vicksburg, Mississippi	29.62	752.3	29.88	758.9	66	18.9	90	sw.	4	1.8		0	8 ks		s.	2.43	61.7	cloudy	J. T. Kenan.
Visalia, California	29.69	754.1	30.06	763.5	50.0	10.0	93	nw	4	1.8		0	0			0	0	clear	J. T. Cochran.
Washington, D. C.	29.74	755.4	29.86	758.4	58	14.4	65	s.	6	2.7			10 s			0	0	cloudy	B. M. Pursell.
West Las Animas, Colorado	25.97	659.6	29.93	760.2	31	— 0.6	74	w.	5	2.2		0	0			0	0	clear	J. Grover.
Wickenburg, Arizona					38.5	3.6	74	w.			1	0	0			0	0	clear	H. A. Kremp.
Williamsport, Pa	29.14	740.1	29.75	755.6	51.5	10.8	63	calm	0	0			10 s			0	0	cloudy	B. F. Hough.
Wilmington, N. Carolina	29.95	760.7	30.01	762.2	67	19.4	78	sw.	17	7.6			10 s		sw.	0.05	1.3	cloudy	E. W. McGann.
Winnemucca, Nevada	25.47	646.9	29.87	758.7	47	8.3	61	sw.	17	7.6			10 ks		sw.	0.02	0.5	cloudy	J. R. Williams.
Yankton, Dakota	28.44	722.4	29.78	756.4	41	5.0	82	nw.	18	8.0			10 s			0.05	1.3	cloudy	J. H. Atfield.
Yuma, Arizona	29.88	758.9	30.03	762.7	49.3	9.6	70	nw.	2	0.9		0	0			0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.06	560.3			55.5	13 1	74	s.	1.2	0.5			9ks;s		w.	0	0	cloudy	Joaquin Gomez.
Bridgetown, Barbados, W.I.	30.04	763.0	30.05	763.3	80	26.7	78	e.				5 k	5 ks	e.	e.	0	0	fair	J. A. Racker.
Buenaventura, U. S. C.																			J. I. Plume.
Guadeloupe, W. I.	29.96	761.0	29.98	761.5	75	23.9	95	se.				2 k	5 ks					rainy	B. Bigar.
Havana, Cuba, W. I.	30.07	763.8	30.12	765.0	78	25.6	58	se.	1.2	0.5		2 cs	1 ks	calm	calm	0	0	fair	A. Van Caneghem.
Kingston, Jamaica, W. I.	30.03	762.7	30.04	763.0	78.3	25.7	78	calm	0	0		0	0			0	0		Robert Johnston.
Navassa, W. I.																			F. M. Everett.
Paramaribo, S. A.	30.07	763.8	30.07	763.8	76	24.4	93	ne.			3		10 n	e.	e.	0.550	14.0	rainy	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.47	748.5	29.93	760.2	80	26.7	89	n.			1		9 ks		n.	0.58	14.7	misty	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.							92	ne.			4	0	0			0	0	clear	Earl Flint.
Santiago de Cuba, W. I.	30.05	763 3	30.08	764.0	80	26.7	65	n.	4.8	2.1		0	1 ks			0	0	fair	Robert Mason.
York Factory, B. A.	29.91	759.7	29.96	761.0	16.0	— 8.9	92	s.	10	4.5		1 c	0	s.		0	0	fair	W. Wood.

STATIONS AND VESSELS.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
BRITISH NAVAL.																		
H. M. S. Alert, S. 7° 02′ E. 52° 41′	29.86	758.4	83.2	28.4	72	sse.			1–2		3							d. clouds.
H. M. S. Alexandra, Malta, Mediterranean	29.85	758.2	64.2	17.9	68	w.			3–6		5	w.						squally.
H. M. S. Bacchante, Haifa Bay, Palestine	29.99	761.7	71	21.7	71	nw.			1		1	nw.						blue sky.
H. M. S. Cleopatra, Point de Galle, Ceylon, India	29.75	755.6	84.5	29.2	91						1	calm						blue sky.
H. M. S. Comus, Pelew Island, Oceania	29.82	757.4	84	28.9	91	e.			1–3		4	ne.						d. clouds.
H. M. S. Diamond, S. 38° 53′, E. 147° 51′	30.24	768.1	59	15.0	87	e.			1		2	nw.						misty.
H. M. S. Dido, N. 17° 00′, W. 61° 45′	30.13	765.3	78	25.6		se.			1–3		5	e.						d. clouds.
H. M. S. Druid, N. 18° 23′, W. 75° 30′	30.03	762.7	79.5	26.4	86	ne.			3–4		2	ne.				3	ne.	d. clouds.
H. M. S. Dryad, N. 25° 44′ E. 57° 46′	29.74	755.4				w.			2		3	w.				1	v	d. clouds.
H. M. S. Eclipse, S. 11° 41′, E. 43° 17′			81	27.2	100	s.			1–2		2					2	wnw.	d. clouds.
H. M. S. Espiegle, S. 39° 02′ E. 143° 08′	30.11	764.8	61	16.1	82	e.			2		6	w.				2	sw.	d. clouds.
H. M. S. Fawn, N. 13° 21′, E. 43° 10′	29.77	756.1	82.5	28.1	70	s.			6		2					4	s.	misty.
H. M. S. Gannet, S. 29° 56′, W. 71° 20′	30.05	763.3	57	13.9	87	ese.			2		5							misty.
H. M. S. Inconstant, Simon's Bay, Cape Colony	29.99	761.7	65	18.3	89	ese.			1–2		3	ese.				2	e.	d. clouds.
H. M. S. Iron Duke, N. 21° 40′, E. 114° 45′	29.87	758.7	71	21.7	100	ene.			2		8	e.				1	e.	d. clouds.
H. M. S. Lark, S. 9° 36′, E. 161° 00′	29.88	758.9	79 3	26.3		nne.			2		10					1	ene.	overcast.
H. M. S. Magpie, N. 35° 25 , E. 139° 43′	30.18	766.6	56.7	13.7	86	ene.			1		10							misty.
H. M. S. Malabar, Suez Canal, Egypt	29.94	760.5	78	25.6	65	wnw.			1		0							blue sky.
H. M. S. Nelson, Sydney, N. S. Wales	30.20	767.1	69	20.6	79	e.			1		1	e.						blue sky.
H. M. S. Northampton, Bermuda, W. I.	30.12	765.0	65.5	18.6	78	wsw.			1		7							blue sky.
H. M. S. Orontes, N. 34° 00′ W. 12° 40′	30.19	766.8	64.5	18.1	96	nne.			3		0					2	nne.	d. clouds.
H. M. S. Pegasus, N. 2° 04′, E. 106° 06′	29.82	757.4	86	30.0	75	nne.			2		0					4	ne.	blue sky.
H. M. S. Rambler, S. 11° 42′, E. 12° 12′	29.89	759.2	80	26.7	95	ssw.			2		4	ssw.				2	s.	d. clouds.
H. M. S. Rocket, Esquimalt, Vancouver Id., B. C.	29.60	751.8	37	2.8		wsw.			2		6							d. clouds.
H. M. S. Superb, Corfu Roads, Ionian Islands*	29.78	756.4	64	17.8	67	s.			1–2		2	sse.						misty.
H. M. S. Tamar, N. 37° 07′ W. 8° 58′	30.15	765.8	68.5	20.3	70	nnw.			2		2					1	nnw.	d. clouds.
H. M. S. Thalia, S. 26° 28′, E. 7° 46′	30.09	764.3	70.5	21.4	73	sse.			3		4					3	se.	d. clouds.
H. M. S. Triumph, Coquimbo, Chili	30.01	762.2	60	15.6	82	calm			0		1	calm						blue sky.
H. M. S. Tyne, N. 10° 21′, E. 61° 54′	29.85	758.2	82	27.8	83	nw.			3		1					2	nw.	blue sky.
H. M. S. Woodlark, Muscat Arabia	29.86	758.4	83.5	28.6	79	calm			0		0							misty.
PORTUGUESE NAVAL.																		
Rio Lima, Bulama, Senigambia	30.02	762.6	81.0	27.2	90	wnw.			2		2		wnw.			2		d. clouds.
Tamega, Aberdeen, China	29.96	761.0	75.2	24.0	83	calm			0		10							overcast.
SWEDISH NAVAL.																		
Balder, N. 39° 32′ W. 69° 28′	30.02	762.5	43.0	6.1	95	sw.			2		0							misty.
UNITED STATES NAVAL.																		
Navy Yard, Pensacola, Fla	29.87	758.7	74	23.3	90	sw.	30	13.4			10		sw.	0	0			cloudy.
Navy Yard, Portsmouth, N. H.	30.00	762.0	42	5.6	83	ne.	10	4.5			2		ne.	0	0			fair.
Naval Hospital, Yokohama, Japan	30.01	762.2	55	12.8	90	ne.			1		0			0	0			clear.
Adams, N. 13° 42′ W. 94° 43′	29.66	753.4	85	29.4	87	wnw.			1		5?		nw.	0	0	sm'h		cloudy?.
Alaska, Panama, Panama	29.85	758.2	77	25.0	77	nnw.			2		5		n.	0	0	sm'h		fair.
Alert, Kobe, Japan*	30.02	702.5	62	16.7	51	w.			1		2			0	0	sm'h		hazy.
Alliance, N. 20° 00′ W. 95° 00′	29.90	759.4	80	26.7	91	e.			4		2			0	0	sm'h		clear.
Ashuelot, Kobe, Japan	30.14	705.5	58	14.4	94	w.			1		0							hazy.
Brooklyn, Montevideo, Uruguay	30.00	762.0	59	15.0	76	ssw.	15	6.7			5		s;w.	0.02	0.5	mod	s;w	fair.
Colorado, New York, N. Y.	29.83	757.7	53	11.7	97	se.	2	0.9			0			0	0			clear.
Enterprise, N. 20° 05′, W. 82° 25′*	30.03	702.7	81	27.2	87	e.			3		2		e.			sm'h		clear.
Essex, S. 11° 07′ W. 25° 37′	30.03	762.7	81	27.2	78	ene.			2		2		e.			mod.	e.	clear.
Franklin, Norfolk, Va.	30.02	702.5	61	16.1	82	ssw.	16	7.2			8		wsw.	0	0			fair.
Galena, Leghorn, Italy	29.93	760.2	64	17.8	73	ne.			4		5		ne.			mod.	sw.	fair.
Independence, Navy Yard, Mare Island, Cal.	29.96	761.0	56	13.3	87	sw.			4		5		sw.	0	0			fair.
Irquois, Mare Island, Cal.	30.10	764.5	56	13.3	94	sw.			3		5		sw.					fair.
Kearsarge, N. 31° 10′, W. 73° 45′	30.24	768.1	67	19.4	74	sse.			4		2		se.			sm'h		fair.
Lackawanna, Casma Bay, Peru*	29.89	759.2	67	19.4	95	calm			0		5?		sw.					cloudy.?
Lancaster, Leghorn, Italy*	29.93	700.2	65	18.3	93	nne.			2		5		calm	0	0			fair.
Marion, S. 25° 38′, E. 0° 32′	30.13	765.3	74	23.3	86	ese.			2		5		ese.			sm'h		fair.
Michigan, Erie, Pa.	29.55	750.6	56	13.3	94	s.			1		10		sw.					raining.
Minnesota, Newport, R. I.	29.91	759.7	42	5.6	91	ne.	5	2.2			0							misty.
Monocacy, Kobe, Japan	30.17	766.3	60	15.6	71	wsw.			1		2		calm					fair.
New Hampshire, Newport, R. I.	29.91	759.7	43	6.1	92	ne.			3		0					sm'h		clear.
Nipsic, Villafranca, France	29.98	761.5	70	21.1	49	se.			2		2					sm'h		clear.
Onward, Callao, Peru†	30.07	763.8	62	16.7	100	sse.			1		10		n.			long	w.	cloudy.
Palos, Kobe, Japan	30.18	760.6	60	15.6	55	calm			0		0							fair.
Passaic, Washington, D. C.	29.89	759.2	59	15.0	82	s.			3		10		s.					cloudy.
Pensacola, Callao, Peru	29.97	761.2	63	17.2	89	calm					10		se.	0	0	sm'h		foggy.
Powhatan, N. 20° 56′, W. 83° 39′	30.04	763.0	80	26.7	91	ne.			3		5		ene.			sm'h		fair.
Portsmouth, N. 40° 06′, W. 66° 40′	30.04	763.0	48	8.9	100	nw.			2		2		w.			sm'h	ssw.	clear.
Quinnebaug, Leghorn, Italy	29.94	760.5	64	17.8	53	ene.			3		8		ene.			sm'h		hazy.
Ranger, N. 21° 25′, W. 105° 20′*	29.96	761.0	72	22.2	71	n.			1–2		5			0	0	sm'h		fair.
Richmond, Kobe, Japan*	30.10	764.5	62	16.7	56	calm			0		0			0	0			clear.
Saratoga, N. 40° 09′, W. 66° 42′	30.02	762.5	46	7.8	77	wnw.			1		0			0	0	light	sw.	clear.
Shenandoah, N. 17° 53′, W. 82° 40′*	30.08	764.0	79	26.1	86	ne.			1–2		5		ne.			sm'h		fair.
St. Louis, League Island, Pa.	30.13	765.3	54	12.2	80	sse.	6	2.7			8			0	0			misty.
Swatara, Kobe, Japan*	29.99	761.7	62	16.7	56	nw.			1		2		calm			sm'h		fair.
Tennessee, Port Royal, S. C.	30.06	763.5	68	20.0	?	ssw.	12	5.4			10			Inap.	Inap.			sprinkling.
Vandalia, Hampton Roads, Va.	30.22	767.6	59	15.0	94	s.			4		10		calm					cloudy.
Wabash, Boston, Mass.	30.01	762.2	46	7.8	84	ene.	4	1.8			2		ne.	0	0			fair.
Wachusetts, Sitka, Alaska	29.40	746.7	33	0.6	100	se.			1		0					sm'h		clear.
Wyoming, Port Royal, S. C.	30.02	762.5	64	17.8	94	s.	8	3.6			10		sw.					drizzling.
Yantic, Lynn Haven Bay, Va*†	30.19	766.8	59	15.0	76	ssw.			3		10					sm'h		cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.			Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
ALLAN LINE.																	
S.S. Nova Scotian, N. 45° 24′ W. 43° 22′	29.18	741.2	39	3.9	.....	nne.	.....	.....	4	.....	10	.....	n.	.....	h'vy	ne.	showery.
S.S. Polynesian, Liverpool, England*	29.66	753.4	59	15.0	.....	wsw.	.....	.....	4	.....	5?	.....	sw.	0	.....	.....	cloudy?
S.S. Waldensian, N. 44° 32′, W. 43° 20′*	29.86?	758.4?	42	5.6	.....	nnw.	.....	.....	6	.....	1	.....	nne.	light	light	high	n. squally.
AMERICAN STEAMSHIP COMPANY.																	
S.S. British Crown, N. 40° 47′, W. 52° 56′†	30.14	765.5	46	7.8	.....	nnw.	.....	.....	5	.....	4	.....	nnw.	2 h'r	2 h'r	r'gh	nnw. fine.
S.S. Illinois, N 48° 05′, W. 29° 31′	29.53	750.0	55	12.8	93	wsw.	.....	.....	5	.....	2	.....	sw.	.....	.....	h'vy	sw. fair.
S.S. Indiana, Philadelphia, Pa.†	29 93	760.2	57	13.9	75	sw.	.....	.....	3	.....	10	.....	w.	light	light	.....	..... cloudy.
S.S. Ohio, Liverpool, Eng.†	29.83	757 7	58	14.4	93	nw.	.....	.....	5	.....	6	.....	nw.	.....	.....	.....	..... showery.
S.S. Pennsylvania, N. 48° 35′, W. 26° 20′†	29.65	753.1	52	11.1	86	w.	.....	.....	4	.....	.....	.....	w.	.....	.....	r'gh	wsw. blue sky.
ANCHOR LINE.																	
S.S. Assyria, N. 42° 28′, W. 43° 41′*†	29.79	756.7	52	11.1	.....	w.	.....	.....	7	.....	5	.....	w.	0	0	r'gh	w. fine.
S.S. Devonia, N. 51° 30′, W. 29° 35.′†	29.29	744.0	51	10.6	.....	wsw.	.....	.....	7	.....	2	.....	wsw.	.....	.....	h'vy	wsw. clear.
S.S. Galatia, London, Eng†	30.09	764.3	.....	.....	.....	wsw.	.....	.....	4	.....	0	.....	.....	0	0	.....	..... clear.
S.S. India, N. 26° 12′, E. 34° 57′*	29.84	757.9	78	25.6	86	nnw.	.....	.....	1	.....	2	.....	.....	.....	.....	.....	..... fair.
ATLAS LINE.																	
S.S. Atlas, N. 19° 14′, W. 73° 40′†	30.11	764.8	76	24.4	81	e.	.....	.....	2	.....	2	.....	nw.	0	0	mod.	sw. fine.
S.S. Alvo, Savanilla, U. S. C.	30.01	762.2	104	40.0	.....	ne.	.....	.....	6	.....	2	.....	ne.	0	0	.....	..... fair.
S.S. Arden, N. 20° 37′, W. 74° 45′	.....	.....	.....	.....	.....	ne.	.....	.....	2	.....	5	.....	ne.	.....	.....	mod.	..... showery.
S.S. Athos, New York Bay, N. Y.	.....	.....	.....	.....	.....	sse.	.....	.....	1	.....	2	.....	.....	0	0	.....	..... clear.
S.S. Claribel, Kingston, Jamaica, W. I*†	30.15	765.8	81	27.2	87	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	..... clear.
BOSTON AND HALIFAX LINE.																	
S.S. Carroll, Halifax, N. S†	29.81	757.2	40	4.4	82	n.	.....	.....	1	.....	.....	.....	.....	0	0	.....	..... clear.
BRITISH METEOROLOGICAL OFFICE.																	
Bk. Arran, S 15° 30′, W. 28° 39′	30.07	763.8	82.3	27.9	63	ese.	.....	.....	2	.....	1	.....	.....	.....	.....	.....	..... blue sky.
S. Baroda, N. 9° 25′, E. 81° 40′	29.78	756.4	87.5	30.8	76	ene.	.....	.....	2	.....	4	.....	.....	.....	.....	.....	..... d. clouds.
British Merchant, S. 19° 03′, E. 76° 29′	29.91	759.7	79	26.1	74	ese.	.....	.....	6	.....	6	.....	.....	.....	.....	.....	..... misty.
Glencairn, N. 4° 01′, E. 89° 50′	29.77	756.1	82	27.8	91	sse.	.....	.....	4	.....	10	.....	.....	.....	.....	.....	..... drizzling.
CUNARD LINE																	
S. S. Parthia, N. 48° 04′, W. 29° 43′†	29.68	753.9	.....	.....	.....	s.	.....	.....	5	.....	10	.....	ssw.	rain	rain	long	wnw.
GENERAL TRANS-ATLANTIC COMPANY.																	
S. S. Canada, Havre, France	30.16	766.0	57.2	14.0	.....	calm	.....	.....	0	.....	2	.....	nw.	5 h'r	5 h'r	.....	..... clear.
S. S. France, N. 47° 59′, W. 27° 06′ †	29.60	751.7	53.6	12.0	.....	w	.....	.....	6	.....	.....	.....	wsw.	rain	rain	h'vy	wsw. light rain.
S. S. St. Germain, New York, N. Y.	.....	.....	53.6	12.0	.....	se.	.....	.....	2	.....	.....	.....	se.	0	0	mod.	..... hazy.
HAMBURG AMERICAN PACKET COMPANY.																	
S. S. Lessing, N. 43° 26′, W. 38° 46′	29.40	746.8	59	15.0	.....	wsw.	.....	.....	10	.....	10	.....	.....	rain	rain	.....	wsw. cloudy.
S. S. Silesia, New York, N. Y†	29.95	760.7	48.6	9.2	.....	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	..... fair.
JOHNSTON LINE.																	
S. S. Thanemore, N. 47° 56′, W. 27° 11′	29.67	753.6	.....	.....	.....	wsw.	.....	.....	6	.....	5	.....	wsw.	sh'rs	shr's	.....	wsw. fine.
LAMPERT AND HOLT'S LINE.																	
S. S. Hevelius, N. 12° —′, W. 26° 30′ *†	30.25	768.3	76	24.4	.....	nne.	.....	.....	2	.....	8?	.....	ne.	0	0	sm'h	..... clear ?
S. S. Humboldt. S. 4° 30′ W. 32° 26′.*	30.00	762.0	83.0	28.3	81	se	.....	.....	3	.....	2	.....	.....	0	0	4	sw. d. clouds.
LEYLAND LINE.																	
S. S. Iberian, N. 48° 29′, W. 36° 48′	29.26	743.2	.....	.....	.....	ssw.	.....	.....	3	.....	10	.....	wsw.	2 h'r	2 h'r	high	con.
MALLORY LINE.																	
S. S. Colorado, N. 31° 06′, W. 78° 47′†	30.03	762.7	70	21.1	.....	se.	.....	.....	6	.....	10	.....	se.	1 h'r	1 h'r	cross	se. cloudy.
MERCHANTS' EXPRESS LINE.																	
S. S. Freja, N. 49° 01′, W. 23° 46′†	29.51	749.5	56	13.3	75	wsw.	.....	.....	5–7	.....	5	.....	wsw.	10 h'r	10 h'r	.....	w. stormy.
MERCHANTS' STEAMSHIP COMPANY.																	
S. S. Glenapp, N. 36° 51′, W. 75° 41′* †	29.62?	752.3?	.....	.....	.....	s.	.....	.....	5	.....	9	.....	sw.	0	0	con.	sw. cloudy.
NATIONAL LINE.																	
S. S. England, Liverpool, Eng.	29.74	755.4	.....	.....	.....	w.	.....	.....	5	.....	2	.....	.....	0	0	.....	..... clear.
S. S. Erin, London, England	29.97	761.2	58	14.4	.....	sw.	.....	.....	5	.....	10	.....	wsw	0	0	.....	..... fine.
S. S. Helvetia, N. 51° 10′, W. 18° 00′	.....	.....	54	12.2	.....	wsw.	.....	.....	4	.....	1	.....	wsw.	0	0	mod.	wsw. clear.
NEW YORK, HAVANA AND MEXICAN MAIL.																	
S. S City of Alexandria, N. 39° 22′, W. 73° 58*†	30.03	762.7	54	12.2	.....	s.	.....	.....	3	.....	10	.....	.....	0	0	sm'h	ssw. hazy.
S. S. City of Puebla, Vera Cruz, Mexico†	29.75	755.6	74	23.3	.....	sse.	.....	.....	1	.....	0	.....	.....	.....	.....	.....	.....
NEW YORK HERALD WEATHER SERVICE.																	
S. S. Atlas, Port au Prince, Hayti, W. I.*†	30.14	765.5	82	27.8	.....	calm	.....	.....	0	.....	.....	.....	.....	.....	.....	sm'h	..... clear.
S. S. W. A. Scholten, N. 44° 50′, W. 35° 07′	29.24	742.7	50.5	10.3	.....	sw.	.....	.....	9	.....	.....	.....	.....	.....	.....	high	..... showery.
NORTH GERMAN LLOYD																	
S. S. Elbe, N. 43° 37′, W. 45° 56′	29.56	750.7	41.0	5.0	50	wsw.	.....	.....	6–7	.....	5	.....	w.	h'vy	h'vy	h'vy	nw. rainy.
S. S. Graf Bismarck, N. 6° 26′, W. 28° 36′	30.15	765.8	83.3	28.5	.....	ne.	.....	.....	4–5	.....	3	.....	ne.	0	0	mod.	ne. fair.
S. S. Hermann, Off New York, N. Y†	29.74	755.4	59.0	15.0	.....	sse.	.....	.....	4	.....	8	.....	w.	0	0	.....	w. fair.
S. S. Hohenzollern, N. 44° 37′, W. 6° 03′*	30.24	768.1	51.8	11.0	.....	ese.	.....	.....	2	.....	1	.....	e.	0	0	sm'h	ese. clear.
S. S Koln, N. 49° 27′, W. 18° 32′	29.67	753.6	51.5	10.8	90	w.	.....	.....	6	.....	5?	.....	w.	17 h'r	17 h'r	h'vy	w. clear ?
S. S. Kronprinz F. Wilhelm, N. 49° 49′, W. 18° 43′	29.65	753.1	54.5	12.5	.....	sw.	.....	.....	4	.....	0	.....	.....	10 h'r	10 h'r	5	sw. clear.
S. S. Leipzig, N. 49° 30′, W. 6° 35′	30.04	763.0	56.0	13.3	97	w.	.....	.....	5	.....	10	.....	w.	1 h'r	1 h'r	mod.	wnw. fair.
S. S. Main, N 49° 10′, W. 26° 10′	29.68	753.9	55.4	13.0	.....	wsw.	.....	.....	5	.....	6?	.....	wsw.	0	0	high	wsw. covered.?
S. S. Mosel, N. 49° 51′, W. 8° 08′	29.97	761.2	55	12.8	.....	ssw.	.....	.....	6	.....	9	.....	s.	⅜ h'r	⅜h'r	r'gh	s. cloudy,
S. S. Nurnburg, N. 47° 53′, W. 28° 30′*	29.57	751.1	47.3	8.5	.....	se.	.....	.....	5	.....	10	.....	s.	10¾ h	ours	h'vy	sw. misty.
S. S. Oder, N 41° 40′, W. 52° 58′	29.93	760.2	39.2	4.0	.....	nw.	.....	.....	5	.....	4	.....	nw.	hail	hail	high	wnw. hailing.
S. S. Ohio, N 41° 08′ W. 47° 30′	29.90	759 4	.....	.....	.....	nw.	.....	.....	6	.....	6	.....	nw.	6 h'r	6 h'r	cross	nw. fair.
S. S. Rhein, N. 41° 10. W. 47° 27′	29.89	759.2	.....	.....	.....	nw.	.....	.....	5	.....	5	.....	nw.	0	0	cross	nw. fair.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																	
S. S. Belgic San Francisco, Cal.†	30.12	765.0	53	11.7	86	se.	.....	.....	5	.....	5	.....	nw.	0	0	sm'h	..... fair.
S. S. Oceanic, Hong Kong, China*	30.00	762.0	71	21.7	71	e.	.....	.....	5	.....	.....	.....	.....	.....	.....	.....	..... cloudy.
OCEAN STEAMSHIP COMPANY.																	
S. S. City of Augusta, New York, N. Y.†	29.83	757.7	.....	.....	.....	ssw.	.....	.....	1	.....	0	.....	.....	0	0	.....	..... smoky.
S. S. Seminole, Savannah, Ga.†	29.92	760.0	70	21.1	90	ssw.	.....	.....	5	.....	10	.....	sw.	4 h'r	4 h'r	.....	..... cloudy.
OREGON IMPROVEMENT COMPANY.																	
S. S. Willamette, N. 45° 38′, W. 124° 22′*†	29.76	755.9	44	6.7	84	sw.	.....	.....	6	.....	7	.....	ssw.	0.03	0.8	long	w. rainy.
OREGON RAILWAY AND NAVIGATION COMPANY.																	
S. S. City of Chester, Departure Bay, Alaska*†	29.62	752.3	33	0.6	?	calm	.....	.....	0	.....	1	.....	s.	.....	.....	.....	..... clear.
S. S. Columbia, N. 42° 58′, W. 124° 44′†	29.81	757.2	47	8.3	70	sw.	.....	.....	5	.....	2	.....	n.	.....	.....	mod.	wsw. clear.
S. S. Oregon, N. 46° 16′, W. 124° 25′†	29.93	760.2	46	7.8	77	ssw.	.....	.....	3	.....	5	.....	w.	.....	.....	light	sw. squally.
PACIFIC COAST STEAMSHIP COMPANY.																	
S. S. Ancon, San Pedro Bay, Cal †	30.07	763.8	49	9.4	85	nnw.	.....	.....	2	.....	5	.....	nw.	.....	.....	sm'h	..... fair.
S. S. Idaho, San Francisco, Cal.†	30.08	764.0	46	7.8	92	nw.	.....	.....	3	.....	fg.	.....	.....	.....	.....	.....	..... foggy.
S. S. State of California, San Francisco, Cal.†	30.11	764.8	50	10.0	93	nw.	.....	.....	2	.....	10	.....	.....	.....	.....	.....	..... overcast.
S. S. Victoria, Nanaimo, Vancouver's I'd.†	29.71	754.5	33	0.6	80	calm	.....	.....	0	.....	8	.....	.....	.....	.....	.....	..... drizzling.
PACIFIC MAIL STEAMSHIP CO.																	
S. S. Australia, Sydney, N. S. W.	30.16	766.1	68	20.0	95	e.	.....	.....	1	.....	2	.....	.....	.....	.....	.....	..... clear.
S. S. City of New York, Sydney, N. S. W.†	30.23	767.8	69	20.6	90	ne.	.....	.....	1	.....	8	.....	ne.	0	0	.....	..... overcast.
S. S. City of Pekin, N. 14° 50′, W. 93° 30′†	29.95	760.7	80	26.7	91	wnw.	.....	.....	3	.....	8	.....	w.	.....	.....	sm'h	..... cloudy.
S. S. City of Rio de Janeiro, N. 9° 05′ W. 85° 34′*†	30.10	764.5	81	27.2	66	ne.	.....	.....	3	.....	4	.....	ne.	.....	.....	sm'h	se. clear.
S. S. City of Tokio, N. 35° 40′, E. 177° 39′†	30.19	766.8	56	13.3	81	nw.	.....	.....	6	.....	10	.....	nnw.	3 h'r	3 h'r	small	nw. cloudy.
S. S. Clyde, N. 13° 53′, W. 90° 49′†	29.99	761.7	81	27.2	83	nnw.	.....	.....	1	.....	2	.....	nw.	0	0	light	sw. clear.
S. S. Colon, N. 16° 19′, W. 75° 29′†	30.04	763.0	82	27.8	.....	ne.	.....	.....	4	.....	1	.....	ne.	0	0	small	ne. clear.
S. S South Carolina, Panama, Panama†	29.97	761.2	80	26.7	82	nw.	.....	.....	2	.....	2	.....	ne.	0	0	sm'h	..... fair.
S. S. Zelandia, N. 15° 32′, W. 160° 06′	30.09	764.3	77	25.0	95	ese.	.....	.....	5	.....	10	.....	e.	.....	.....	mod	se. cloudy.
QUEBEC STEAMSHIP COMPANY.																	
S. S. Muriel, St. Lucia, W. I	30.04	763.0	80	26.7	.....	ene.	.....	.....	2	.....	0	.....	.....	0	0	sm'h	..... fair.
S. S. Bermuda, N. 28° 25′, W. 66° 48′†	30.24	768.1	57	13.9	.....	nne.	.....	.....	3	.....	3	.....	n.	0	0	gentle	n. fine.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
RED STAR LINE.																		
S. S. Belgenland, Antwerp, Belgium†	30.09	764 3	48	8.9	92	sw.			5		7?		sw.	0	0			overcast.?
S. S. Rhynland, N. 40° 49′. W. 49° 30′†	29.91	759.7	44	6.7	68	wnw.			6		3		wnw.	0.2	5.	long	wnw.	fair.
S. S. Switzerland, N 49° 16′, W. 11° 01′†	29.88	758.9				sw.			5		10		sw.	0	0	long	s.	cloudy.
S. S. Vaderland, Antwerp, Belgium	29.85	758.2	53	11.7	86	w.			6		8		w.	0	0			hazy.
S. S. Waesland, N. 39° 33′, W. 49° 48′	29.99	761.7	48	8.9		nw.			5		8		nnw.	rain	rain	mod	wnw.	squally.
ROTTERDAM LINE.																		
S. S. Schiedam, New York, N. Y*.	29.84	757.9	56.7	13.7	83	sw.			5		6		sw.	0	0			cloudy.
STATE LINE.																		
S. S. State of Florida, Glasgow, Scotland	29.58	751.3	56	13.3		ssw.			5		10		sw.	sh'rs	sh'rs			cloudy.
S. S. State of Indiana, N. 45° 45′, W. 42° 30′†	29.24	742.7	41	5.0		nw.			6		6		nw.	4 h'r	4 h'r	cross	ne.	cloudy.
THINGVALLA LINE.																		
S. S. Thingvalla, N. 54° 50′, W. 27° 12′†	29.29	744.0	42.8	6.0		sw.			3		10		sw.	16 h'r	16 h'r	h'vy	sw.	covered.
WARREN LINE.																		
S. S. Iowa, N. 48° 36′, W. 27° 25′*†	29.80	756.9	48	8.9		sw.			7		2		wsw.	2 h'r	2 h'r	hv'y	wsw.	clear.
WHITE CROSS LINE.																		
S. S. Hermann, N. 45° 30′, W. 33° 18′†	29.47	748 5				sw.			9		10 n		sw.	h'vy	h'vy	hv'y	sw.	rainy.
WHITE STAR LINE.																		
S. S. Celtic, N 42° 08′, W. 54° 44′†	29.98	761.5	38	3.3		wnw.			5		10		wnw.	0	0	mod.	nw.	cloudy.
WILSON LINE.																		
S. S. Salerno, N. 49° 37′, W. 18° 03′*	29.64	752.8	56.1	13.4	78	sw.			6		4		sw.			high	sw.	d. clouds.
WINSOR LINE.																		
S. S. Catherine Whiting, Philadelphia, Pa.†	29.96	761.0				s.			1		hz.		sw.	0	0			
MISCELLANEOUS.																		
Schr. Abbe Clifford, N. 41° 20′, W. 69° 04′*†	29.93	760.2	54	12.2		e.			3		0			0	0	sm'h	s.	fine.
Sch. Addie Fuller, N. 32° 53′ W. 78° 34′†	30.14	765.5	66	18.9	92	sw.			3		10 8		sw.	0.23	5.8	r'gh	s.	cloudy.
Bk. Adelaide, Rio de Janeiro, Brazil*†	30.05	763.3	79	26.1		ne							ese.					clear.?
Schr. Ajax, Mobile, Ala†	30.02	762.5				w.			1		87		sw.	6 h'r	6 h'r			fair.
Bk. Alpha, Off Santiago de Cuba, Cuba, W. I†	29.98	761.5	80	26.7		nne.			1		0			0	0	sm'h		fair.
Schr Annie Lewis, N 28° 55′, W. 87° 02′†	30.11	764.8	79	26.1		ssw.			5		0			0	0	cross	ssw.	
Bk. Antioch, S. 38° 48′, E. 7° 00′*†	29.80	756.9	65	18.3		nw.			6		9		nw.	4 h'r	4 h'r	r'gh	nnw.	cloudy.
Schr Asa Eldridge, Havana, Cuba, W I.†	30.05	763.3				se.			3					0	0			fair.
Bk. Aureola, N. 1° 03′, W. 28° 35′*†	30.09	764.3	92	33.3		ese.			3		5		se.	0	0	mod.	se.	fair.
Schr. Annie M. Smull, S. 42° —′, E. 52° —′*†	29.50	749.3	55	12.8		nw.								2 h'r	2 h'r			
Bkt. Carrie Heckle, N. 19° 43′, W. 77° 50′″†	30.16	766.1	61	27.2		nne.			3		0			0	0	sm'h	se.	clear.
Bk. Celestina, S. 31° 16′, W. 46° 36′*†	29.86	758.4				wsw.			5		3		w.	4 h'r	4 h'r	r'gh	sw.	hazy.
Bk. Champion, N. 45° 30′; W. 27° 00′†	29.66	753.4				ssw.			7		2		w.	0	0	h'vy	sw.	
S. S. Compton, N. 23° 30′, W. 61° 20′†	30.13	765.3				ne.			3		9		nne.	0	0	sl't	nne.	cloudy.
S. Dora, N. 31° 30′, W. 77° 20′†	30.13	765.3	68.9	20.5		ssw.			7–8		10		sw.	2 h'r	2 h'r	mod.	se.	cloudy.
Bk. E. L. Pettingill, N. 34° 00′, W. 132° 23′†	30.40	772.1				sw.			3		8		w.	0	0	sm'h	nw.	foggy
S. Enoch Train, N. 41° 47′ W. 37° 26′*	29.52	749.8				w.			8		5?		wnw.	sh'rs	sh'rs	hv'y	con.	clear.?
S. Exporter, N. 3° 40′, W. 25° 30′*†	30.10	764.5				ene.			5		2		se.	0	0	long	ne.	fine.
S. Festina Lente, N. 40° 28′, W. 51° 10′*	30.02	762.5	45	7.2		nw.			6		8		nw.	4 h'r	4 h'r	mod.	wsw.	squally.
U.S.F.C.S.S. Fish Hawk, Quantico, Va†	30.02	762.5	59	15.0	87	se.			2		10		se.	0	0			cloudy.
S. Grecian, S. 41° 21′ E. 9° 38′*†	29.65	753.1	57	13.9		w.			6		3		w.	0	0	mod.	nw.	squally.
Bk. Freya, N. 41° 58′ W. 38° 46′			52	11.1		wsw.			9		5		wsw.	1 h'r	1 h'r	h'vy	w.	squally.
Bk. Granville, Algoa Bay, Africa*†	30.23	767.8				w.			3					0	0			clear.
Schr. Hattie G. McFarland, Baltimore, Md*†	29.88	758.9	56	13.3		nw.			1		10			0	0			hazy.
Schr. Henry Denison, N. 20° 00′, W. 74° 16′†	30.06	763.5				nne.			3–4		2		ne.	0	0	rg'h	ne.	fair.
S. Hedwig, N. 40° 26′, W. 50° 01′	29.96	760.9	45.5	7.5	73	nw.			8		7		nw.	2 h'r	2 h'r	4	nw.	stormy.
Schr. John L. Thomas, Morant Cays W. I.*†	30.10	764.5				ese.					2		se.	0	0			fine.
Bg. John Wesley, Sagua la Grande, Cuba, W. I.†	29.93	760.2	76	24.4		se			4		0			0	0			clear.
Bk. Jona, N. 45° 05′, W. 31° 30′*†	29.80	756.9				s.			7		10		w.	1 h'r	1 h'r	mod	var.	cloudy.
Bkt. Josephine, Aspinwall, Panama*†	30.04	763.0	82	27.8	70	n.			5		2		n.	½ h'r	½ h'r			fair.
Bk. Kate Cann, N. 49° 16′, W. 8° 32′*†	30.09?	764.3?				sw.			3		2		sw.	4 h'r	4 h'r	h'vy	wnw.	fine.
S. Lake Erie, N. 41° 26′, W. 43° 30′	29.66	753.4				w.			9		8		wnw.	sleet	sleet	h'vy	w.	squally.
Bk. Liberia, N. 12° 21′, W. 22° 17′*†	30.05	763.3	74	23.3	85	ne.			5		4		ne.	0	0			
Light House Tender, Laurel, Key West, Florida†	30.12	765 0	79	26.1		sse			2		6		sse.	0	0			fair.
Schr. Maggie Abbot, N. 23° —′, W. 70° —′*†	30.03	762.7				ene.								light	light		sse.	cloudy.
S. S. Malabar, N. 34° 21′ E. 21° 53′*†	29.85	758.2				w.			2					0	0			
Bg. Medina, Key Francis, W. I.†	30.23	767.8				se.			1		8		se.					fine.
S. S. Nebo, Santos, Brazil*†	29.78	756.4				nnw.			4		10			3 h'r	3 h'r			drizzling.
S. S. New York, Off Cape Palos, Spain*†	30.35	770.9				e.								0	0	sm'h		fair.
Bk Peppina, Pauillac, France†	30.19	766.8	63	17.2	61	s.			1		2		s.					fair.
S. S. Radnorshire, N. 51° 06′, E. 1° 22′*†	29.85	758.2				sw.			6		10		sw.	2 h'r	2 h'r			
S. Salisbury, N. 2° 05′ W. 26° 04′*	30.07	763.8	80.6	27.0	89	ese.			4		8		se.	1 h'r	1 h'r	mod.	ese.	cloudy.
Schr. S. B. Hubbard, N. 36° 40′, W. 75° 08′*†	30.09	764.3	48	8.9		ssw.			1		10			0	0		sw.	
Bkt. Spotless, S. 8° 21′, W. 33° 27′*†	30.00	762.0				se.										hv'y	sw.	fine.
Bk. Stella, S. 40° 49′, W. 80° 29′*	30.03	762.7	52.2	11.2	93	se.			5		5		se.	0	0	sm'h	s.	d. clouds.
S. Washington, N. 36° 23′, W. 52° 56′*†	30.03	762.7				w.			4		2		w.	0	0	r'gh	wnw.	fair.
Bg. Wauburn, N. 2° 11′, W. 37° 20′*†	30.00	762.0				ene.			6		8		ene.			short	ene.	
S. Wm. Woodbury, N. 40° 06′, W. 40° 08′*†	29.75	755.6	56	13.3		w.			9				w.			light	w.	squally.

International Chart I. April 19, 1882. Isobars and Isotherms.



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON APRIL 20, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours	.....	.....	30.24	768.2	73.0	22.8	87	ne.	.....	.....	4	.....	0	.....	.....	0	0	clear	Moiroud.
Algiers	.....	.....	30.25	768.3	64.4	18.0	65	ne.	.....	.....	1	.....	0	.....	.....	0	0	clear	Nicolas.
La Calle	.....	.....	30.17	766.2	63.7	17.6	80	nw.	.....	.....	4	.....	4	.....	.....	0.039	1.0	cloudy	Fonfrède.
Tunis	.....	.....	30.12	765.1	.....	.....	20	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.28	769.0	73.0	22.8	20	ne.	.....	.....	1	.....	0	.....	.....	0	0	clear	Dumas.
Tebessa	.....	.....	30.20	767.0	45.7	7.6	91	nw.	.....	.....	2	.....	2	.....	.....	0	0	fair	Derché.
Geriville	.....	.....	.....	.....	69.4	20.8	15	ne.	.....	.....	3	.....	0	.....	.....	0	0	clear	Louchamp.
Laghouat	.....	.....	30.26	768.5	69.4	20.8	47	nw.	.....	.....	1	.....	0	.....	.....	0	0	clear	Abraham.
Biskra	.....	.....	30.22	767.6	78.1	25.6	27	s.	.....	.....	1	.....	0	.....	.....	0	0	clear	Malau.
Australian.																			
Melbourne, Victoria	30.04	763.0	30.13	765.3	54.7	12.6	91	w.	5	2.2	.....	.....	2	.....	.....	0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.65	753.1	30.19	766.9	65.5	18.6	36	se.	.....	.....	3	.....	1	.....	.....	0	0	.....	Prof. Ivan Stozir. ,
Cracow, I. R Observatory	29.44	747.7	30.21	767.2	56.5	13.6	34	wsw.	3.8	1.7	.....	.....	3	.....	.....	0	0	.....	Dr. Wierzbiski.
Eperies	29.24	742.8	30.12	765.0	59.0	15.0	34	n.	.....	.....	2	4 cs	0	.....	.....	0	0	.....	Julius Mikolik.
Gratz	28.95	735.4	30.19	766.9	60.6	15.9	45	sw.	.....	.....	1	.....	0	.....	.....	0	0	.....	Andreas Rospini.
Hermannstadt	28.66	728.0	30.08	764.1	59.4	15.2	77	sw.	.....	.....	1	.....	10	.....	.....	0.126	3.2	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.81	731.7	30.13	765.4	59.7	15.4	54	ene.	.....	.....	1	.....	0	.....	.....	0	0	clear	The Staff.
Lemberg	29.13	739.8	30.11	764.9	55.4	13.0	33	n.	.....	.....	3	.....	1	.....	.....	0	0	.....	Dr. T. Stanecki.
Pola	30.05	763.3	30.16	766.1	62.2	16.8	48	wnw.	.....	.....	2	.....	2	.....	.....	0	0	.....	I. R. Hydrographic Office.
Szathmar	29.63	752.5	30.09	764.2	67.6	19.8	49	nw.	.....	.....	3	.....	2	.....	.....	0	0	.....	Joseph Midlinszky, S. J.
Szegedin	29.83	757.6	30.10	764.6	63.0	17.2	50	nw.	.....	.....	1	.....	6	.....	.....	0	0	.....	Karl Stancel.
Trieste	30.07	763.7	30.17	766.3	68.0	20.0	29	ne.	.....	.....	1	.....	0	.....	.....	0	0	.....	Rieder.
Vienna	29.48	748.9	30.10	767.0	60.8	16.0	34	ene.	.....	.....	1	.....	1	.....	.....	0	0	.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.66	753.4	29.76	755.9	56.5	13.6	41	w.	19	8.5	.....	.....	4	.....	.....	0	0	blue sky	W. Boswell.
Armagh, Observatory	29.73	755.1	29.96	761.0	56.0	13.3	62	sw.	17	7.6	.....	.....	5	.....	.....	.....	.....	d. clouds	S. Call.
Bidston, Liverpool Obs'y	.....	.....	30.01	762.2	55.0	12.8	73	wsw.	33	14.8	.....	.....	1	.....	.....	.....	.....	blue sky	John Hartnup.
Bolton, Sharples	29.46	748.3	29.99	761.7	52.1	11.2	72	wsw.	30	13.4	.....	.....	8	.....	.....	.....	.....	d. clouds	Thomas Mackereth. [A.S.
Bradford, Yorkshire	29.55	750.6	29.95	760.7	54.8	12.7	66	sw.	.....	.....	3	.....	4	.....	.....	0	0	d. clouds	J. McLandsborough, F. R
Bridgetown, Barbadoes	30.02	762.5	30.05	763 3	84.0	28.9	67	ne.	.....	.....	2	.....	3	.....	.....	.....	.....	d. clouds	Corpl. J. Surgenor, A. H.C.
Cardington	.....	.....	30.03	762.7	63.0	17.2	57	nw.	.....	.....	4.0	.....	6	.....	.....	.....	.....	d. clouds	John McLaren.
Chatham, School M. E.	29.96	761.0	30.09	764.3	59.8	15.4	53	w.	.....	.....	1	.....	7	.....	.....	.....	.....	d. clouds	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	30.00	762.0	30.23	767.8	57.7	14.3	67	w.	.....	.....	3	.....	4	.....	.....	.....	.....	d. clouds.	The Staff.
Fort Napier, Natal	27.52	699.0	29.74	755 4	85.2	29.6	35	n.	.....	.....	3	.....	1	.....	.....	.....	.....	blue sky	Pvt. E. K. Annis, A. H.C.
Free Town, Sierra Leone	29.68	753.9	29.91	759.7	89.0	31.7	66	sw.	.....	.....	1	.....	5	.....	.....	.....	.....	d. clouds	Sergt. John Robinson.
Gibraltar, Mediterranean	30.18	766.6	30.23	767.8	70.6	21.4	71	e.	.....	.....	2	.....	3	.....	.....	.....	.....	blue sky	Opl. O. Baldwin.
Glasgow, Observatory	29.65	753.1	29.86	758.4	55.0	12.8	65	wsw.	.....	.....	4	.....	5	.....	.....	.....	.....	d clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.92	760.0	30.09	764.3	61.1	16.2	57	wnw.	.....	.....	4	.....	4	.....	.....	.....	.....	blue sky	The Staff.
Guernsey	29 96	761.0	30.26	768.6	56.5	13.6	80	nw.	.....	.....	2	.....	2	.....	.....	.....	.....	blue sky	A. Collenette, F. M. S.
Kew, Observatory	30.07	763.8	30.10	764.5	59.1	15.1	48	w.	20	8.9	.....	.....	5	.....	.....	.....	.....	d. clouds	The Staff.
Leicester, Museum	29.76	755.9	30.02	762.5	59.2	15.1	52	w.	.....	.....	4	.....	4	.....	.....	.....	.....	d. clouds	J. C. Smith.
Malta, Mediterranean	29.85	758.2	29.92	760.0	66.0	15.6	76	ne.	.....	.....	3	.....	4	.....	.....	.....	.....	d. clouds	I. H. Whysall.
Nassau, Bahamas	30.02	762.5	30.07	763.8	80.0	26.7	70	s.	.....	.....	2	.....	8	.....	.....	.....	.....	d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.53	750.0	30.05	763.3	58.1	14.5	55	w.	.....	.....	3	.....	6	.....	.....	.....	.....	d. clouds	John Mac Email.
Oxford, Radcliffe Obs'y	29.86	758.4	30.09	764.3	58.8	14.9	57	w.	.....	.....	5	.....	5	.....	.....	.....	.....	squally	The Staff.
Plymouth	30.12	765.0	30.20	767.1	60.0	15.6	68	wsw.	.....	.....	2	.....	8	.....	.....	.....	.....	d. clouds	John Merrifield.
Sandwick Manse, Orkneys	.....	.....	29.67	753.6	49	9.4	77	wsw.	28	12.5	.....	.....	0	.....	.....	.....	.....	blue sky	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	30.01	762.2	30.08	764.0	64.6	18.1	56	ne.	.....	.....	2	.....	8	.....	.....	.....	.....	misty	W. H. Lyne.
Sheffield	29.73	755.1	30.01	762.2	58.9	14.9	61	wnw.	.....	.....	5	.....	1	.....	.....	0	0	blue sky	W. F. Cooper.
Silloth Rectory	29.89	759.2	29.92	760.0	54.0	12.2	80	w.	.....	.....	4	.....	5	.....	.....	0	0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	30.00	762.0	52.5	11.4	72	w.	30	13.4	.....	.....	8	.....	.....	.....	.....	d. clouds	Rev. S. J. Perry.
Straifield Turgiss	.....	.....	.....	.....	61.2	16.2	68	w.	.....	.....	4	.....	4	.....	.....	.....	.....	d. clouds	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	30.24	768.1	30.27	768.8	61	16.1	66	w.	.....	.....	6	.....	4	.....	.....	.....	.....	d. clouds	W. Newcombe.
Valencia, Observatory	30.05	763.3	30.07	763.8	56.0	13.3	71	sw.	38	17.0	.....	.....	8	.....	.....	.....	.....	misty	The Met'g'l Office.
Canadian.																			
Bathurst, N. B	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.71	754.6	29.75	755.6	33	0.6	88	se.	30	13.4	.....	.....	1c n	.....	calm	0.100	2.5	light sleet	H. J. Cundall, C. E.
Chatham, N. B*	29.66	753.4	29.73	755 1	33	0.6	92	e.	14	6.3	.....	.....	10 n	.....	e.	0.16	4.1	heavy snow	G. A. Blair.
Father Point, Quebec*	29.52	749.8	29.54	750.3	34	1.1	96	ne.	17	7.6	.....	.....	10 n	.....	.....	0.11	2.8	sleeting	J. McWilliams.
Fort Garry, Manitoba*	29.03	737.3	29.88	758.9	30	— 1.1	88	s.	8	3.6	.....	0	0	.....	.....	0	0	clear	James Stewart.
Halifax, N. S*	29.55	750.6	29.68	753 9	34	1.1	100	ne.	30	13.4	.....	.....	10 n	.....	e.	0.400	10.2	heavy rain.	A. Allison.
Kingston, Ontario*	28.84	732.5	29.18	741.2	43	6.1	93	sw.	16	7.2	.....	.....	10 n	.....	sw.	0.41	10.4	light rain	A. P. Knight, M. A.
Montreal, Quebec*	28.98	736.1	29.19	741.4	36	2.2	100	ne.	.....	.....	.....	.....	10 n	.....	.....	0.41	10.4	light rain	C. H. McLeod, C. E.
Parry Sound, Ontario*	28.51	724.1	29.11	739.4	38	3.3	100	ne.	8	3.6	.....	.....	10 n	.....	.....	0.39	9.9	light rain	Rev. R. Mosley.
Port Dover, Ontario	28.69	728.7	29.38	746.2	41	5.0	93	w.	18	8.0	.....	.....	10 n	.....	.....	0.65	16.5	threatening	H. Morgan.
Port Stanley, Ontario	28.78	731.0	29.43	747.5	40	4.4	82	w.	20	8.9	.....	.....	10 n	.....	w.	0.74	18.8	cloudy	M. Payne.
Quebec, Quebec*	28.98	736.1	29.31	744.5	33	0.6	88	ne.	.....	.....	6	.....	1c n	.....	ne.	0.27	6.9	cloudy	Capt. Ashe, R. N.
Rockliffe, Ontario*	28.71	729.2	29.16	740.7	39	3.9	86	ne.	8	3.6	.....	.....	10 s	.....	ne.	0.73	18.5	light rain	W. H. McIntyre.
Saugeen, Ontario*	28.59	726.2	29.34	745.2	35	1.7	89	w.	13	5.8	.....	.....	fg	.....	.....	0.49	12.4	light rain	
St. Andrews, N. B	29.25	742.9	29.30	744.2	37	2.8	97	se.	37	16.5	.....	.....	10 n	.....	.....	0.50	12.7	heavy rain	
Sydney, C. B*	29.98	761.5	30.04	763.0	32	0.0	81	se.	9	4.0	.....	.....	10 s	.....	.....	0	0	cloudy	T. C. Hill, C. E.
Toronto, Ontario*	28.90	734.0	29.29	744.0	43	6.1	74	sw.	25	11.2	.....	.....	10 ks	.....	nw.	0.56	14.2	threatening	Magnetic Observatory.
Yarmouth, N. S*	29.22	742.2	29.29	744.0	47	8.3	96	se.	19	8.5	.....	fg.	fg.	.....	.....	1.35	34.3	light rain	Lt. F. E. Wilmot, R. N.
Sub-series.																			
St. Johns, Newfoundland	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	29.91	759.7	29.94	760.5	67.0	19.4	88	w.	9.4	4.2	.....	0	7 s	.....	.....	0.060	1.5	.....	John Duthie.
Cape Town, O. G. H. Obs'y	29.97	761.2	30.01	762.2	63.0	17.2	94	wnw.	9	4.0	.....	10	10	.....	.....	0	0	.....	The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Chinese (*Sub-series*).																			
Hankow																0	0		N. Titoushkin.
Zi-Ka-Wei, near Shanghai.	29.87	758.7	29.89	759.3	61.0	16.1	92	W.	2.7	1.2			2			0.374	9.5	clear	M. Marc Dechevrens, S.J.
Danish.																			
Copenhagen	29.85	758.1	29.89	759.3	56.3	13.5	77	sw.	19.0	8.5			1c						Oversergent Fischer.
Fanöe	29.82	757.3	29.84	757.8	51.1	10.6	92	sw.			4		10						Overloerer Lauridsen.
Godthaab, Greenland	29.78	756.3	29.82	757.4	25.0	— 3.9	87	nw.			2		10						S. Kleinschmidt.
Stykkisholm, Iceland	29.56	750.9	29.61	752.0	34.9	1.6	89	e.			6		0						A. O. Thorlacius.
Thorshavn	29.48	748.8	29.52	749.7	42.1	5.6	82	ne.	11.	5			10					raining	Overloerer Bergh.
Vestervig	29.66	753.3	29.75	755.6	47.1	8.4	97	ssw.			6		1c						Loerer Oesterbol.
French.																			
Agen, Normal School	29.66	753.3	30.30	769.6	65.1	18.4	78	calm			0	c; ck	0	w.		0	0		M. Labroue, Director.
Alençon, Normal School	29.74	755.5	30.30	769.5	58.6	14.8	76	sw.			3			n.	e.	0	0		M. Nicot, Director.
Arras, Engineer School	29.87	758.7	30.13	765.2	55.4	13.0	68	nw.			6				nw.	0	0		Capt. Bertrand, Dir.
Avginon, Normal School	30.12	765.0	30.20	767.0	71.6	22	43	n.			1		5		n.	0	0	cloudy	M. Giraud, Director.
Bar-sur-Seine	29.69	754.0	30.24	768.1	60.4	15.8	61	sw.			1		8			0	0	very cloudy.	M. Saillard, Director.
Beauvais, Normal School	29.95	760.7	30.21	767.4	59.9	15.5	61	nw.			3		5		nw.	0	0	cloudy	M. Frère Eugène Marl.
Besançon, Normal School	29.30	744.1	30.19	766.8	63.5	17.5	55	sw.			1	0	8 cn	w.		0	0	very cloudy	M. Gobin, Director.
Bordeaux, Observatory	30.04	763.0	30.30	769.6	64.8	18.2	60	nw.			1		5			0	0	cloudy	M. Rayet, Director.
Bourges, Normal School	29.72	755.0	30.28	769.0	61.9	16.6	66	w.			1	c	0	w.		0	0		M. Postel, Director.
Brest, Naval Observatory	30.07	763.7	30.31	769.9	65.5	18.6	69	nw.			2	0	4 k		nw.	0.031	0.8		M. de Kermaree, Dir.
Caen, Normal School	30.16	766.0	30.23	767.8	63.7	17.6	50	nw.			1		5		nw.	0	0	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.84	757.9	30.15	765.9	58.5	14.7	74	sw.			2		10			0	0	covered	M. Jadot, Director.
Charleville, Normal School	29.65	753.2	30.17	766.4	56.5	13.6	69	w.			1		10		e.	0	0	covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.90	734.0	30.22	767.6	69.4	20.8	49	ne.			1		5			0	0	½ covered	M. Allnard, Director.
Cluny, Normal School	29.42	747.3	30.26	768.7	63.7	17.6	35	w.			2			w.		0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.34	745.3	30.21	767.4	61.3	16.3	49	w.			1		5 cn	w.	w.	0	0	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.66	702.5	30.15	765.7	66.2	19	38									0	0		M. Jeangirard, Director.
Gréasque, du. Rhone	29.08	738.5	30.17	766.3	71.4	21.9	24	w.			2		2		sw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.47	748.6	30.23	767.8	67.3	19.6	45	nne.			4		10			0	0	covered	M. Ablard, Director.
Guéret, Normal School	28.67	728.1	30.24	768.2	59.7	15.4	66	sw.			1		k		sw.	0	0		M. Rivoire, Director.
Lamballe, Normal School	30.00	762.1	30.27	768.9	62.6	17	61	nnw.			1		5		nnw.	0.063	1.6	cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.75	755.7	30.32	770.0	63.3	17.4	65	w.			1		5			0	0	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	30.21	767.4	30.32	770.0	67.1	19.5	60	wsw.			1		2	w.	n.	0	0	¼ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.22	742.3	30.28	769.0	63.5	17.5	48	ese.			1	10 c	0			0	0	covered	M. André, Director.
Mans, Normal School	29.95	760.7	30.26	768.5	59.9	15.5	52	nw.			3		2		nw.	0	0	slightly cl'dy	M. Piboen, Director.
Marseille, Observatory	29.93	760.1	30.19	766.9	71.8	22.1	41	wnw.			1.2		5		wnw.	0	0		M. Stephan, Director.
Montlouis l'instituteur	25.06	636.5	29.90	759.5	52.3	11.3	39	w.	3.8	1.7			2						M. Cave, for Dr. Fines.
Montpellier, Normal School	30.04	763.0	30.17	766.2	74.5	23.6	46	n.			1		5			0	0	cloudy	M. Galzin, Director.
Nancy, Normal School	29.41	747.0	30.18	766.6	65.1	18.4	47	ssw.			1	0	8 kn			0	0	very cloudy.	M. Hasse, Director
Nantes, Observatory	30.16	766.1	30.32	770.2	65.8	18.8	50	n.			1-2	0	1 k		n.	0	0		M. Larocque, Director.
Perpignan, Observatory	30.13	755.4	30.24	768.1	74.3	23.5	35	ne.	22.4	10.0			8	nw.		0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.46	545.0			38.1	3.4		s.			1		5	nw.	s.	0	0	cloudy	Gen'l de Nansouty, Dir.
Privas, Normal School	29.10	739.2	30.19	766.9	64.8	18.2	51	calm			0		2			0	0	slightly cl'dy	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.40	645.1			45.3	7.4	75	nw.			4		8			0	0	¾ covered	M. Alluard, Director.
Rochefort, Naval Obs'y	30.29	769.3	30.32	770.1	67.3	19.6	81	wnw.			1		5	w.	n.	0	0	⅛ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	30.08	764.0	30.29	769.4	66.6	19.2	51	nw.			1		0			0	0	clear	M. Mouillot, Director.
Rodez, Normal School	28.13	714.5	30.28	769.1	58.6	14.8	68	nw.			1		0			0	0	clear	M. Serger, Director.
Rouen, Normal School	30.17	766.4	30.22	767.6	60.8	16	61	w.			1		5	w.		0	0	cloudy	M. Brotier.
Saint Maur, Observatory	30.06	763.6	30.23	767.8	60.1	15.6	54	wnw.			2		7		wnw.	0	0		M. Renou, Director.
Toulouse, Observatory	29.62	752.3	30.35	770.8	66.2	19.0	69	W.			1		5	w.		0	0	cloudy	M. Baillaud, Director.
Versailles, Observatory	29.74	755.4	30.23	767.9	60.1	15.6	45	w.			3					0	0		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.94	760.4	30.23	767.8	62.1	16.7	48	w.			3		7		wnw.	0	0		M. Marié Davy, Director
German.																			
Bamberg	29.30	744.1	30.15	765.9	63.7	17.6	50	w.			2	0	5s; k		w.	0	0		Prof. Dr. Hoh.
Berlin	29.87	758.7	30.04	763.1	60.9	19.4	52	w.			5		4			0.008	0.2		Prof. Dr. Arndt.
Breslau	29.64	752.9	30.18	766.5	61.0	16.1	31	s.			2		2	wnw.		0	0		Royal University Obs'y.
Carlsruhe	29.73	755.2	30.17	766.3	64.9	18.3	44	sw.			2		9	s.		0.008	0.2		Albert Senz.
Cassel	29.31	744.4	30.02	762.5	67.3	19.6	42	sw.			4		6	sw.		0.008	0.2		Dr. H. Mohl.
Frankfort on the Main	29.75	755.6	30.11	764.7	67.5	19.7	43	sw.			2		5			0	0		Physical Society.
Friedrichshafen	28.77	730.7	30.21	767.3	50.1	13.4	53	sw.			2		3	e.		0	0		Wilhelm, Chief Tel.
Hamburg	29.87	758.7	29.97	761.1	64.4	18.0	61	wsw.			5		6			0	0		E. Preller.
Kiel	29.91	759.6	29.92	760.0	61.7	16.5	50	sw.			5		7			0.035	0.9		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.67	753 7	30.08	764.1	67.3	19.6	34	s.			3		3			0	0		H. Leppig, Asst.
Magdeburg	29.85	758.3	30.04	763.0	68.9	20.5	42	ssw.			1	7 c; ck	0	wsw.		0.039	1.0		Dr. Assmann.
Memel	30.00	762.1	30.05	763.3	44.4	6.9	87	s.			3		10						Issermann.
Munich	28.34	719.8	30.21	767.4	60.6	15.9	28	calm			0		1			0.004	0.1		Central Station.
Neufahrwasser	30.00	762.1	30.02	762.5	58.1	14.5	63	sw.			3		10			0.004	0.1		A. Lothes.
Neustadt, Palatinate	29.60	751.7	30.12	765.1	63.7	17.6	52	s.			4		5	s.		0	0		Dicknether.
Stuttgart	29.20	741.7	30.08	763.9	65.8	18.8	33	W.			1		7	W.		0.016	0.4		Prof. Dr. Schoder.
Wustrow	29.95	760.6	29.97	761.2	56 3	13.5	73	sw.			3		10 s			0.102	2.6		Profs. Brandes & Reimer.
Greek.																			
Athens	29.66	753.4	30.05	763.2	68.4	20.2		sw.			1.5	8				0	0		Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.72	754.9	29.77	756.1	86.0	30.0	30	wsw.	30.0	13.4			0			0	0	misty	
Deesa	29.19	741.5	29.65	753.0	97.6	36.4	20	wsw.	9.9	4.4			0			0	0	misty	
Bombay	29.72	754.9	29.76	755.8	83.4	28.6	77	nw.	22.0	9.8			0			0	0	blue sky	
Poona, Yarrowda	27.85	707.4	29.64	752.8	96.8	36.0	19	w.	29.0	13.0			2	w.		0	0	d. clouds	
Belgaum	27.21	691.2	29.70	754.4	84.3	29.1	56	sw.	11.0	4.9			2	s.		0	0	misty	
Lahore	28.74	730.1	29.46	748.2	95.2	35.1	5	W.	3.9	1.7			8			0	0	d. clouds	
Roorkee	28.70	729.1	29.57	751.0	97.9	36.6	13	sw.	4.4	2.0			3			0	0		
Agra	29.03	737.4	29.57	751.0	105.4	40.8	11	W.	2.2	1.0			0			0	0		
Nagpur	28.59	726.2	29.59	751.5	102.7	39.3	19	s.	6.1	2.7			7		sw.	0	0	d. clouds	
Jubbulpore	28.41	721.6	29.71	754.6	101.5	38.6	14	calm	3.2	1.4			4		e.	0	0	d. clouds	
Lucknow	29.25	742.9	29.61	752.0	105.4	40.8	24	calm	1.8	0.8			6			0	0	blue sky	
Allahabad	29.31	744.4	29.61	752.0	100.4	38.0	22	calm	1.0	0.4			0			0	0	blue sky	
Patna	29.47	748.6	29.65	753.1	98.5	36.9	30	ne.	3.5	1.6			4	ne.	ne.	0	0	d. clouds	
Hazaribagh	27.68	703.0	29.61	752.1	95.8	35.4	24	nw.	8.7	3.9			4		se.	0	0		
Cuttack	29.63	752.5	29.71	754.6	91.3	32.9	48	s.	4.8	2.2			0			0	0	blue sky	
Calcutta, Alipore	29.69	754.2	29.71	754.7	88.2	31.2	52	calm	0	0			1		sw.	0	0	d. clouds	
Dhubri	29.63	752.7	29.75	755.7	78.4	25.8	80	ene.	7.4	3.3			1			0	0	d. clouds	
Chittagong	29.67	753.6	29.76	755.9	82.5	28.1	79	W.	2.6	1.2			0			0	0	blue sky	
Sibsagar	29.42	747.3	29.76	755.8	80.5	26.9	81	sw.	1.6	0.7			10	W.	W.	0	0	d. clouds	
Jeypore	28.19	716.0	29.57	751.1	98.9	37.2	12	wnw.	5.0	2.2			6		W.	0	0	d. clouds	
Zanzibar, Africa	29.89	759.2			84.5	29.2	74	s.					7		sse.	0.07	1.8	d. clouds	
Bellary	28.21	716.5			98.6	37.0	18	nw.	5.4	2.4		4 ck	6			0	0	gloomy	
Trichinopoly	29.48	748.8			94.5	34.7	35	ene.	1	0.4			10			0	0	overcast	
Italian.																			
Udine	29.78	756.4	30.19	766.8	66.7	19.3	62	e.	1.8	0.8			0			0	0		Prof. Giovanni Clodig.
Milan	29.70	754.3	30.17	766.4	66.2	19.0	43	e.	6.3	2.8			1			0	0		Prof. Schiaparelli.
Padua	30.10	764.6	30.21	767.4	63.1	17.3	35	ese.	6.9	3.1			0			0	0		Prof. Dott. Lorenzoni.
Monsalieri	29.28	743.7	30.18	766.5	65.3	18.5	36	wsw.	2.5	1.1			3	nw.		0	c		Prof. P. F. Denza.
Genoa	29.98	761.4	30.17	766.2	67.5	19.7	51	sw.	1.8	0.8			0			0	0		Prof. G. M. Garibaldi.
Mondovi	28.28	718.2	30.19	766.8	61.3	16.3	36	W.			4		0			0	0		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
ITALIAN.—Continued.																			
Pesaro	30.15	765.7	30.19	766.9	59.4	15.2	57	n.	12.5	5.6			0			0	0		Prof. Luigi Guidi.
Florence	29.89	759.1	30.14	765.5	69.4	20.8	26	ne.			4		0			0	0		Prof. Costantino Pitter.
Leghorn	30.01	762.2	30.10	764.4	66.6	19.2	52	nw.	3.8	1.7			0			0	0		Prof. P. Monte.
Rome	29.90	759.4	30.07	763.8	72.1	22.3	33	nnw.	4.3	1.9			0			0	0		Prof. P. S. Ferrari.
Lecce	29.83	757.6	30.08	764.0	62.6	17.0	69	n.	6.3	2.8			3	n.		0.476	12.1		Prof. C. de Giorgi.
Cosenza	29.14	740.2	30.03	762.7	55.4	13.0	73	wnw.	5.6	2.5			9	w.		0	0		Prof. D. Conti.
Cagliari	29.91	759.6	30.10	764.5	70.2	21.2	39	nw.			2		1			0	0		Prof. A. Pacinotti.
Palermo	29.84	757.8	30.08	764.1	60.4	15.8	62	nne.	6.9	3.1			6			0.362	9.2		Prof. G. Cicciatore.
Syracuse	29.88	759.0	29.93	760.1	58.8	14.9	77	ne.	18.6	8.3			8	nne.		0.157	4.0		Prof. Vincenzo Guiliano.
Sub-series.																			
Naples, S. R	29.54	750.4	30.06	763.4	66.7	19.3	52	ne.	8.1	3.6			5	se.		0	0		Prof. T. Brioschi.
Stelvio	22.31	566.6			36.0	2.2	56	sw.			1		0			0	0	misty	Prof. P. F. Denza.
Valdobbia	22.35	567.6			40.6	4.8	52	e.			2		0			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Aomori	30.06	763.5	30.09	764.3	46.8	8.2	87	s.	8.8	3.9		0	3 s			0	0	fair	K. Ogawa.
Hakodate	30.03	762.7	30.04	763.0	48.0	8.9	71	nnw.	7.4	3.3			0			0	0	clear	
Hiroshima, I. M. Obs'y	30.03	762.7	30.05	763.3	59.6	15.3	81	nw.	1.8	0.8		8ck;cs	0			0	0	cloudy	K. Sasaki.
Kanazawa	30.01	762.2	30.11	764.8	54.5	12.5	66	ese.	9.3	4.2		0	0			0	0	clear	S. Endo.
Kioto	29.94	760.5	30.11	764.8	55.0	12.8	80	s.	2.8	1.3		0	0			0	0	clear	M. Tojima.
Kochi	30.12	765.0	30.14	765.5	62.0	16.7	76	e.	3.5	1.6		ck	6 s		se.	0.006	0.2	fair	
Nagasaki, I. M. Obs'y	29.86	758.4	30.06	763.5	61.9	16.6	81	se.	4.9	2.2			10			0.040	1.0	light rain	S. Takehayashi.
Niigata	30.08	764.0	30.11	764.8	47.7	8.7	92	calm	0	0		0	0			0	0	clear	
Nobiru	30.06	763.5	30.08	764.0	47.6	8.7	95	ssw.	3.3	1.5		0	0			0	0	clear	H. Midzushima.
Sapporo					42.7	5.9	72	calm	0	0			2			0	0	clear	
Tokei Obs'y, Yeddo	30.04	763.0	30.10	764.5	55.0	12.8	94	s.	4.0	1.8		0	0			0	0	clear	The Staff.
Wakayama	30.06	763.5	30.11	764.8	62.9	17.2	69	s.	3.5	1.6		0	0			0	0	clear	Y. Kuwamura.
MAURITIUS.																			
Mauritius Observatory	29.80	756.9	29.99	761.7	80.0	26.7	69	se.	14.0	6.3		2ck;cs	6 k;n		se.	0.20	5.1	fair	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.70	602 1	29.93	760.1	61.0	16.1	51	se.				0	1 s		w.	0	0	foggy	Vicente Fernandez.
Leon	24.42	620.3	30.06	763.5	61.9	16.6	62	n.			1	5 c	0	sw.		0	0		Prof. M. Leal.
Mazatlan	29.71	754.7	29.98	761.4	69.0	20.6	54	nw.	1.6	0 8		5 cs	0	sw		0	0	fair	F. Quijano, U. E.
Mexico, Central Obs'y	23.14	587.7	30.23	767.8	53.4	11.9	69	calm	0	0		4 c	0	s.		0	0	foggy	The Staff.
Morelia	24.30	617.1	30.43	772.8	60.3	15.7	73	se.			3	1	2	s.	s.	0	0	clear	M. Tena, M. D.
Pabellon, Aguascalientes	24.00	609.6	29.96	761.0	61.3	16.3	62	wsw.			1	3 cs	0	ssw.		0	0	clear	M. Y. de Leon, M. E.
Puebla, Catholic Institute	23.42	594.8	30.17	766.3	54.0	12.2	83	calm	0	0		0	2		ne.	0	0	clear	Prof. P. Spina.
San Luis Potosi	24.20	614.7	30.15	765.9	62.6	17.0	43	sw.			1	7	0	w.		0	0	cloudy	G. Barroeta, M. D.
Zacatecas	22.59	573.7	30.22	767.6	56.2	13.5	56					2 cs	0	w.		0	0	clear	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.08	763.9	30.08	763.9	55.2	12.9		wsw.			5					0	0		
Groningen	29.87	758.7	29.93	760.1	54.7	12.6		ssw.			5					0	0		
Helder	29.89	759.1	29.89	759.1	50.5	10.3		sew.			5					0	0		
Hellevoetsluis	30.00	762.0	30.00	762.0	53.2	11.8	83	wsw.			4					0	0		
Utrecht	29.96	760.9	30.00	762.1	53.8	12.1	88	ssw.			4		10			0.004	0.1	raining	H. van der Brink.
NORWEGIAN.																			
Bergen	29.54	750.3	29.60	751.9	50.4	10.2	87	s.	11	5			10			0.591	15.0	raining	
Brono	29.32	744.8	29.36	745.8	37.0	2.8	82	ne.	9	4			10			0.110	2.8		
Christiania	29.48	748.9	29.63	752.6	44.2	6.8	91	w.	0	0			10			0.063	1.6	raining	
Gjæsvær	29.52	749.9	29.55	750.5	36.0	2.2		s.	4	2			10						
Lodingen	29.45	747.9	29.49	749.1	38.7	3.7	73	calm			0		9						
PORTUGUESE.																			
Angra, Azores					62.2	16.8	85	nw.	11.9	5.3			5			0	0		Dr. J. A. Sampaio.
Campo Major	29.19	741.3	30.15	765.8	79.7	26.5	35	ssw.	2.5	1.1			7			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.17	766.4	30.26	768.6	66.0	18.9	70	se.					0			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.88	759.0	30.24	768.1	66.7	19.3	63	s.	6.3	2.8			2	sw.		0	0		The Staff.
Ponta Delgada, Azores	30.13	765.3	30.20	767.1	66.9	19.4	77	s.	3.1	1.4			3			0	0		
Saint Paul de Loando	29.73	755.2	29.93	760.3	74.1	23.4	93	wsw.	0.7	0.3			10			2.476	62.9		
Serra da Estrella	25.48	647.3	30.13	765.4	59.4	15.2	51	s.	8.1	3.6			7			0	0		
RUSSIAN.																			
Akmolinskl	28.69	728.6	29.78	756.5	37.8	3.2	80	ssw.	16	7		5 c	0			0.063	1.6	light clouds	Major K. Lasarew.
Archangel	30.07	763.8	30.09	764.3	29.5	— 1.4	68	s.	9	4		0	0			0	0		Capt. Sseliwerstow.
Astrakhan	30.15	765.7	30.06	763.6	55.0	12.8	44	nne.	13	6			9 s			0	0	light clouds	Capt. Wisganow.
Barnaul	29.49	749.0	29.98	761.6	55.6	13.1	45	calm	0	0			0			0	0		Meteorological Obs'y.
Dorpat	29.72	754.9	29.97	761.2	46.0	7.8	85	sw.	4	2			10 n			0.047	1.2	light rain	Observatory.
Ekaterinburg	28.63	727.3	29.64	752.9	21.4	— 5.9	85	n.	11	5			10			0.039	1.0	snowing	Meteorological Obs'y.
Kasan	29.78	756.4	30.05	763.6	31.8	— 0.1	47	nnw.	16	7			0			0	0		Observatory.
Kertch	29.91	759.7	29.93	760.2	46.0	7.8	94	ne.	13	6			10 n			0.063	1.6		Lagorio & Sastyrez.
Kieff	29.40	746.8	30.04	763.0	53.1	11.7	53	s.	9	4		cs	10ks;n			0.012	0.3	raining	Observatory.
Lugan	29.82	757.4	30.02	762.7	59.7	15.4	28	ese.	18	8			4			0	0		Meteorological Obs'y
Moscow	29.61	752.2	30.10	764.5	45.5	7.5	44	ssw.	4	2		0	7 ks			0	0		Meteorological Obs'y.
Nikolaiev	30.04	763.0	30.11	764.8	61.2	16.2	42	ne.	4	2		0	0			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor	29.99	761.7	30.08	763.9	31.6	— 0.2	83	calm	0	0			10			0.087	2.2		Lieut. Iwanow.
Pekin, China	29.78	756.4	29.92	760.0	65 3	18.5	28	calm	0	0		0	1 k			0	0		Physical Observatory
St. Petersburg	29.93	760.1	29.94	760.5	50.7	10.4	41	sse.	16	7		ck	8 s;n			0.059	1.5		Central Physical Obs'y
Ssemipalatinsk	29.31	744.4	29.96	760.9	59.7	15.4	41	calm	0	0		0	7			0	0		Major Lasaren.
Tashkend, Laboratory	28.50	724.0	30.06	763.6	66.8	19.0	74	calm	0	0			0			0	0		Teich, A. M.
Tiflis	28.46	722.9	29.85	758.2	64.0	17.8	52	nw.	45	20			10			0.004	0.1		Physical Observatory
Vladivostok	29.92	760.0	29.99	761.7	39.2	4.0	92	s.	7	3			10 k			0	0		
Warsaw	29.52	749.9	29.95	760.6	55.9	13.3	38	wsw.	11	5		ck	8 ks						Astronomical Obs'y
Wilna	29.65	753.2	30.08	764.1	43.9	6.6	90	w.	4	2			10			0	0	heavy cl'ds	Berg, Assistant.
Yeniseisk	29.69	754.2	29.98	761.6	42.8	6.0	76	ene.	4	2			6			0.004	0.1		M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	30.11	764.8	30.21	767.4	65.7	18.7	62	s.	2.0	0.9		4 c	0			0	0		Antonio Rave, Director.
Bilbao, Met. Obs'y	30.30	769.6	30.36	771.1	66.6	19.2	67	n.	1.8	0.8			10			0	0	covered	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.30	693.3	30.22	767.7	62.6	17.0	54	ne.	4.3	1.9			1			0	0	almost clear	Domingo Martin.
Madrid, Royal Obs'y	27.98	710.6	30.12	765.0	78.8	26.0	31	se.	6.0	2.7		0	8			0	0	cloudy	The Staff.
Murcia, Met. Obs'y	30.08	763.9	30.22	767.6	75.0	23.9	45	ene.	2.0	0.9		4	4	ssw.		0	0	cloudy	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.26	743.2	30.15	765.8	65.8	18.8	57	e.	1.3	0.6			10			0	0	covered	R. Gil Vallanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I	29.94	760.5	30.01	762.2	77.0	25.0	80	sse.	3.1	1.4		0	0			0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.80	756.8	29.85	758.3	82.4	28.0	77	e.	6.8	3.0		0	1 ks			0	0	clear	F. Faura, S. J.
San Fernando, Naval Obs'y	30.12	765.0	30.21	767.4	78.3	25.7	31	e.	6.8	3.0		4	4	e.	e.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	30.02	762.5	30.11	764.8	78.1	25.6	89	se.	8.5	3.8		4 cs	3 k	se.	se.	0.335	8.5	d. clouds	Manuel Maeu.
Tuguegarao, Philippine Id's	29.79	756.7	29.92	760.0	75.7	24.3	90	nnw.	0.2	0.0			10 n		nw.	0.45	11.4	covered	José L. Yrastorza.
SWEDISH																			
Haparanda	29.67	753.7	29.71	754.7	31.6	— 0.2	92	s.			4		10			0	0		
Umea	29.64	752.9	29 69	754.2	34.5	1.4	93	sw.			2		10			0	0		
Hernosand	29.59	751.6	29.64	752.9	35.4	1.9	84	sse.			2		10			0.051	1.3		
Stockholm	29.58	751.4	29.76	755.9	42.1	5.6	94	sw.			2		10			0.028	0.7	raining	
Wisby	29.78	756.4	29.84	757.9	43.9	6.6	94	ssw.			2		10			0.071	1.8	raining	
Sub-series.																			
Upsala	29.61	752.2	29.70	754.4	41.5	5.3	96	s.	13.2	5.9			10		s.	0.102	2.6	raining	S. G. Fineman.
SWISS.																			
Geneva	28.83	732.2	30.22	767.5	65.8	18.8	40	w.			2					0	0		The Observatory

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Turkish.																			
Constantinople	.....	... .	30.11	764.7	61.9	16.6	62	n.	11	5.0	.....	.....	6	.....	nnw.	0	0	.....	The Observatory.
Valona	.....	.....	30.12	765.1	63.0	17.2	.....	nw.	.....	.....	1	.....	10	.....	.....	0.98	25.	rainy...	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	30.04	763.1	66.9	19.4	73	n.	.....	.....	1	0	0	.....	.....	0	0	.....	Prof. C. V. A. van Dyck.
United States.																			
Albany, New York	29.18	741.2	29.26	743.2	60	15.6	70	s.	4	1.8	.....	.....	10 s	.....	w.	0.35	8.9	cloudy..	J. O. Barnes.
Alpena, Michigan	28.78	731.0	29.46	748.3	33	0.6	88	nw.	16	7.2	.....	.....	10 n	.....	.....	1.05	26.7	light snow..	Jas. J. Fitzgerald.
Atlanta, Georgia	28.61	726.7	29.80	756.9	65.0	18.3	58	w.	6	2.7	.....	0	c	.....	.....	0.02	0.5	clear.....	H. Hall.
Atlantic City, New Jersey	29.41	747.0	29.42	747.3	58.2	14.6	80	w.	7	3.1	.....	2 k	0	.....	.....	0.21	5.3	clear.....	Jas. M. Watson.
Augusta, Georgia	29.55	750.6	29.74	755.4	67.6	19.8	55	sw.	2	0.9	.....	.....	10 s	.....	sw.	0.01	0.3	cloudy.....	John Healy.
Baltimore, Maryland	29.45	748.0	29.50	749.3	62	16.7	47	nw.	20	8.9	.....	4 k	0	w.	.....	0.04	1.0	fair.....	Robert Seyboth.
Barnegat, New Jersey	29.40	746.7	29.42	747.3	57.5	14.2	82	sw.	11	4.9	.....	0	5 k	.....	w.	0.92	23.4	fair.....	Chas. F. Merritt.
Bismarck, Dakota	27.86	707.6	29.74	755.4	37	2.8	82	se.	4	1.8	.....	0	0	.....	.....	0	0	clear.....	Cyrus Cramer.
Boise City, Idaho	27.17	690.1	30.01	762.2	31.3	— 0.4	85	w.	4	1.8	.....	0	8 s	.....	w.	0	0	fair.....	B. E. Light.
Boston, Massachusetts	29.16	740.7	29.32	744.7	43.0	6.1	93	w.	4	1.8	.....	.....	fg.	... .	.....	0.50	12.7	dense fog....	O. B. Cole.
Brownsville, Texas	29.81	757.2	29.86	758.4	77	25.0	85	se.	4	1.8	.....	10 cs	0	.....	.....	0	0	cloudy.....	J. C. Galloway.
Buffalo, New York	28.60	726.4	29.37	746.0	39.2	4.0	96	sw.	36	16.1	.....	.....	10 n	.....	sw.	0.92	23.4	light rain....	Wm. Finn.
Burlington, Vermont	28.89	733.8	29.19	741.4	48.0	8.9	89	se.	2	0.9	.....	.....	10 n	.....	sw.	0.12	3.0	light rain....	G. C. Schaeffer.
Cairo, Illinois	29.44	747.8	29.85	758.2	55.6	13.1	76	calm	0	0	.....	0	0	.....	.....	0	0	clear.....	W. H. Ray.
Campo, California	27.41	696.2	29.99	761.7	44	6.7	93	w.	7	3.1	.....	.....	fg.	.....	w.	0	0	dense fog....	W. H. Glendenon.
Camp Thomas, Arizona	27.15	689.6	29.88	758.9	37	2.8	53	calm	.....	.....	0	0	0	.....	.....	0	0	clear.....	J. T. Fitzgerald.
Cape Henry, Virginia	29.54	750.3	29.56	750.8	68	20.0	55	sw.	16	7.2	.....	3 c	3 s	.....	.....	0	0	fair.....	J. E. Lanouette.
Cape May, New Jersey	29.43	747.5	29.46	748.3	58	14.4	87	sw.	12	5.4	.....	0	0	.....	.....	0.10	2.5	clear.....	W. Bolten.
Cedar Keys, Florida	29.87	758.7	29.89	759.2	76	24.4	85	sw.	22	9.8	.....	.....	10 s	.....	sw.	0	0	cloudy	F. W. Mixer.
Champaign, Illinois	28.93	734.8	29.77	756.1	41.5	5.3	75	nw.	13	5.8	.....	0	0	.....	.....	0.03	0.8	clear.....	L. A. Welsh.
Charleston, S. Carolina	29.73	755.1	29.79	756.7	69	20.6	93	sw.	12	5.4	.....	.....	10 s	.....	sw.	0	0	threatening.	J. H. Smith.
Charlotte, N. Carolina	28.82	732.0	29.68	753.9	62.0	16.7	60	w.	6	2.7	.....	5 ck	0	w.	.....	0.06	1.5	fair.....	D. O. Donoghue.
Chattanooga, Tennessee	29.00	736.6	29.83	757.7	59.5	15.3	61	n.	6	2.7	.....	0	hz.	.....	.....	0	0	clear.....	B. L. Goulding.
Cheyenne, Wyoming	23.72	602.5	29.72	754.9	35.8	2.1	56	sw.	2	0.9	.....	6 cs	0	sw.	.....	0	0	fair.....	E. McGovern.
Chicago, Illinois	29.01	736.8	29.74	755.4	39.3	4.1	75	nw.	8	3.6	.....	4 k	0	w.	.....	0.03	0.8	fair.....	J. Mitchell.
Chincoteague, Virginia	29.48	748.8	29.50	749.3	63	17.2	73	w.	7	3.1	.....	1 c	hz.	w.	.....	0.05	1.3	clear.....	V. P. Temple.
Cincinnati, Ohio	29.05	737.9	29.72	754.9	52.3	11.3	76	sw.	8	3.6	.....	10 k	0	w.	.....	0.01	0.3	cloudy	R. B. Watkins.
Cleveland, Ohio	28.82	732.0	29.58	751.3	41.2	5.1	73	w.	19	8.5	.....	.....	10 s	.....	w.	0.58	14.7	cloudy	J. B. Newlin.
Coleman City, Texas	28.08	713.2	29.90	759.4	50	10.0	48	sw.	3	1.3	.....	6 cs	0	.....	.....	0	0	fair.....	L. Dorman.
Columbus, Ohio	28.80	731.5	29.67	753.6	47	8.3	77	sw.	9	4.0	.....	0	0	.....	.....	0.21	5.3	clear.....	D. Cuthbertson.
Concho, Texas	27.96	710.2	29.90	759.4	43	6.1	34	calm	0	0	.....	5 c	0	.....	.....	0	0	fair.....	W. W. McConihe.
Davenport, Iowa	29.15	740 4	29.82	757.4	39	3.9	73	nw.	6	2.7	.....	0	0	.....	.....	0.05	1.3	clear	R. R. Martin.
Dayton, Washington T'y	28.18	715.8	29.94	760.5	32.2	0.1	77	sw.	11	4.9	.....	.....	10 s	.....	sw.	0.38	9.7	cloudy.....	H. Clifford.
Deadwood, Dakota	24.92	633.0	29.60	751.8	49	9.4	44	sw.	20	8.9	.....	7 c	0	sw.	.....	0	0	fair.....	G. W. Scott.
Decatur, Texas	.....	.....	.....	.....	56	13.3	62	nw.	8	3.6	.....	0	0	.....	.....	0	0	clear.....	D. J. Carr.
Delaware Breakwater, Del.	29.45	748.0	29.47	748.5	57	13.9	86	sw.	12	5.4	.....	2 ck	hz.	w.	.....	inap.	inap.	clear.....	A. Schneider.
Denison, Texas	29.03	737.3	29.83	757.7	53.5	11.9	72	s.	11	4.9	.....	0	0	.....	.....	0	0	clear.....	J. McGlone.
Denver, Colorado	24.42	620.3	29.68	753.9	38.0	3.3	58	s.	8	3.6	.....	0	4 s	.....	w.	0	0	fair.....	F. M. Neal.
Des Moines, Iowa	28.90	734.0	29.83	757.7	39	3.9	82	nw.	1	0.4	.....	.....	fg.	.....	.....	inap.	inap.	dense fog....	F. W. Conrad.
Detroit, Michigan	28.81	731.8	29.54	750.3	40.0	4.4	73	w.	20	8.9	.....	.....	10 s	.....	w.	0.37	9.4	cloudy	C. F. R. Wappenhans.
Dodge City, Kansas	27.08	687.8	29.72	754.9	41	5.0	76	calm	0	0	.....	0	0	.....	.....	0	0	clear.....	E. A. Thomas.
Dubuque, Iowa	29.09	738.9	29.82	757.4	37.2	2.9	64	w.	3	1.3	.....	0	0	.....	.....	0.06	1.5	clear.....	J. Harvey Smith.
Duluth, Minnesota	29.16	740.7	29.88	758.9	31	— 0.6	78	n.	6	2.7	.....	0	0	.....	.....	0	0	clear.....	N. B. Conger.
Eagle Pass, Texas	29.10	739.1	29.91	759.7	57.1	13.9	57	calm	0	0	.....	0	0	.....	.....	0	0	fair.....	F. Belford.
Eagle Rock, Idaho	25.13	638.3	29.85	758.2	26	— 3.3	80	sw.	34	15.2	.....	0	0	.....	.....	0.69	17.5	clear	J. M. Clifford.
Eastport, Maine	29.22	742.2	29.29	744.0	39	3.9	94	e.	19	8.5	.....	.....	10 n	.....	e.	0.86	21.8	light rain....	J. H. Melton.
El Paso, Texas	26.22	666.0	29.96	761.0	51	10.6	61	nw.	9	4.0	.....	0	0	.....	.....	0	0	clear.....	J. F. Marshall.
Erie, Pennsylvania	28.73	729.7	29.48	748.8	41	5.0	82	w.	22	9.8	.....	.....	10 ks	.....	w.	1.09	27.7	cloudy	R. H. Paxton.
Escanaba, Michigan	29.00	736.6	29.69	754.1	33	0.6	78	n.	14	6.3	.....	.....	10 g	.....	n.	0.13	3.3	cloudy	C. Dill.
Florence, Arizona	28.40	721.3	29.90	759.4	45.4	7.4	55	se.	4	1.8	.....	0	0	.....	.....	0	0	clear.....	R. R. Herman.
Fort Apache, Arizona	24.93	633.2	29.85	758.2	27	— 2.8	70	ne.	2	0.9	.....	0	0	.....	.....	0	0	clear.....	W. C. Barnes.
Fort Assinnaboine, Montana	26.88	682.7	29.78	756.4	35	1.7	56	w.	4	1.8	.....	.....	10 s	....	s.	inap.	inap.	cloudy	B. O. Lenoir.
Fort Bennett, Dakota	28.06	712.7	29.70	754.4	39	3.9	73	se.	10	4.5	.....	0	0	.....	.....	0	0	clear.....	T. Gibson.
Fort Benton, Montana	26.91	683.5	29.77	756.1	33	0.6	62	calm	0	0	.....	10 cs	0	.....	calm	0	0	cloudy	S. Wheaton.
Fort Buford, Dakota	27.60	701.0	29.67	753.6	40	4.4	67	e.	8	3.6	.....	0	0	.....	.....	0	0	clear.....	A. H. Bell.
Fort Custer, Montana	26.50	673.1	29.68	753.9	42	5.6	68	n.	2	0.9	.....	.....	10 s	.....	w.	0	0	threatening	V. Verge.
Fort Davis, Texas	25.08	637.0	29.86	758.4	43	6.1	71	s.	2	0.9	.....	0	5 s	.....	s.	0	0	fair.....	J. Williams.
Fort Elliott, Texas	27.00	685.8	29.78	756.4	41	5.0	67	e.	4	1.8	.....	0	0	.....	.....	0	0	clear.....	W. J. Cundall.
Fort Gibson, Indian T'y	29.23	742.4	29.81	757.2	52.3	11.3	72	ne.	4	1.8	.....	0	0	.....	.....	0	0	clear.....	J. B. Campbell.
Fort Grant, Arizona	25.22	640.6	29.95	760.7	45	7.2	26	n.	8	3.6	.....	0	0	.....	.....	0	0	clear.....	T. J. Macgowan.
Fort Keogh, Montana	27.09	688.1	29.63	752.6	43	6.1	59	n.	23	10.3	.....	9 cs	0	nw.	.....	0	0	cloudy..	W. B. Stockman.
Fort Macon, North Carolina	29.66	753.4	29.67	753.6	65	18.3	90	sw.	18	8.0	.....	10 cs	hz.	sw.	calm	0.35	8.9	cloudy.....	L. Leonardy.
Fort McKavett, Texas	27.72	704.1	29.98	761.5	49	9.4	46	sw.	4	1.8	.....	0	0	.....	.....	0	0	clear.....	J. E. Thatcher.
Fort Missoula, Montana	26.54	674.1	29.85	758.2	31	— 0.6	88	w.	5	2.2	.....	.....	10 ks	.....	.....	0.03	0.8	cloudy	J. H. Jones.
Fort St. Michaels, Alaska	29.68	753.9	29.72	754.9	0	—17.8	100	nw.	6	2.7	.....	0	0	.....	.....	0	0	clear.....	A. P. Leavitt.
Fort Shaw, Montana	26.07	662.2	29.74	755.4	28	— 2.2	67	n.	1	0.4	.....	0	0	.....	.....	inap.	inap.	clear.....	A. L. Mathews.
Fort Sill, Indian Territory	28.56	725.4	29.80	756.9	45.8	7.7	81	s.	2	0.9	.....	0	0	.....	.....	0	0	clear.....	T. Cleary.
Fort Stevenson, Dakota	27.82	706.6	29.72	754.9	34	1.1	88	e.	6	2.7	.....	0	0	.....	.....	0	0	clear.....	W. Burrows
Fort Verde, Arizona	.....	.....	.....	.....	43.1	6.2	60	ne.	.....	.....	4	.....	10 s	....	ne.	0	0	cloudy	D. Brooks.
Fort Washakie, Wyoming	24.08	611.6	.....	.....	30.0	2.2	69	nw.	5	2.2	.....	8 k	1 k	.....	.....	0	0	cloudy	T. M. Ambler.
Fredericksburg, Texas	28.15	715.0	29.87	758.7	49	9.4	80	w.	1	0.4	.....	5 cs	0	.....	.....	0	0	fair.....	H. S. Miles.
Galveston, Texas	29.84	757.9	29.88	758.9	70	21.1	95	nw.	3	1.3	.....	.....	fg.	.....	.....	0.01	0.3	dense fog....	E. O'C. MacInernev.
Grand Haven, Michigan	28.97	735.8	29.66	753.4	35.5	1.9	89	nw.	25	11.2	.....	.....	10 n	.....	nw.	0.11	2.8	heavy snow	W. A. Reid.
Hatteras, North Carolina	29.62	752.3	29.64	752.8	66	18.9	90	sw.	32	14.3	.....	0	9 k	.....	sw.	0.53	13.5	cloudy	R. M. Crawford.
Helena, Montana	25.50	647.7	29.76	755.9	34	1.1	56	w.	18	8.0	.....	0	7 s	.....	w.	0.01	0.3	fair.....	N. C. Smith.
Henrietta, Texas	28.83	732.3	29.86	758.4	53.0	11.7	80	s.	7	3.1	.....	0	0	.....	.....	0	0	clear.....	J. W. Byram.
Huron, Dakota	28.35	720.1	29.80	756.9	35	1.7	72	e.	9	4.0	.....	0	0	.....	.....	0	0	clear.....	S. W. Glenn.
Indianapolis, Indiana	28.87	733.3	29.69	754.1	47	8.3	68	w.	9	4.0	.....	0	7 ks	.....	w.	0.31	7.9	fair.....	O. Schutze
Indianola, Texas	29.87	758.7	29.90	759.4	72.6	22.0	97	se.	3	1.3	.....	.....	10 s	.....	se.	inap.	inap.	cloudy.....	I. A. Reed.
Jacksboro, Texas	28.66	728.0	29.84	757.9	56	13.3	70	sw.	11	4.9	.....	2 c	0	w.	.....	0	0	clear.....	J. P. Sherry.
Jacksonville, Florida	29.83	757.7	29.87	758.7	67	19.4	93	s.	5	2.2	.....	.....	10 n	.....	.....	1.93	49.0	light rain....	J. W. Smith.
Keokuk, Iowa	29.23	742.4	29.90	759.4	49.0	9.4	71	calm	0	0	.....	0	0	.....	.....	0	0	clear.	F. Z. Gosewisch
Key West, Florida	29.98	761.5	30.00	762.0	78.0	25.6	76	s.	15	6.7	.....	0	3 k	.....	s.	0	0	clear.....	L. M. Melbourne.
Kittyhawk, North Carolina	29.60	751.8	29.62	752.3	64	17.8	84	w.	14	6.3	.....	2 c	5 s	.....	w.	0.02	0.5	fair.....	E. A. Beals.
Knoxville, Tennessee	28.76	730.5	29.80	756.9	56	13.3	69	w.	2	0.9	.....	0	0	.....	.....	inap.	inap.	clear.....	J. A. Cody.
La Crosse, Wisconsin	29.03	737.3	29.83	757.7	37	2.8	72	n.	9	4.0	.....	0	0	.....	.....	0.01	0.3	clear.....	S. C. Emery.
La Mesilla, New Mexico	26.04	661.4	29.92	760.0	36.5	2.5	57	calm	0	0	.....	0	0	.....	.....	0	0	clear.....	N. D. Lane.
Leavenworth, Kansas	28.90	734.0	29.81	757.2	50	10.0	77	calm	0	0	.....	4 k	0	w.	.....	inap.	inap.	fair.....	A. W. Browne.
Lewiston, Idaho	29.11	739.4	29.96	761.0	37.5	3.1	48	n.	1	0.4	.....	.....	10 s	.....	.....	0.23	5.8	cloudy	W. Blake.
Little Rock, Arkansas	29.53	750.0	29.85	758.2	54	12.2	80	w.	2	0.9	.....	0	0	.....	.....	0	0	clear.....	W. U. Simmons.
Los Angeles, California	29.65	753.1	30.05	763.3	52.1	11.2	86	ne.	10	4.5	.....	.....	10 n	.....	calm	0.06	1.5	light rain....	E. F. Kubel.
Louisville, Kentucky	29.17	740.9	29.74	755.4	53	11.7	72	sw.	10	4.5	.....	.....	10 s	.....	w.	0	0	cloudy	H. C. Smyth.
Lynchburg, Virginia	28.91	734.3	29.62	752.3	63.5	17.5	39	w.	12	5.4	.....	0	1 k	.....	.....	0.03	0.8	clear..	W. R. Bushby.
Madison, Wisconsin	28.74	730.0	29.78	756.4	33	0.6	81	nw.	12	5.4	.....	0	0	.....	.....	0.08	2.0	clear.....	C. A. Shaw.
Marquette, Michigan	29.00	736.6	29.75	755.6	32	0.0	88	nw.	18	8.0	.....	.....	10 s	.....	nw.	1.13	28.7	cloudy	J. Gilligan.
Mason, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	P. M. Wilson.
Memphis, Tennessee	29.51	749.5	29.85	758.2	57	13.9	86	w.	4	1.8	.....	0	0	.....	.....	0	0	clear.....	D. T. Flannery.
Milwaukee, Wisconsin	28 95	735.3	29.72	754.9	36	2.2	79	nw.	11	4.9	.....	0	0	.....	.....	0.06	1.5	clear.....	W. Line.
Mobile, Alabama	29.82	757.4	29.86	758.4	66.5	19.2	86	n.	2	0.9	.....	5 cs	0	.....	nw.	0.60	15.2	fair.....	J. D. Paxton.

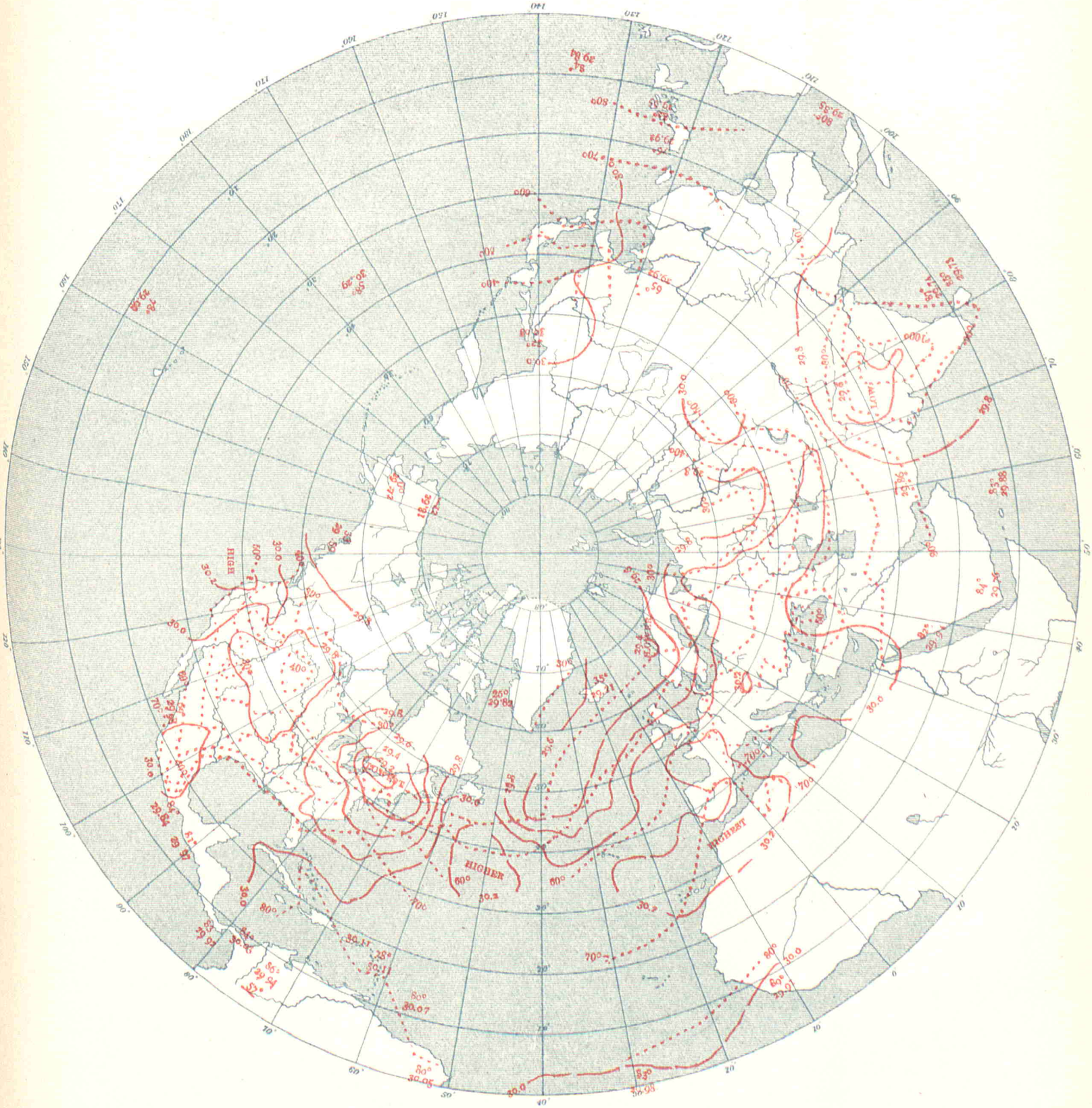
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
United States.—Cont'd.																			
Montgomery, Alabama	29.60	751.8	29.83	757.7	63.7	17.6	85	s.	1	0.4	.....	3 cs	0	w.	.....	0	0	clear	J. B. McLaughlin.
Moorhead, Minnesota	28.80	731.5	29.82	757.4	35.1	1.7	79	se.	6	2.7	.....	0	0	.....	.....	0	0	clear	H. Bessant.
Morgantown, W. Virginia	28.62	726.9	29.66	753.4	54.5	12.5	52	w.	21	9.4	.....	.....	10 s	.....	w.	0.37	9.4	cloudy	G. C. Lewis.
Mt. Washington, N. H.	23.09	586.5	29.50	749.3	32.0	0.0	100	w.	35	15.6	.....	.....	10n;fg	.....	w.	0.88	22.4	sleeting	J. G. Linsley.
Nashville, Tennessee	29.27	743.4	29.81	757.2	52.0	11.1	83	nw.	2	0.9	.....	0	hz.	.....	.....	0	0	clear	L. A. Jesunofsky.
New Haven, Connecticut	29.19	741.4	29.31	744.5	53	11.7	93	sw.	13	5.8	.....	1 c	sk.	sw.	.....	0.38	9.7	clear	J. H. Sherman.
New London, Connecticut	29.32	744.7	29.37	746.0	53	11.7	72	w.	11	4.9	.....	4 k	0	calm	.....	1.34	34.0	fair	J. G. Lynch.
New Orleans, Louisiana	29.82	757.4	29.88	758.9	72.0	22.2	90	w.	6	2.7	.....	5 cs	0	w.	.....	0	0	fair	S. Dunne.
Newport, Rhode Island	29.29	744.0	29.34	745.2	48.4	9.1	91	sw.	13	5.8	.....	1 k	0	sw.	.....	1.65	41.9	clear	W. McGillivray.
New River, N. Carolina	.....	.....	.....	.....	66	18.9	85	sw.	.....	.....	1	.....	10 s	.....	s.	0.06	1.5	cloudy	C. C. Corbin.
New Shoreham, Rhode I'd.	29.32	744.7	29.34	745.2	48.8	9.3	86	sw.	19	8.5	.....	0	6 k	.....	sw.	0.83	21.1	fair	W. Davis.
New York, New York	29.20	741.7	29.38	746.2	54	12.2	86	sw.	12	5.4	.....	4 cs	4 s	sw.	.....	0.67	17.0	cloudy	E. B. Garriott.
Norfolk, Virginia	29.53	750.0	29.56	750.8	69	20.6	66	w	8	3.6	.....	0	hz.	.....	.....	Inap.	Inap.	clear	J. T. Elker.
North Platte, Nebraska	26.79	680.5	29.75	755.6	38.6	3.7	79	calm	0	0	.....	0	fg.	.....	.....	0	0	light fog	E. F. Brady.
Olympia, Washington T'y	29.99	761.7	30.03	762.7	37.0	2.8	85	sw.	7	3.1	.....	0	1 s	.....	calm	0.15	3.8	clear	J. Dascomb.
Omaha, Nebraska	28.61	726.7	29.82	757.4	45.3	7.4	88	calm	0	0	.....	.....	hz.	.....	.....	0.02	0.5	dense haze	A. Pollak.
Ooglaamie, Pt. Barrow, Alas.	29.79	756.7	29.81	757.2	—11.8	—24.3	85	nne.	4	1.8	.....	.....	10 s	.....	.....	0.01	0.3	cloudy	P. H. Ray.
Oswego, New York	28.90	734.0	29.24	742.7	46.2	7.9	82	w.	16	7.2	.....	.....	10 s	.....	w.	0.64	16.3	cloudy	S. W. Beall.
Palestine, Texas	29.34	745.2	29.90	759.4	56.5	13.6	80	ne.	5	2.2	.....	7 c	0	nw.	.....	0	0	fair	L. M. Pindell.
Pensacola, Florida	29.82	757.4	29.85	758.2	66.0	18.9	93	n.	4	1.8	.....	9cs;cs	0	w.	.....	0.47	11.9	cloudy	M. McGauran.
Philadelphia, Pa.	29.35	745.5	29.45	748.0	60	15.6	60	w.	12	5.4	.....	.....	10 ks	.....	w.	0.76	19.3	cloudy	T. F. Townsend.
Pike's Peak, Colorado	17.47	443.7	29.75	755.6	9	—12.8	73	sw.	52	23.2	.....	0	0	.....	.....	0	0	clear	L. M. Dey.
Pioche, Nevada	23.72	602.5	29.71	754.6	41.4	5.2	54	s.	17	7.6	.....	.....	10 n	.....	calm	0	0	cloudy	C. N. Kitchel.
Pittsburg, Pennsylvania	28.74	730.0	29.57	751.1	48.0	8.9	63	w.	16	7.2	.....	.....	10 s	.....	w.	0.14	3.6	cloudy	J. H. Bryce.
Port Eads, Louisiana	29.88	758.9	29.89	759.2	73.1	22.8	94	w.	14	6.3	.....	2 c	2 k	w.	w.	0.05	1.3	fair	H. G. Christian.
Port Huron, Michigan	28.78	731.0	29.48	748.8	37.8	3.2	82	w.	19	8.5	.....	.....	10 ks	.....	w.	0.39	9.9	cloudy	W. O. Bailey.
Portland, Maine	29.20	741.7	29.25	742.9	43.0	6.1	83	nw.	8	3.6	.....	.....	10 s	.....	nw.	1.06	26.9	cloudy	D. C. Murphy.
Portland, Oregon	30.03	762.7	30.09	764.3	36.2	2.3	89	calm	0	0	.....	0	4 s	.....	sw.	0.41	10.4	fair	M. L. Hearne.
Portsmouth, N. Carolina	.....	.....	.....	.....	68	20.0	73	sw.	18	8.0	.....	.....	10 ks	.....	sw.	0.61	15.5	cloudy	F. P. Chaffee.
Prescott, Arizona	24.62	625.3	29.84	757.9	43	6.1	37	s.	5	2.2	.....	0	0	.....	.....	0	0	clear	J. Mc N. Wright.
Provincetown, Mass.	29.29	744.0	29.32	744 7	43	6.1	100	sw.	3	1.3	.....	.....	fg.	.....	.....	1.26	32.0	dense fog	P. T. Jenkins.
Punta Rassa, Florida	29.93	760.2	29.94	760.5	77.5	25.3	79	sw.	26	11.6	.....	2 c	7 ks	calm	sw.	0	0	cloudy	W. J. Evans.
Red Bluff, California	29.74	755.4	30.10	764.5	39.6	4.2	72	nw.	6	2.7	.....	0	0	.....	.....	Inap.	Inap.	clear	J. M. Frantz.
Rio Grande City, Texas	29.58	751.3	29.82	757.4	71	21.7	94	se.	5	2.2	.....	.....	fg.	.....	se.	0	0	dense fog	W. H. Taylor.
Rochester, New York	28.61	726.7	29.30	744.2	43	6.1	83	w.	36	16.1	.....	.....	10 ks	.....	w.	0.34	8.6	threatening	A. T. Sherwood.
Roseburg, Oregon	29.62	752.3	30.18	766.6	34.6	1.4	87	se.	2	0.9	.....	0	6 s	.....	.....	0.39	9.9	fair	J. J. Nanry.
Sacramento, California	30.00	762.0	30.08	764.0	44.8	7.1	68	n.	15	6.7	.....	0	0	.....	.....	0.05	1.3	clear	J. A. Barwick.
St. Louis, Missouri	29.24	742.7	29.85	758.2	47.1	8.4	93	w.	6	2.7	.....	0	9 s	.....	w.	0	0	cloudy	J. H. Webber.
St. Paul, Minnesota	28.96	735.6	29.85	758.2	36.5	2.5	73	calm	0	0	.....	0	0	.....	.....	0	0	clear	P. F. Lyons.
St. Vincent, Minnesota	28.96	735.6	29.87	758.7	31	— 0.6	78	e.	9	4.0	.....	0	0	.....	.....	0	0	clear	G. Kingsbury.
Salt Lake City, Utah	25.34	643.6	29.71	754.6	34	1.1	71	nw.	15	6.7	.....	.....	10 n	.....	.....	0.42	10.7	light snow	G. Craig.
San Antonio, Texas	29.18	741.2	29.88	758.9	60.6	15.9	87	calm	0	0	.....	.....	fg.	.....	.....	0	0	light fog	E. Lane.
San Diego, California	29.98	761.5	30.05	763.3	56.3	13.5	82	sw.	3	1.3	.....	.....	10 n	.....	w.	0.03	0.8	light rain	A. C. Dobbins.
Sandusky, Ohio	28.88	733.5	29.58	751.3	42	5.6	73	w.	17	7.6	.....	.....	10 s	.....	w.	0.30	7.6	cloudy	M. H. Perry.
Sandy Hook, New Jersey	29.35	745.5	29.39	746.5	55.0	12.8	80	w.	16	7.2	.....	6 cs;k	0	w.	.....	0.48	12.2	fair	B. A. Blundon.
San Francisco, California	30.07	763.8	30.14	765.5	45	7.2	45	nw.	12	5.4	.....	0	0	.....	.....	0.06	1.5	clear	N. Gorom.
Santa Fé, New Mexico	23.10	586.7	29.86	758.4	38	3.3	51	calm	0	0	.....	0	0	.....	.....	0	0	clear	H. U. Jones.
Savannah, Georgia	29.78	756.4	29.87	758.7	68	20.0	90	sw.	12	5.4	.....	.....	10 n	.....	sw.	0.53	13.5	light rain	H. W. Ford.
Shreveport, Louisiana	29.64	752.8	29.88	758.9	55	12.8	86	sw.	4	1.8	.....	9 c	0	.....	.....	0	0	cloudy	E. N. Meekins.
Silver City, New Mexico	24.15	613.4	29.83	757.7	33	0.6	41	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. B. Wallace.
Sitka, Alaska	29.52	749.8	29.59	751.6	33	0.6	72	se.	6	2.7	.....	.....	10 s	.....	calm	0	0	cloudy	J. J. McLean.
Smithville, North Carolina	29.68	753.9	29.72	754.9	66	18.9	90	w.	12	5.4	.....	.....	10 s	.....	.....	0.15	3.8	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	27.79	705.9	29.85	758.2	31	— 0.6	100	se.	8	3.6	.....	.....	10 n	.....	.....	0.30	7.6	light snow	D. Moore.
Springfield, Illinois	29.13	739.9	29.83	757.7	48	8.9	63	nw.	4	1.8	.....	0	0	.....	.....	0	0	clear	T. B. Jennings.
Springfield, Massachusetts	29.15	740.4	29.28	743.7	50.0	10.0	86	s.	2	0.9	.....	.....	10s;fg	.....	s.	0.31	7.9	cloudy	T. S. Outram.
Springfield, Mo.	28.38	720.8	29.90	759.4	52	11.1	72	w.	6	2.7	.....	0	0	.....	.....	0	0	clear	J. B. Marbury.
Stockton, Texas	26.80	683.0	29.92	760.0	46.2	7.9	37	calm	0	0	.....	0	1 s	.....	.....	0	0	clear	J. O'Dowd.
Thatcher's Island, Mass.	29.26	743.2	29.31	744.5	45.8	7.7	96	s.	4	1.8	.....	.....	fg.	.....	.....	1.10	27.9	dense fog	G. Liebmann.
Toledo, Ohio	28.88	733.5	29.59	751.6	41.2	5.1	82	w.	16	7.2	.....	.....	10 s	.....	w.	0.11	2.8	cloudy	A. Buell.
Tucson, Arizona	27.51	698.7	29.90	759.4	48	8.9	38	se.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.67	753.6	30.04	763.0	38	3.3	45	sw.	19	8.5	.....	0	1 s	.....	.....	0.04	1.0	clear	J. Daly.
Uvalde, Texas	28.90	734.0	29.87	758.7	56	13.3	47	e.	3	1.3	.....	0	6 s	.....	.....	0	0	fair	E. C. Imlay.
Vicksburg, Mississippi	29.62	752.3	29.88	758.9	62	16.7	84	w.	1	0.4	.....	6 c	0	w.	.....	0.21	5.3	fair	T. J. Kenan.
Visalia, California	29.66	753.4	30.03	762.7	47.9	8.8	62	nw.	8	3.6	.....	4 ck	5 ks	nw.	nw.	0	0	cloudy	J. T. Cochran.
Washington, D. C.	29.30	746.5	29.51	749.5	61.5	16.4	53	nw.	13	5.8	.....	2 k	0	nw.	.....	0.06	1.5	clear	B. M. Purssell.
West Las Animas, Colorado	25.75	654.0	29.71	754.6	36	2.2	49	w.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. Grover.
Wickenburg, Arizona	.....	.....	.....	.....	39	3.9	82	s.	.....	.....	1	.....	10 s	.....	s.	0	0	cloudy	H. A. Kramp.
Williamsport, Pa.	28.80	731.5	29.41	747.0	50.3	10.2	65	w.	14	6.3	.....	.....	10 ks	.....	w	0.58	14.7	cloudy	R. F. Hough.
Wilmington, N. Carolina	29.62	752.3	29.68	753.9	68	20.0	78	w.	11	4.9	.....	.....	10 s	.....	w.	Inap.	Inap.	cloudy	E. W. McGann.
Winnemucca, Nevada	25.52	648.2	29.92	760.0	28	— 2.2	77	n.	1	0.4	.....	0	2 ks	.....	sw.	Inap.	Inap.	clear	J. R. Williams.
Yankton, Dakota	28.45	722.6	29.79	756.7	37	2.8	72	ne.	3	1.3	.....	.....	fg.	.....	.....	0	0	dense fog	J. H. Atfield.
Yuma, Arizona	29.74	755.4	29.89	759.2	54.8	12.7	49	sw.	4	1.8	.....	0	1 s	.....	.....	0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.06	560.3	.....	.....	56.5	13.6	64	e.	1.2	0.5	.....	.....	9 ks;s	.....	.....	0	0	cloudy	Joaquin Gomez.
Bridgetown, Barbados, W. I.	30.06	763.5	30.07	763.8	80	26.7	90	e.	.....	.....	.....	5 k	5 ks	e.	e.	0	0	fair	J. A. Racker.
Buenaventura, U. S. C.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. I. Plume.
Guadeloupe, W. I.	29.90	761.7	30.01	762.2	78	25.6	87	e.	.....	.....	.....	2 k	2 ks	.....	.....	0	0	.....	B. Bigar.
Havana, Cuba, W. I.	29.90	761.7	30.04	763.0	80	26.7	79	s.	1.2	0.5	.....	0	0	.....	.....	0	0	clear	A. Van Caneghem.
Kingston, Jamaica, W. I.	30.04	763.0	30.05	763.3	79.0	26.1	75	n.	1	0.4	.....	0	2 s	.....	e.	0	0	fine	Robert Johnston.
Navassa, W. I.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	F. M. Everett.
Paramaribo, S. A.	30.05	763.3	30.05	763.3	80	26.7	82	e.	.....	.....	3	5 k	8 ks	e.	e.	0.010	0.3	.....	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.48	748.8	29.94	760.5	86	30.0	85	n.	.....	.....	1	2 ck	7 k	s.	n.	0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	.....	.....	90	ne.	.....	.....	4	0	0	.....	.....	0	0	clear	Earl Flint.
Santiago de Cuba, W. I.	30.01	762.2	30.04	763.0	78	25.6	78	calm	0	0	.....	2 cs	0	.....	.....	0.05	1.3	fair	Robert Mason.
York Factory, B. A.	29.94	760.5	30.00	762.0	24.0	— 4.4	94	se.	13	5.8	.....	0	0	.....	.....	0	0	clear	W. Wood.

STATIONS AND VESSELS.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
British Naval.																		
H. M. S. Alert, S. 8° 26′, E. 51° 23′	29.87	758.7	84.5	29.2	73	se.			2–3		2							d. clouds.
H. M. S. Alexandra, Malta Mediterranean	29.95	760.7	62.8	17.1	82	wnw.			2		7	nnw.						showery.
H. M. S. Bacchante, Haifa Bay, Palestine	30.03	762.7	69	20.6	75	nnw.			2		0							blue sky.
H. M. S. Cleopatra, N. 6° 45′, E. 81° 51′	29.73	755.1	84.5	29.2	95	ne.			1–2		1	calm						blue sky.
H. M. S. Comus, Pelew Island, Oceania	29.84	757.9	84	28.9	91	e.			1–3		5	ne.						d. clouds.
H. M. S. Diamond, S. 38° 12′, E. 149° 04′	30.14	765.5	65	18.3	94	ne.			1–2		0					1	ne.	blue sky.
H. M. S. Dido, N. 18° 00′, W. 63° 00′	30.13	765.3	78	25.6		se.			1–3		2	e.						d. clouds.
H. M. S. Dryad, N. 25° 44′, E. 57° 46′	29.76	755.9				wsw.			1		9	sw.				1	wsw.	misty.
H. M. S. Eclipse, S 10° 07′, E. 42° 07′			83	28.3	95	ese.			2		2					3	se.	d. clouds.
H. M. S. Espiegle, S. 39° 27′, E. 145° 34′	30.16	766.1	61	16.1	94	e.			3		4	nw.				1	e.	d. clouds.
H. M. S. Fawn, N. 13° 21′ E. 43° 10′	29.76	755.9	83.5	28.6	67	s.			6		0					4	s.	misty.
H. M. S. Gannet, S. 29° 56′, W. 71° 20′	30.10	764.5	56	13.3	89	calm			0		0							misty.
H. M. S. Inconstant, Simon's Bay, Cape Colony	29.98	761.5	63	17.2	88	w.			1–2		10	sw.				1	w.	drizzling.
H. M. S. Iron Duke, N. 21° 02′ E. 115° 15′	29.94	760.5	72	22.2	100	ne.			2–3		10					2	ne.	overcast.
H. M. S. Lark, S. 9° 05′, E. 160° 20′	29.88	758.9	79.3	26.3		sse.			1		4					1	sse.	d. clouds.
H. M. S. Magpie, N. 35° 25′, E. 139° 43′	30.08	764.0	57.6	14.2	91	ssw.			1		0							blue sky.
H. M. S. Malabar, N 32° 28′ E. 29° 28′	30.04	763.0	65	18.3	73	calm			0		3	nnw.				2	wnw.	d. clouds.
H. M. S. Nelson, Sydney, N. S. W.	30.11	764.8	69	20.6	90	ne.			1		1	s.						blue sky.
H. M. S. Northampton, Bermuda, W. I.	30.06	763.5	67.5	19.7	81	sse.			4		9	sse.						d. clouds.
H. M. S. Orontes, Funchal, Madeira	30.21	767.3	65.5	18.6	91	ne.			2		0					1	ene.	blue sky.
H. M. S. Pegasus, N. 1° 22′, E. 105° 03′	29.85	758.2	80	26.7	91	calm			0		3					2	nw.	d. clouds.
H. M. S. Rambler, S. 13° 44′, E. 12° 04′	29.91	759.7	77	25.0	100	ssw.			3		4	sw.				4	ssw.	d. clouds.
H. M. S. Rocket, Esquimalt, Vancouver Id., B. C.	29.95	760.7	38	3.3		wsw.			2		2							d. clouds.
H. M. S. Superb, Corfu Roads, Ionian Islands*	30.09	764.3	60	15.6	76	ene.			1									misty.
H. M. S. Tamar, N 40° 17′ W. 9° 42′	30.21	767.3	64.5	18.1	73	n.			3		7	nnw.				3	wnw.	d. clouds.
H. M. S. Thalia, S. 24° 21′, E. 4° 50′	30.14	765.5	70.5	21.4	73	se.			4		4					2	se.	d. clouds.
H. M. S. Triumph, Coquimbo, Chili	30.03	762.7	59	15.0	81	calm			0		1	calm						blue sky.
H. M. S. Tyne, N. 10° 54′, W. 58° 30′	29.88	758.9	82.5	28.1	81	w.			1		2							d. clouds.
H. M. S. Woodlark, Ras al Khyma, Arabia	29.89	759.2	79.5	26.4	78	nnw.			2–3		0					2	nw.	misty.
Portuguese Naval.																		
Rio Lima, Bulama, Senegambia	30.06	763.4	78.4	25.8	85	nw.			2		2		nw.					d. clouds.
Tamega, Aberdeen, China	29.92	760.0	73.4	23.0	90	calm			0		10					5		overcast.
Swedish Naval.																		
Balder, N. 39° 03′ W. 66° 01′	29.52	749.8	63.0	17.2	94	s.			9		9							raining.
United States Naval.																		
Navy Yard. Pensacola, Fla	29.78	756.4	66	18.9	89	nnw.	3	1.3			10		nw.	0.24	6.1			cloudy.
N. Yard, Portsmouth, N. H.	29.35	745.5	41	5.0	74	nw.	4	1.8			10		nw.	0.10	2.5			cloudy.
Naval Hospital, Yokohama, Japan	29.96	701.0	56	13.3	90	sw.			1		0			0	0			clear.
Adams, N. 14° 58′ W. 96° 36′	29.69	754.1	84	28.9	91	w.			3–4		2		w.	0	0	sm'h		clear.
Alaska, Panama, Panama	29.87	758.7	78	25.6	86	calm			0		5		n.	0	0	sm'h		fair.
Alert, Kobe Japan*	29.99	701.7	65	18.3	73	calm			0		0			0	0			clear.
Alliance, N. 21° 32′, W. 92° 30′	29.90	759.4	81	27.2	91	ene.			2		2			0	0	sm'h		clear.
Ashuelot, Kobe, Japan	30.10	764.5	61	16.1	82	w.			1		2		calm					hazy.
Brooklyn, Montevideo, Uruguay	30.15	765.8	58	14.4	94	ne.	5	2.2			8		calm	0	0	sm'h		cloudy.
Colorado, New York, N. Y.	29.36	745.7	59	15.0	70	sw.	10	4.5			5		nw.	0.53	13.5			misty.
Enterprise, N. 20° 47′, W. 83° 55′*	29.98	701.5	80	26.7	91	se.			1–2		5		se.			sm'h		fair.
Essex, S. 11° 52′, W. 26° 29′	30.02	762.5	80	26.7	82	ese.			1		5		e.			long	s.	fair.
Franklin, Norfolk, Va.	29.58	751.3	67	19.4	64	wsw.	12	5.4			2		wsw.	0	0			fair.
Galena, Leghorn, Italy	30.15	765.8	68	20.0	65	nnw.			2		2					sm'h		clear.
Independence, Mare Island, Cal.	29.98	761.5	45	7.2	76	wsw.			5		2			0.05	1.3			clear.
Iroquois, Mare Island, Cal	30.06	763.5	44	6.7	76	sw.			3		2		sw.					fair.
Kearsarge, N. 33° 18′, W. 74° 55′	29.75	755.6	72	22.2	?	ssw.			4		10		ssw.			rg'h	ssw.	stormy.
Lackawana, Casma Bay, Peru*†	30.00	762.0	65	18.3	94	calm			0		2		nw.					clear.
Lancaster, Leghorn, Italy*	30.10	764.5	66	18.9	94	nw.			1		0							clear.
Marion, S. 25° 19′, W. 0° 51′	30.16	766.1	76	24.4	82	e.			2		5		e.	0	0	sm'h		fair.
Michigan, Erie, Pa.	29.19	741.4	41	5.0	91	w.			7		10		w.					cloudy.
Minnesota, Newport, R. I.	29.82	757.4	49	9.4	93	sw.	9	4.0			5		sw.					hazy.
Monocacy, Kobe, Japan	30.12	765.0	63	17.2	89	nw.			1		0							clear.
New Hampshire, Newport, R. I.	29.32	744.7	49	9.4	85	sw.			4		2		sw.			sm'h		fair.
Nipsic, Villafranca, France	30.18	766.6	77	25.0	42	sw.			1		2					sm'h		clear.
Onward, Callao, Peru†	30.06	763.5	62	16.7	100	sse.			1		10		n.			long	w.	cloudy.
Palos, Kobe, Japan	30.12	765.0	63	17.2	72	wnw.			1		2		calm					fair.
Passaic, Washington, D. C.	29.50	749.3	63	17.2	72	sw.			1		2		sw.					fair.
Pensacola, Callao, Peru	30.00	762.0	63	17.2	94	sse.	1	0.4			10			0	0	sm'h		cloudy.
Powhatan, N. 23° 00′ W. 84° 21′	30.02	762.5	79	26.1	91	se.			2		5		s.			sm'h		fair.
Portsmouth, N. 40° 30′ W. 63° 50′	29.52	749.8	58	14.4	100	ssw.			9		10		s.				ssw.	stormy.
Quinnebang, Leghorn, Italy	30.14	765.5	67	19.4	69	nnw.			3		2	calm				sm'h		clear.
Ranger, N. 22° 33′, W. 106° 08′*	29.88	758.9	71	21.7	85	nw.			1–2		5	calm		0	0	sm'h		fair.
Richmond, Kobe, Japan*	30.06	763.5	64	17.8	68	calm			0		0			0	0			clear.
Saratoga, N. 40° 24′, W. 64° 31′	29.61	752.1	62	16.7	100	sw.			8		10		nw.	light	light	r'gh	sw.	cloudy.
Shenandoah, N. 20° 19′, W. 84° 04′*	30.07	763.8	81	27.2	83	se.			1		2					sm'h		clear.
St. Louis, League Island, Pa.	29.66	753.4	57	13.9	81	wsw.	6	2.7			8		w.	0.615	15.6			fair.
Swatara, Kobe, Japan*	29.92	760.0	65	18.3	73	nnw.			1		0					sm'h		clear.
Tennessee, Port Royal, S. C.	29.89	759.2	67	19.4	100	wsw.	27	12.1			10			0.45	11.4	mod.		hy. showers.
Vandalia, Hampton Roads, Va†	29.89	759.2	62	16.7	88	wsw.			3		2		wsw.					fair.
Wabash, Boston, Mass.	29.30	744.2	46	7.8	84	w.	2	0.9			10		sw.	0.95	24.1			hazy.
Wachusetts, Sitka, Alaska	29.50	749.3	32	0.0		calm			0		10		calm			sm'h		cloudy.
Wyoming, Port Royal, S. C.	29.78	756.4	63	17.2	100	ssw.	15	6.7			10		ssw.	0.01	0.3			raining.
Yantic, Fort Monroe, Va*†	29.77	756.1	63	17.2	83	sw.			3		2							fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.			Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.	Force.	Amount and kind.		Direction.						
									Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																	
S. S. Nova Scotian, N. 48° 22′, W. 37° 24′	29.41	747.0	42	5.6	.....	w.	.....	.....	6	.....	8	.....	wsw.	.....	.....	cross	var.	squally.
S. S. Polynesian, Liverpool, England	.....	.....	.....	.....	.....	w.	.....	.....	6	.....	8	.....	wnw.	4 h'r	4 h'r	.....	.....	fine.
S. S. Scandinavian, N. 54° 10′, W. 10° 27′*	29.84	757.9	54	12.2	.....	ssw.	.....	.....	6	.....	9	.....	ssw.	0	0	high	ssw.	misty.
S. S. Waldensian, N. 47° 03′, W. 38° 53′*	29.75	755.6	40	4.4	.....	w.	.....	.....	7	.....	10	.....	w.	light	light	h'vy	w.	squally.
AMERICAN STEAMSHIP COMPANY.																		
S. S. British Crown, N. 41° 24′, W. 46° 18′†	30.38	771.6	44	6.7	.....	nw.	.....	.....	4	.....	7	.....	nnw.	2 h'r	2 h'r	r'gh	nnw.	cloudy.
S. S. Illinois, N. 49° 46′, W. 21° 07′	29.76	755.9	55	12.8	93	sw.	.....	.....	6	.....	2	.....	w.	.....	.....	h'vy	sw.	fair.
S. S. Indiana, Philadelphia, Pa.†	29.54	750.3	63	17.2	52	nw.	.....	.....	3	.....	5	.....	nw.	h'vy	h'vy	.....	.....	fine.
S. S. Ohio, Liverpool, Eng†	29.87	758.7	50	10.0	93	nw.	.....	.....	5	.....	4	.....	nw.	.....	.....	.....	.....	fine.
S. S. Pennsylvania, N. 47° 45′, W. 29° 41′†	29.65	753.1	48	8.9	92	wsw.	.....	.....	8	.....	.....	.....	wsw.	.....	.....	h'vy	wsw.	d. clouds.
ANCHOR LINE.																		
S. S. Assyria, N. 43° 52′, W. 37° 52′*†	29.98	761.5	50	10.0	.....	w.	.....	.....	6	.....	8	.....	w.	.....	.....	r'gh	w.	rainy.
S. S. Devonia, N. 49° 47′ W. 34° 05′†	29.39	746.5	55	12.8	.....	wsw.	.....	.....	5	.....	2	.....	wsw.	.....	.....	h'vy	wsw.	clear.
S. S. Galatia, N. 50° 11′, W. 2° 55′†	30.29	769.4	.....	.....	.....	wsw.	.....	.....	6	.....	0	.....	.....	0	0	mod.	.....	clear.
S. S. India, N. 23° 07′, E. 37° 00′*	29.86	758.4	82	27.8	96	n.	.....	.....	1	.....	0	.....	.....	.....	.....	.....	.....	fair.
ATLAS LINE.																		
S. S. Atlas, Port Au Prince, Hayti, W. I.†	30.12	765.0	86	30.0	65	ne.	.....	.....	1–2	.....	2	.....	sw.	0	0	.....	.....	fair.
S. S. Alvo, Savanilla, U. S. C.	29.80	756.9	110?	43.3?	.....	ne.	.....	.....	6	.....	1	.....	ne.	0	0	.....	.....	fair.
S. S. Arden, N. 23° 30′, W. 74° 15′	.....	.....	.....	.....	.....	ne.	.....	.....	2	.....	5	.....	ne.	.....	.....	mod.	.....	showery
S. S. Claribel, Kingston, Jamaica, W. I. *†	30.16	766.1	80	26.7	86	calm	.....	.....	0	.....	6	.....	calm	0	0	.....	.....	cloudy.
BRITISH METEOROLOGICAL OFFICE.																		
Bk. Arran, S. 16° 00′ W. 28° 36′	30.07	763.8	82.5	28.1	71	ese.	.....	.....	1	.....	0	.....	.....	.....	.....	.....	.....	blue sky.
S. Baroda, N. 10° 28′, E. 81° 48′	29.74	755.4	87.3	30.7	75	calm	.....	.....	0	.....	5	.....	.....	.....	.....	.....	.....	misty.
British Merchant, S. 20° 34′, E. 72° 36′	29.92	760.0	79.3	26.3	78	se.	.....	.....	5	.....	3	.....	.....	.....	.....	.....	.....	misty.
CUNARD LINE.																		
S. S. Parthia, N. 49° 29′, W. 21° 55′†	29.78	756.4	.....	.....	.....	s.	.....	.....	5	.....	1	.....	ssw.	0	0	long	wnw.	
S. S. Scythia, N. 40° 33′, W. 67° 11′	29.40	746.7	50	10.0	93	ssw.	.....	.....	5	.....	1	.....	ssw.	12 h'r	12 h'r	r'gh	ssw.	clear.
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. Canada, Havre, France	30.28	769.1	53.6	12.0	.....	sw.	.....	.....	6	.....	3	.....	sw.	5 h'r	5 h'r	.....	.....	clear.
S. S. France, N. 47° 08′, W. 31° 40′†	29.71	754.7	51.8	11.0	.....	wsw.	.....	.....	6	.....	.....	.....	sw.	light	light	h'vy	sw.	light rain.
S. S. St. Germain, N. 40° 30′, W. 70° 42′	.....	.....	59.0	15.0	.....	sw.	.....	.....	4	.....	.....	.....	sw.	0	0	h'vy	s.	clear.
GUION LINE.																		
S. S. Wisconsin, N. 41° 30′, W. 63° 30′*†	29.64	752.8	48	8.9	36	sse.	.....	.....	4	.....	1	.....	ssw.	10 h'r	10 h'r	mod.	se.	fair.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Lessing, N. 45° 34′, W. 32° 32′	29.63	752.5	70?	21.1?	.....	sw.	.....	.....	7	.....	8	.....	sw.	0	0	long	sw.	
S. S. Silesia, New York, N. Y.†	29.40	746.7	50.4	10.2	.....	sw.	.....	.....	4	.....	8	.....	sw.	5 h'r	5 h'r	.....	.....	cloudy.
JOHNSTON LINE.																		
S. S. Thanemore, N. 49° 19′ W. 21° 04′	29.77	756.1	.....	.....	.....	wsw.	.....	.....	6	.....	2	.....	sw.	sh'rs	sh'rs	.....	w.	clear.
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, N. 8° —′, W. 27° —′*†	30.19	766.8	79	26.1	.....	ne.	.....	.....	2	.....	9?	.....	e.	0	0	sm'h	.....	clear.?
S. S. Humboldt, N. 8° 02′, W. 34° 00′*	30.00	762.0	83.0	28.3	81	sso.	.....	.....	2	.....	3	.....	.....	0	0	2	s.	d. clouds.
LEYLAND LINE.																		
S. S. Iberian, N. 46° 58′, W. 41° 15′	29.51	749.5	.....	.....	.....	wsw.	.....	.....	7	.....	10	.....	w.	8 h'r	8 h'r	high	w.	
MALLORY LINE.																		
S. S. Colorado, N. 35° 21′, W. 74° 08′†	30.08	764.0	70	21.1	.....	sw.	.....	.....	6	.....	6	.....	sw.	14 h'r	14 h'r	high	sw.	hazy.
MERCHANTS' EXPRESS LINE.																		
S. S. Freja, N. 48° 29′, W. 26° 03′†	29.71	754.6	56	13.3	87	sw.	.....	.....	7	.....	5	.....	wsw.	0	0	high	wsw.	
MERCHANT STEAMSHIP COMPANY.																		
S. S. Glenapp, N. 36° 22′, W. 72° 02′.*†	29.60	751 8	.....	.....	.....	sw.	.....	.....	6–8	.....	8	.....	sw.	0	0	high	sw.	cloudy.
NATIONAL LINE.																		
S. S. Denmark, N. 40° 27′. W. 68° 56′	29.37	746.0	48	8.9	.....	ssw.	.....	.....	5	.....	8	.....	wsw.	8 h'r	8 h'r	r'gh	ssw.	hazy.
S. S. England, Off Tuskar, Ireland	30.11	764.8	.....	.....	.....	w.	.....	.....	5	.....	2	.....	.....	0	0	.....	.....	clear.
S. S. Erin, London, England	30.03	762.7	64	17.8	.....	w.	.....	.....	6	.....	5	.....	wnw.	1 h'r	1 h'r	.....	.....	fine.
S. S. Helvetia, N. 51° 14′, W. 11° 00′	.....	.....	56	13.3	.....	wsw.	.....	.....	3	.....	6	.....	wsw.	light	light	mod.	wsw.	
NEW YORK, HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, New York, N. Y*†	29.44	747.8	54	12.2	.....	sw.	.....	.....	5	.....	9	.....	s.	0	0	.....	.....	cloudy.
S. S. City of Puebla, Vera Cruz, Mexico†	29.73	755.1	76	24.4	.....	sse.	.....	.....	1	.....	0	.....	.....	.....	.....	.....	.....	
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Atlas, N. 20° 15′, W. 73° 35′*†	30.14	765.5	81	27.2	.....	e.	.....	.....	1	.....	.....	.....	.....	.....	.....	sm'h	.....	clear.
S. S. New York, N. 28° 35′, W. 88° 30′*†	29.95	760.7	78	25.6	.....	wnw.	.....	.....	3	.....	.....	.....	.....	.....	.....	.....	sw.	squally.
S. S. W. A. Scholten, N. 46° 40′, W. 29° 00′	29.75	755.6	54.6	12.6	.....	wsw.	.....	.....	6	.....	.....	.....	.....	.....	.....	high	.....	
NORTH GERMAN LLOYD.																		
S. S. Elbe, N. 41° 37′ W. 52° 48′	30.31	769.8	42.8	6.0	52	s.	.....	... ...	1–2	.....	5	.....	s.	0	0	mod.	w.	fair.
S. S. Graf Bismarck, N. 2° 46′, W. 29° 50′	30.08	764.0	83.3	28.5	.....	ene.	...	.....	5	.....	8	.....	e.	½ h'r	½ h'r	mod.	ese.	cloudy.
S. S. Koln, N. 49° 42′, W. 11° 46′	30.14	765.5	56.0	13.3	75	wsw.	.....	.....	5	.....	5?	.....	wsw.	0	0	mod.	wsw.	cloudy ?
S. S. Kronprinz F. Wilhelm, N. 49° 38′ W 22° 58′	29.70	754.4	53 6	12.0	.....	sw.	.....	.....	4	.....	7	.....	wsw.	sh'rs	sh'rs	7	wsw.	fair.
S. S. Main, N 49° 42′, W. 17° 33′	30.01	762.2	55.4	13.0	.....	ssw.	.....	.....	4–5	.....	10	.....	sw.	rain	rain	r'gh	sw.	light rain.
S. S. Mosel, N. 49° 49′ W. 15° 20′	30.06	763.5	55	12.8	.....	ssw	.....	.....	6	.....	2	.....	wsw.	2 h'r	2 h'r	h'vy	wsw.	clear.
S. S. Nurnburg, N. 47° 40′, W. 31° 40′*	29.58	751.3	50	10.0	.....	wsw.	.....	.....	6	.....	8	.....	wsw.	12¾ h	ours	h'vy	sw.	cloudy.
S. S. Oder, N. 41° 29′, W. 60° 56′	29.96	761.0	56.3	13.5	.....	s.	.....	.....	6	.....	9	.....	sw.	rain	rain	high	sw.	rainy.
S. S. Ohio, N. 42° 33′, W. 41° 52′	30.06	763.5	.....	.....	.....	nw.	.....	.....	6	.....	6	.....	nw.	5 h'r	5 h'r	cross	nw.	fair.
S. S. Rhein, N. 43° 30′, W. 41° 05′	29.88	758.9	.....	.....	.....	nw.	.....	.....	6	.....	4	.....	nw.	rain	rain	high	nw.	squally.
S. S. Saller, N. 40° 28′, W. 69° 40′	29.39	746.5	48.2	9.0	.....	sw.	.....	.....	6	.....	2	.....	.....	9 h'r	9 h'r	long	sw.	fair.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Belgic, N. 37° 47′. W. 124° 30′†	30.20	767.1	54	12.2	61	nw.	.....	.....	5	.....	5	.....	nw.	0	0	high	nw.	fair.
S. S. Oceanic, Hong Kong, China*...	29.88	758.9	71	21.7	71	s.	.....	.....	2	..	.....	.....	.....	.....	.....	.....	.....	cloudy.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, New York, N. Y†	29.33	745.0	.....	.....	.....	sw.	.....	.....	4	.....	8?	.....	sw.	0	0	.....	.....	clear?
S. S. Seminole, Savannah, Ga.†	29.82	757.4	70	21.1	80	sw.	.....	.....	.....	.....	10	.....	w.	8 h'r	8 h'r	.....	.....	raining.
OREGON IMPROVEMENT COMPANY.																		
S. S. Willamette, N. 41° 40′, W. 124° 41′*†	30.22	767.6	48	8.9	85	calm	.....	.....	0	.....	7	.....	se.	0	0	high	nw.	cloudy.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. City of Chester, Departure Bay, Alaska*†	29.90	759.4	36	2.2	90	se.	.....	.....	1	.....	0	.....	.....	.....	.....	.....	.....	clear.
S. S. Columbia, N. 37° 48′, W. 122° 28′†	30.08	764.0	48	8.9	78	w.	.....	.....	5	.....	2	.....	.....	.....	.....	sm'h	.....	clear.
S. S. Oregon, Portland, Oregon†	30.04	763.0	47	8.3	92	calm	.....	.....	0	.....	8	.....	sw.	.....	.....	.....	.....	fair.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, N. 34° 22′, W. 120° 05′†	30.02	762.5	50	10.0	79	nw.	.....	.....	6	.....	2	.....	nw.	.....	.....	mod.	w.	fair.
S. S. Idaho, San Francisco, Cal.†	30.20	767.1	47	8.3	77	nw.	.....	.....	3	.....	0	.....	.....	.....	.....	.....	.....	clear.
S. S. State of California, San Francisco, Cal†	30.09	764.3	45	7.2	61	nnw.	.....	.....	3	.....	0	.....	.....	.....	.....	.....	.....	clear.
S. S. Victoria, Nanaimo, Vancouver's I'd, B.C.†	29.86	758.5	37	2.8	81	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	.....	clear.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, S. 33° 51′, E. 152° 40′	30.22	767.6	71	21.7	90	e.	.....	.....	2	.....	2	.....	ene.	.....	.....	sm'h	e.	clear
S. S. City of New York, Sydney, N. S. W.†	30.23	767.8	70	21.1	90	calm	.....	.....	0	.....	0?	.....	.....	.....	.....	.....	.....	overcast.?
S. S. City of Pekin, N. 15° 48′ W. 97° 17′†	29.92	760.0	82	27.8	83	wnw	.....	.....	5	.....	2	.....	w.	.....	.....	sm'h	.....	fair.
S. S. City of Rio de Janeiro, N. 7° 15′, W. 82° 13′*†	30.12	765.0	83	28.3	79	n.	.....	.....	4	.....	3	.....	e.	.....	.....	mod	se.	clear.
S. S. City of Tokio, N. 35° 06′, W. 172° 03′†	30.29	769.4	58	14.4	76	calm	.....	.....	0	.....	10	.....	se.	0	0	sm'h	.....	cloudy.
S. S. Clyde, N. 14° 20′, W. 92° 09′†	29.97	761.2	81	27.2	83	n.	.....	.....	1	.....	2	.....	nw.	0	0	tight	s.	clear.
S. S. Colon, N. 20° 08′, W. 74° 07′†	30.06	763.5	83	28.3	.....	nne.	.....	.....	2	.....	5	.....	nne.	0	0	sm'h	nne.	fair.
S. S. Granada, N. 35° 30′, W. 121° 46′†	30.11	764.8	50	10.0	86	nnw.	.....	.....	6	.....	5	.....	nw.	0	0	large	nnw.	hazy.
S. S. South Carolina, Panama, Panama†	30.03	762.7	84	28.9	79	nw.	.....	.....	2	.....	5	.....	e.	0	0	sm'h	.....	fair.
S. S. Zelandia, N. 11° 28′, W. 161° 48′†	29.98	761.5	78	25.6	91	e.	.....	.....	5	.....	10	.....	e.	.....	.....	mod.	e.	cloudy.
QUEBEC S. S. COMPANY.																		
S. S. Muriel, Martinique, W. I.	30.04	763.0	82	27.8	.....	ene.	.....	.....	3	.....	0	.....	.....	.....	.....	sm'h	.....	fair.
S. S. Bermuda, N. 24° 53′, W. 65° 30′†	30.20	767.1	.....	.....	.....	ese.	.....	.....	5	.....	7	.....	e.	0	0	mod.	e.	fine.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
Red Star Line.																		
S. S. Belgenland, N. 50° 34′, W. 1° 18′†	30.24	768.1	55	12.8	93	wsw.			5		9?		wsw.	3 h'r	3 h'r	mod.	w.	clear?
S. S. Rhynland, N. 40° 30′, W. 54° 31′	30.23	767.8	58	14.4	82	sse.			3		2		sse.	0	0	light	sse.	fair.
S. S. Switzerland, N. 50° 03′ W. 4° 12′†	30.28	769.1				sw.			5		1		sw.	4 h'r	4 h'r	mod.	sw.	clear.
S. S. Vaderland, Antwerp, Belgium	29.89	759.2	55	12.8	80	ssw.			5		8		w.	3 h'r	3 h'r			hazy.
S. S. Waesland, N. 41° 01′, W. 43° 40′	30.12	765.0	48	8.9		nw.			6		8		nw.	rain	rain	mod	nw.	fair.
Rotterdam Line.																		
S. S. Schiedam, N. 40° 31′ W. 71° 07′*	29.37	746.0	51.6	10.9	92	s.			5		7		sw.	4 h'r	4 h'r	high	sw.	cloudy.
State Line.																		
S. S. State of Florida, Glasgow, Scotland	29.69	754.1	58	14.4		ssw.			4		6?		sw.	2 h'r	2 h'r			cloudy.?
S. S. State of Indiana, N. 48° 09′ W. 36° 30′†	29.24	742.7	45	7.2		nnw.			6		5		nnw.	8 h'r	8 h'r	mod.	nw.	squally.
Thingvalla Line.																		
S. S. Thingvalla, N. 53° 66′ W. 32° 02′.†	29.58	751.3	47.3	8.5		sw.			5		6		sw.	5 h'r	5 h'r	cross	sw.	covered.
Warren Line.																		
S. S. Iowa, N. 49° 55′, W. 19° 44′*†	29.95	760.7	56	13.3		s.			6		10		s.	3 h'r	3 h'r	mod.	wsw.	hazy.
White Cr 88 Line																		
S. S. Hermann, N. 47° 19′ W. 27° 39′†	29.75	755.6				wsw.			6		5 k		sw.	rain	rain	hv'y	wsw.	fair.
White Star Line.																		
S. S. Celtic, N. 41° 28′, W. 62° 02′†	29.65	753.1	54	12.2		s.			6		10		s.	4 h'r	4 h'r	h'vy	sw.	rainy.
Wilson Line.																		
S. S. Salerno, N. 49° 32′ W. 21° 13′*	29.75	755.6	54	12.2	87	ssw.			7		3		ssw.			high	sw.	d. clouds.
W nsor Line.																		
S. S. Catherine Whiting, Barnegat, N. J.†	29.56	750.8				sw.			1				sw.	0	0	short	s.	
S. S. Norman, N. 39° 50′, W. 73° 50′	29.35	745.5				sw.			3		8		ssw.	2 h'r	2 h'r	hv'y	s.	cloudy.
Miscellaneous.																		
Schr. Abbie Clifford, N. 40° 40′, W. 67° 58′*†	29.62?	752.3?	48	8.9		wsw.			5		o			8 h'r	8 h'r	rg'h	sw.	fair.
Schr. Addie Fuller, N. 34° 00′. W. 76° 34′†	29.80	756.9	72	22.2	80	wsw.			4		10 s		w.	0.31	7.9	h'vy	sw.	threatening.
Bk. Adelaide, Rio de Janeiro, Brazil*†	30.00	762.0	80	26.7		calm			0									
Schr. Ajax, Mobile, Ala†	29.96	761.0				n.			1		3		w.	0	0			fair.
Bk. Alpha, Santiago de Cuba, W. I†	29.97	761.2	76	24.4		calm			0		2			0	0			fair.
Schr. Annie Lewis, N. 29° 10′, W. 87° 04′†	29.94	760.5	75	23.9		nw.			4		2		nw.	1 h'r	1 h'r	r'gh	sw.	clearing.
Bk Antioch, S. 39° 15′, E. 12° 00′*†	29.74	755.4	60	15.6		wsw.			7		9		wsw.	1 h'r	1 h'r	r'gh	wsw.	squally.
Schr. Asa Eldridge, Key West, Fla†	30.05	763.3				s.			4		2		s.	0	0			hazy.
Bk. Aureola, S. 0° 54′ W. 28° 41′*†	30.06	763.5	95	35.0		ese.			4		2		se.	0	0	mod.	se.	clear.
Schr Annie M. Smull, S. 41° 40′. E. 57° —′*†	29.30	744.2	54	12.2		wsw.							wsw.	2 h'r	2 h'r			
Bkt. Carrie Heckle, N. 20° 45′ W. 79° 20′*†	30.16	766.1	80	26.7		ene.			2		2		ene.	0	0	sm'h	se.	clear.
Bk. Celestina, S. 31° 54′ W. 46° 11′*†	30.07	763.8				ssw.			1		4		sw.	0	0	high	con.	
Bk. Champion, N. 46° 35′, W. 23° 09′†	29.91	759.7				wsw.			5		10		w.	8 h'r	8 h'r	r'gh	sw.	
S. S. Compton, Cardenas, Cuba, W. I†	30.06	763.5				sse.			1		0			0	0			clear.
S. Dora, N. 35° 45′ W. 72° 15′†	29.72	754.9	68.9	20.5		wsw.			7–8		9		wsw.	5 h'r	5 h'r	high	wsw.	raining.
Bk. E. L. Pettingill, N. 34° 04′ W. 129° 15′†	30.50	774.7				n.			5		8		n.	0	0	mod.	n.	d. clouds.
S. Enoch Train, N. 40° 34′ W. 37° 30′*	29.83	757 7				w.			4		10		wnw.	shr's	shr's	hv'y	con.	cloudy.
S. Exporter, N. 3° 40′, W. 25° 30′*†	30.10	764.5				ese.			3		2		se.	2 h'r	2 h'r	long	e.	fine.
S. Festina Lente, N. 39° 47′, W. 52° 20′*	30.29	769.4	50	10.0		sse.			1		0			0	0	sm'li		clear.
U.S. F. C. S. Fish Hawk, Quantico, Va†	29.71	754.6	64	17.8	73	wsw.			3		2		sw.	0	0			clear.
S. Grecian, S. 41° 20′, . 14° 44′*†	29.55	750.6	53	11.7		w.			6		8		w.	1 h'r	1 h'r	cross	w.	squally.
Bk. Freya, N. 42° 59′, W. 34° 57′			56	13.3		wsw.			6		2		wsw.	4 h'r	4 h'r	high	wsw.	squally.
Bk. Granville, Algoa Bay, Africa*†	30.00	762.0				n.			1				n.	0	0			clear.
Bk. Hattie G. McFarland, Baltimore, Md.*†	29.48	748.8	60	15.6		nnw.			6		4		wnw.	shr's	sh'rs			fair.
Schr. Henry Denison, N. 21° 00′, W. 73° 53′†	30.04	763.0				nne.			3		2		ene.	0	0	sm'li	ene.	fair.
S. Hedwig, N. 39° 32′, W. 51° 07′	30.33	770.4	51.3	10.7	71	calm.			0		4		w to se.	2 h'r	2 h'r	3	nw.	fine.
Schr. John L. Thomas, N. 17° 00′, W. 77° 08′*†	30.14	765.5				e.					3		se.	0	0	hv'y	se.	fine.
Bg John Wesley, Sagua la Grande, Cuba, W. I.†	29.89	759.2	79	26.1		s.			1		0			0	0			clear.
Bk. Jona, N. 45° 07′, W. 28° 30′*†	30.10	764.5				wsw.			3		5		wsw.	hv'y	hv'v	high		squally.
Bkt. Josephine, N. 9° 33′, W. 79° 54′*†	30.05	763.3	83	28.3	70	n.			5		8		nne.	1 hr	1 h'r	mod.	ne.	gloomy.
Bk. Kate Cann, N. 49° 33′, W. 9° 54′						se.			2		10		s.	0	0	hv'y	wnw.	overcast.
Bkt. Kryolith, N. 40° 52′, W. 11° 20′*†	30.20	767.1				n.			1		8		wnw.	0	0		wnw.	cloudy.
S. Lake Erie, N. 42° 42′ W. 39° 50′	29.89	759.2				w.			7		8?		nw.	sleet	sleet	hv'y	nw.	clear.?
Bk. Liberia, N. 10° 57′, W. 19° 56′*†	30.00	762.0	75	23.9	81	n.			4		4		n.	0	0			
Light House Tender, Laurel, Key West, Fla†	30.02	762.5	79	26.1		s.			3		3		ssw.	0	0			clear.
Schr. Maggie Abbott, N. 21° —′, W. 72° —′*†	30.00	762.0				e.							e.	0	0			cloudy.
S. S. Malabar, N. 33° 31′, E. 26° 27′*†	30.06	763.5				e.			1				e.	0	0	sm'li		cloudy.
Bg. Medina, Key Francis, W. I.†	30.17	766.3				se.			1		1		se.					fine.
S. S. Nebo, Santos, Brazil*†	29.90	759.4				nnw.			1		10			16 h'r	16 h'r			drizzling.
S. S. New York, N. 37° 16′, W. 1° 11′*†	30.45	773.4				e.			1					0	0	sm'li		fair.
Bk. Peppina, Gironde River, France†	30.23	767.8	65	18.3	83	n.			1		0							clear.
S. Salisbury, N. 0° 07′, W. 25° 09′*	30.00	762.0	90.3	32.4	87	ese.			2–3		4		e.	½h'r	½h'r	sm'li	ene.	fair.
Schr. S. B. Hubbard, Hampton Roads, Va*†	29.55	750.6	60	15.6		sw.			1		2		sw.	1 h'r	1 h'r			fine
Bkt. Spotless, S. 9° 21′, W. 33° 34′*†	29.90	759.4				calm			0							mod.	sw.	squally.
Bk. Stella, S. 39° 19′, W. 82° 30′*†	30.16	766.1	55.0	12.8	90	n.			6		5		ne.	0	0	sm'li	var.	d. clouds.
S. Washington, N. 37° 19′, W. 50° 52′*†	30.24	768.1				nnw.			1		2		nw.	0	0	chop	nnw.	fair.
Bg. Wauburn, N. 4° 07′, W. 39° 22′*†	30.00	762.0				ene.			6		5		ene.			short	n;ne	
S. Wm. Woodbury, N. 38° 39′, W. 40° 36′*†	29.92	760.0	56	13.3		wnw.			9				w.			light	w.	squally.

International Chart I. April 20, 1882. Isobars and Isotherms.



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON APRIL 21, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
ALGERIAN.																			
Nemours	.....	.....	30.14	765.6	74.8	23.8	88	ne.	.....	.....	3	.....	0	.....	.....	0	0	clear	Moiroud.
Algiers	.....	.....	30.17	766.2	66.2	19.0	61	nne.	.....	.....	2	.....	1	.....	.....	0	0	very fair	Nicolas.
La Calle	.....	.....	30.19	766.8	70.5	21.4	68	nnw.	.....	.....	2	.....	3	.....	.....	0	0	pretty fair	Fonfrède.
Tunis	.....	.....	30.17	766.3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.19	766.7	80.2	26.8	16	n.	.....	.....	2	.....	0	.....	.....	0	0	clear	Dumas.
Tebessa	.....	.....	30.20	767.1	63.0	17.2	74	n.	.....	.....	1	.....	1	.....	.....	0	0	very fair	Derché.
Geriville	.....	.....	.....	.....	75.6	24.2	11	ne.	.....	.....	3	.....	3	.....	.....	0	0	pretty fair	Louchamp.
Laghouat	.....	.....	30.25	768.4	75.2	24.0	57	nw.	.....	.....	1	.....	0	.....	.....	0	0	clear	Abraham.
Biskra	.....	.....	30.24	768.0	81.0	27.2	19	n.	.....	.....	1	.....	0	.....	.....	0	0	clear	Malau.
AUSTRALIAN.																			
Melbourne, Victoria	29.80	756.9	29.90	759.4	71.0	21.7	51	ne.	6	2.7	.....	.....	10	.....	.....	0	0	dull	R. L. J. Ellery.
AUSTRO-HUNGARIAN.																			
Agram	29.68	753.8	30.23	767.8	57.2	14.0	64	ne.	.....	.....	2	.....	10	.....	.....	0	0	.....	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.44	747.8	30.21	767.4	54.0	12.2	67	wsw.	11.9	5.3	.....	.....	10	.....	.....	0	0	.....	Dr. Wierzbiski.
Eperies	29.19	741.4	30.05	763.3	64.4	18.0	46	n.	.....	.....	2	.....	10 ke	.....	.....	0	0	.....	Julius Mikolik.
Gratz	29.00	736.5	30.24	768.0	60.6	15.9	48	nw.	.....	.....	4	.....	9	.....	.....	0	0	.....	Andreas Rospini.
Hermannstadt	28.66	727.9	30.07	763.7	63.0	17.2	50	nnw.	.....	.....	2	.....	2	.....	.....	0	0	.....	Prof. A. Gottschling
Kremsmunster, Obs'y	28.98	736.1	30.34	770.5	54.3	12.4	58	wnw.	.....	.....	2	.....	7	.....	.....	0.146	3.7	fair	The Staff.
Lemberg	29.09	738.9	30.06	763.5	62.2	16.8	48	nw.	.....	.....	1	.....	9	.....	.....	0	0	.....	Dr. T. Stanecki.
Pola	30.04	763.1	30.15	765.9	68.7	20.4	36	e.	.....	.....	5	.....	3	.....	.....	0	0	.....	I. R. Hydrographic Office.
Szathmar	29.61	752.1	30.07	763.8	66.2	19.0	37	w.	.....	.....	4	.....	1	.....	.....	0	0	.....	Joseph Midlinszky, S. J.
Szegedin	29.84	757.8	30.11	764.8	64.8	18.2	35	calm	.....	.....	0	.....	2	.....	.....	0	0	.....	Karl Stancel.
Trieste	30.11	764.7	30.21	767.3	70.5	21.4	31	ne.	.....	.....	1	.....	10	.....	.....	0	0	.....	Rieder.
Vienna	29.57	751 0	30.28	769.2	58.3	14.6	42	nw.	.....	.....	3	.....	9	.....	.....	0.035	0.9	.....	I. R. Central Met. Obs'y.
BRITISH.																			
Aberdeen	29.83	757.7	29.92	760.0	53.7	12.1	60	ssw.	21	9.4	.....	.....	7	.....	.....	0	0	d. clouds	W. Boswell.
Armagh, Observatory	29.78	756.4	30.02	762.5	53.1	11.7	73	sw.	19	8.5	.....	.....	10	.....	.....	.....	.....	overcast	S. Call.
Bidston, Liverpool Obs'y	.....	.....	30.10	764.5	54.1	12.3	68	se.	14	6.3	.....	.....	10	.....	.....	.....	.....	overcast	John Hartnup.
Bolton, Sharples	29.58	751.3	30.12	765.0	53.9	12.2	66	ssw.	12	5.4	.....	.....	10	.....	.....	.....	.....	overcast	Thomas Mackereth. [A.S.
Bradford, Yorkshire	29.69	754.1	30.09	764.3	59.0	15.0	90	sw.	.....	.....	2	.....	4	.....	.....	0	0	d. clouds	J. McLandsborough, F. R
Bridgetown, Barbadoes	30.05	763.3	30.08	764.0	82.0	27.8	67	ne.	.....	.....	2	.....	3	.....	.....	.....	.....	d. clouds	Corpl. J. Surgenor, A. H.C.
Cardington	.....	.....	30.20	767.1	63.0	17.2	59	sw.	.....	.....	1.0	.....	7	.....	.....	.....	.....	d. clouds	John McLaren.
Chatham, School M. E	30.13	765.3	30.26	768.6	60.4	15.8	65	s.	.....	.....	2	.....	8	.....	.....	.....	.....	d. clouds	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	29.88	758.9	30.11	764.8	54.0	12.2	80	ese.	.....	.....	2	.....	7	.....	.....	.....	.....	overcast	The Staff.
Fort Napier, Natal	27.53	699.2	29.74	755.4	72.2	22.3	67	e.	.....	.....	1	.....	3	.....	.....	.....	.....	blue sky	Pvt. E. K. Annis, A. H.C.
Free Town, Sierra Leone	29.68	753.9	29.91	759.7	87.0	30.6	69	w.	.....	.....	1	.....	3	.....	.....	.....	.....	.....	Sergt. John Robinson.
Gibraltar, Mediterranean	30.16	766.1	30.21	767.3	71.6	22.0	71	e.	.....	.....	4	.....	0	.....	.....	.....	.....	blue sky	Opl. O. Baldwin.
Glasgow, Observatory	29.78	756.4	29.98	761.5	52.0	11.1	66	ssw.	.....	.....	4	.....	10 k	.....	.....	.....	.....	gloomy	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	30.08	764.0	30.24	768.1	63.1	17.3	63	ssw.	.....	.....	1	.....	8	.....	.....	.....	.....	d. clouds	The Staff.
Guernsey	29.78	756.4	30.08	764.0	56.5	13.6	77	sse.	.....	.....	1	.....	5	.....	.....	.....	.....	d. clouds	A. Collenette, F. M. S.
Kew, Observatory	30.21	767.3	30.24	768.1	60.5	15.8	59	s.	11	4.9	.....	.....	8	.....	.....	.....	.....	d. clouds	The Staff.
Leicester, Museum	29.90	759.4	30.15	765.8	62.2	16.8	36	sw.	.....	.....	1	.....	8	.....	.....	.....	.....	d. clouds	J. C. Smith.
Malta, Mediterranean	29.98	761.5	30.05	763.3	66.2	19.0	67	nw.	.....	.....	3	.....	1	.....	.....	.....	.....	blue sky	I. H. Whysall.
Nassau, Bahamas	30.05	763.3	30.10	764.5	80.0	26.7	76	sw.	.....	.....	2	.....	5	.....	.....	.....	.....	d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.64	752.8	30.16	766.1	59.3	15.2	52	s.	.....	.....	1	.....	7	.....	.....	.....	.....	d. clouds	John Mac Email.
Oxford, Radcliffe Obs'y	29.98	761.5	30.21	767.3	58.1	14.5	64	ssw.	.....	.....	3	.....	1	.....	.....	.....	.....	misty	The Staff.
Plymouth	30.06	763.5	30.13	765.3	59.0	15.0	67	ese.	.....	.....	3	.....	8	.....	.....	.....	.....	d. clouds	John Merrifield.
Sandwick Manse, Orkneys	.....	.....	29.78	756.4	47.9	8.8	81	s.	20	8.9	.....	.....	6	.....	.....	.....	.....	showery	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.96	761 0	30.03	762.7	62.8	17.1	65	ne	.....	.....	2	.....	1	.....	.....	.....	.....	misty	W. H. Lyne.
Sheffield	29.86	758.4	30.14	765.5	58.3	14.6	83	sw.	.....	.....	2	.....	4	.....	.....	0.02	0.5	d clouds	W. F. Cooper.
Silloth Rectory	30.02	762.5	30.05	763.3	52.8	11.6	71	sw.	.....	.....	6	.....	4	.....	.....	0	0	d clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	30.12	765.0	55.0	12.8	55	sw.	12	5.4	.....	.....	9	.....	.....	.....	.....	misty	Rev. S. J. Perry.
Stratfield Turgiss	.....	.....	.....	.....	62.1	16.7	48	sw.	.....	.....	1	.....	2	.....	.....	.....	.....	blue sky	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	30.02	762.5	30.05	763.3	61	16.1	76	se.	.....	.....	4	.....	6	.....	.....	.....	.....	d clouds	W. Newcombe.
Valencia, Observatory	29.97	761.2	29.99	761.7	56.9	13.8	74	sse.	26	11.6	.....	.....	7	.....	.....	.....	.....	misty	The Met'g'l Office.
CANADIAN.																			
Bathurst, N. B	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.36	745.7	29.41	747.0	37	2.8	97	calm	0	0	.....	.....	10 s	.....	.....	0.230	5.8	light fog	H. J. Cundall, C. E.
Chatham, N. B*	29.36	745.7	29.42	747.3	34	1.1	74	nw.	4	1.8	.....	.....	10 s	.....	nw.	0.32	8.1	cloudy	G. A. Blair.
Father Point, Quebec*	29.43	747.5	29.45	748.0	31	— 0.6	96	e.	40	17.9	.....	.....	10 n	.....	e.	0.55	14.0	threatening	J. McWilliams.
Fort Garry, Manitoba*	29.14	740.1	29.99	761.7	32	0.0	71	se.	2	0.9	.....	0	0	.....	.....	0	0	clear	James Stewart.
Halifax, N. S*	29.29	744 0	29.42	747.3	39	3.9	96	s.	2	0.9	.....	.....	fg.	.....	.....	1.130	28.7	foggy	A. Allison.
Kingston, Ontario*	29.22	742.2	29.55	750.6	38	3.3	85	w.	14	6.3	.....	.....	10 n	.....	nw.	0.06	1.5	light rain	A. P. Knight, M. A.
Montreal, Quebec*	29.21	741.9	29.41	747.0	33	0.6	96	n.	.....	.....	.....	.....	10 n	.....	n.	0.31	7.9	light snow	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.05	737.9	29.76	755.9	35	1.7	75	nw.	14	6.3	.. ..	5 k	5 ks	nw.	nw.	0.46	11.7	cloudy	Rev. R. Mosley.
Port Dover, Ontario	29.09	738.9	29.80	756.9	37	2.8	90	w.	10	4.5	.....	10 k	0	w.	.....	0.08	2.0	cloudy	H. Morgan.
Port Stanley, Ontario	29.18	741.2	29.84	757.9	37	2.8	79	w.	20	8.9	.....	0	8 k	.....	nw.	0.09	2.3	cloudy	M. Payne.
Quebec, Quebec*	29.14	740.1	29.46	748.3	32	0.0	92	ne.	.....	.....	5	.....	10 n	.....	ne.	0.66	16.8	light snow	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.16	740.7	29.62	752.3	35	1.7	79	nw.	6	2.7	.....	.....	10 s	.....	nw.	0.23	5.8	light snow	W. H. McIntyre.
Saugeen, Ontario*	29.09	738.9	29.82	757.4	35	1.7	75	nw.	25	11.2	.....	.....	10 ks	.....	.....	0.29	7.4	cloudy	
St. Andrews, N. B	29.35	745.5	29.40	746.7	35	1.7	90	calm	0	0	.....	.....	10 n	.....	.....	0.17	4.3	cloudy	
Sydney, C. B*	29.39	746.5	29.45	748 0	34	1.1	100	calm	0	0	.....	.....	fg	.....	.....	0.65	16.5	foggy	T. C. Hill, C. E.
Toronto, Ontario*	29.38	746.2	29.77	756.1	38	3.3	61	nw.	23	10.3	.....	.....	10 ks	.....	nw.	0.02	0.5	cloudy	Magnetic Observatory.
Yarmouth, N. S*	29.32	744.7	29.38	746.2	40	4.4	100	s.	2	0.9	.....	fg.	fg	.....	.....	0.02	0.5	dense fog	Lt. F. E. Wilmot, R. N.
Sub-series.																			
St. Johns, Newfoundland	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	John Delany.
CAPE COLONY.																			
Cape St. Francis Lt. House	29.92	760.0	29.95	760.7	69.0	20.6	70	w.	21.2	9.5	.....	0	2 s	.....	.....	0.020	0.5	hazy	John Duthie.
Cape Town, C. G. H. Obs'y	30.07	763.8	30.11	764.8	62.0	16.7	88	nw.	8	3.6	.....	10	9	.....	.....	0.230	5.8	.....	The Staff, for D. Gill.

STATIONS	Barometer: Corrected for instrumental error and for temperature. Inch.	Barometer: Corrected for instrumental error and for temperature. Mill.	Barometer: Reduced to sea-level. Inch.	Barometer: Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
CHINESE (*Sub-series*).																			
Hankow	29.77	756.1	30.04	763.0	68.7	20.4	80	se.			2		0			0	0		N. Titoushkin.
Zi-Ka-Wei, near Shanghai	30.02	762.6	30.05	763.2	57.0	13.9	85	ene.	5.6	2.5			10			0	0	covered	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	30.06	763.4	30.10	764.6	57.2	14.0	63	nw.	27	12			0						Oversergent Fischer.
Fanöe	30.17	766.3	30.19	766.8	51.6	10.9	89	w.			6		1						Overlœrer Lauridsen.
Godthaab, Greenland	29.93	760.3	29.98	761.4	23.9	— 4.5	86	nw.			3		10						S. Kleinschmidt.
Stykkisholm, Iceland	29.58	751.3	29.62	752.4	30.2	— 1.0	96	ne.			8		2						A. O. Thorlacius.
Thorshavn	29.54	750.3	29.58	751.2	51.4	10.8	73	sw.	22	10			3						Overlœrer Bergh.
Vestervig	30.01	762.3	30.10	764.6	49.6	9.8	87	wsw.			6		0						Lœrer Oesterbol.
FRENCH.																			
Agen, Normal School	29.51	749.5	30.13	765.4	73.8	23.2	72	sw.			1	c				0	0		M. Labroue, Director.
Alençon, Normal School	29.71	754.7	30.26	768.7	58.6	14.8	68	sse.			1			sse.	sse.	0	0		M. Nicot, Director.
Arras, Engineer School	30.00	761.9	30.25	768.4	63.0	17.2	55	sse.			1	ck;cs	0			0	0		Capt. Bertrand, Dir.
Avginon, Normal School	30.08	764.1	30.16	766.1	75.6	24.2	46	n.			1		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.72	754.9	30.27	768.8	65.8	18.8	25	se.			1		2			0	0	slightly cl'dy	M. Saillard, Director.
Beauvais, Normal School	30.04	762.9	30.30	769.6	60.3	15.7	50	se.			1		2			0	0	slightly cl'dy	M. Frère Eugène Marl.
Besançon, Normal School	29.25	742.9	30.14	765.6	67.3	19.6	55	sw.			1		1 cn		w.	0	0	clear	M. Gobin, Director.
Bordeaux, Observatory	29.86	758.4	30.12	765.0	70.5	21.4	54	ese.			1		10			0	0	covered	M. Rayet, Director.
Bourges, Normal School	29.69	754.2	30.29	769.3	67.1	19.5	27	se.			4	c	0	se.		0	0		M. Postel, Director.
Brest, Naval Observatory	29.86	758.4	30.10	764.6	64.4	18.0	56	s.			2		8		s.	0	0		M. de Kermarec, Dir.
Caen, Normal School	30.19	766.8	30.26	768.6	68.7	20.4	54	sse.			1		2		e.	0	0	slightly cl'dy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.95	760.6	30.26	768.6	67.3	19.6	42	se.			1		0			0	0	clear	M. Jadot, Director.
Charleville, Normal School	29.79	756.7	30.32	770.0	64.0	17.8	69	se.			1		0			0	0	clear	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.85	732.7	30.16	766.1	71.8	22.1	27	e.			1		0			0	0	clear	M. Alluard, Director.
Cluny, Normal School	29.40	746.8	30.24	768.2	68.0	20	40	nw.			1					0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.45	748.0	30.32	770.2	64.9	18.3	26	ese.			1		0			0	0	clear	Dr. Coulet, Director.
Gap, Normal School	27.65	702.2	30.12	765.0	69.8	21	27									0	0		M. Jeangirard, Director.
Gréasque, du. Rhone	29.04	737.7	30.15	765.9	75.6	24.2	33	sw.			3		2		s.	0	0		M. Klun, Director.
Grenoble, Normal School	29.42	747.2	30 17	766.2	68.7	20.4	51	ese.			1		sn			0	0		M. Ablard, Director.
Guéret, Normal School	28.60	726.4	30.14	765.5	68.0	20	26	se.			2	c	0	nw.		0	0		M. Rivoire, Director.
Lamballe, Normal School	29.98	761.4	30.24	768.2	65.8	18.8	41	se.			2		5		se.	0	0	cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.55	750.5	30.09	764.3	78.8	26	42	wnw.			1		2			0	0	slightly cl'dy	M. Chauvin, Director.
Lorient, Naval Observatory	30.07	763.8	30.17	766.4	65.3	18.5	67	se.			3		8		s.	0	0	¾ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.18	741.2	30.23	767.8	66.7	19.3	46	nw.			1	2 c	0	nw.		0	0	slightly cl'dy	M. André, Director.
Mans, Normal School	29.93	760.1	30.23	767.9	64.6	18.1	42	sse.			3		2		nw.	0	0	slightly cl'dy	M. Piboen, Director.
Marseille, Observatory	29.90	759.4	30.16	766.1	70.9	21.6	48	sw.			1.2		4		wsw.	0	0		M. Stephan, Director.
Montlouis l'Instituteur	25.01	635.2	29.85	758.2	59.0	15.0	48	se.	5.6	2.5			5						M. Cave, for Dr. Fines.
Montpellier, Normal School	30.04	762.9	30.16	766.1	75.2	24.0	74	w.			3		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.53	750.0	30.31	769.8	63.5	17.5	39	n.			1		0			0	0	clear	M. Husse, Director
Nantes, Observatory	30.02	762.6	30.19	766.7	68.7	20.4	42	ese.			1–3	8 ck	0	wsw.		0	0		M. Larocque, Director.
Perpignan, Observatory	30.08	763.9	30.18	766.6	71.1	21.7	25	se.	9.4	4.2			3	n.		0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.44	544.6			42.4	5.8		sw.			1		5	n.	sw.	0	0	cloudy	Gen'l de Nansouty, Dir.
Privas, Normal School	29.10	739.1	30.13	765.4	71.2	21.8	28	calm			0		0			0	0	clear	M. Taillen.
Puy de Dôme Obs'y, Summit	25.35	643.8			47.3	8.5	51	se.			4	2 c	0			0.004	0.1	clear	M. Alluard, Director.
Rochefort, Naval Obs'y	30.13	765.2	30.16	766.0	69.8	21.0	100	se.			1		5			0	0	½ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.95	760.7	30.16	766.0	70.0	21.1	41	ne.			2		0			0	0	clear	M. Mouillot, Director.
Rodez, Normal School	28.04	712.1	30.12	765.1	72.3	22.4	42	ne.			1		0			0	0	clear	M. Serger, Director.
Rouen, Normal School	30.22	767.6	30.27	768.8	61.5	16.4	56	se.			1		0			0	0	clear	M. Brotier.
Saint Maur, Observatory	30.11	764.9	30.28	769.1	63.3	17.4	50	sse.			1			nw.		0	0		M. Renou, Director.
Toulouse, Observatory	29 47	748.6	30.20	767.1	66.4	19.1	88	se.			1		5		nw.	0	0	cloudy	M. Baillaud, Director.
Versailles, Observatory	29.79	756.7	30.28	769.2	62.2	16.8	41	s.			2					0	0		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	30.01	762.3	30.30	769.7	63.7	17.6	46	se.			1		6	nw.	se.	0	0		M. Marié Davy, Director
GERMAN.																			
Bamberg	29.47	748.4	30.33	770 4	60.1	15.6	40	w.			1	0	3 k		nw.	0.039	1.0		Prof. Dr. Hoh.
Berlin	30.05	763.3	30.22	767 7	62.1	16.7	35	nw.			3		8			0.028	0.7		Prof. Dr. Arndt.
Breslau	29.71	754.7	30.25	768.3	55.0	12.8	57	wnw.			3		5			0	0		Royal University Obs'y.
Carlsruhe	29.90	759.4	30.34	770.6	61.9	16.6	44	ne.			1		1	e.		0	0		Albert Senz.
Cassel	29.56	750.9	30.28	769.0	63.0	17.2	43	nw.			2		3	w.		0	0		Dr. H. Möhl.
Frankfort on the Main	29.94	760.5	30.30	769.7	63.9	17.7	44	wnw.			1		2			0.035	0.9		Physical Society.
Friedrichshafen	28.88	733.6	30.32	770.1	58.6	14.8	55	sw.			1		1	sw.		0	0		Wilhelm, Chef Tel.
Hamburg	30.18	766.5	30.27	768.9	59.4	15.2	59	wnw.			5		5			0	0		E. Preller.
Kiel	30.20	767.0	30.21	767.4	57.7	14.3	59	w.			4		3			0.051	1.3		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.85	758.3	30.28	769.0	59.4	15.2	36	nw.			5		6	sw.		0.098	2.5		H. Leppig, Asst.
Magdeburg	30.08	764.0	30.27	768.8	62.6	17.0	43	nw.			4	0	3 k		wnw.	0	0		Dr. Assmann.
Memel	29.93	760.2	29.98	761.4	46.6	8.1	85	wsw.			4		10					covered	Issermann.
Munich	28.52	724.4	30.41	772.3	56.5	13.6	40	n.			1		5	w.		0.146	3.7		Central Station.
Neufahrwasser	30.03	762.8	30.05	763.2	49.8	9.9	71	wnw.			4		10			0	0		A. Lothes.
Neustadt, Palatinate	29.80	756.8	30.33	770.3	62.2	16.8	48	e.			3		1			0	0		Dicknether.
Stuttgart	29.38	746.2	30.27	768.8	60.8	16.0	45	e.			1		1	n.		0	0		Prof. Dr. Schoder.
Wustrow	30.17	766.4	30.20	767.1	51.4	10.8	82	wsw.			3	0	3s			0	0		Profs. Brandes & Reimer.
GREEK.																			
Athens	29.58	751.4	29.97	761.2	70.0	21.1		ne.			4.0	8				0.039	1.0		Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.71	754.6	29.76	755.8	86.8	30.4	36	wsw.	30.0	13.4			0			0	0	misty	
Deesa	29.17	740.8	29.62	752.4	97.3	36.3	16	wsw.	7.0	3.1			0			0	0	blue sky	
Bombay	29.72	754 8	29.76	755.8	84.0	29.2	66	wnw.	10.0	4.5			0			0	0	blue sky	
Poona, Yarrowda	27.87	707.8	29.67	753.6	91.5	33.1	16	wnw.	17.0	7.6			1	w.		0	0	d. clouds	
Belgaum	27.19	690.7	29.68	753.8	84.8	29.3	47	sw.	12.0	5.4			0			0	0	misty	
Lahore	28.86	733.2	29.58	751.4	92.9	33.8	11	w.	3.1	1.4			0			0	0	blue sky	
Roorkee	28.68	728.5	29.55	750.5	94.2	34.6	27	calm	2.7	1.2			6			0	0	blue sky	
Agra	29.00	736.6	29.54	750.4	97.1	36.2	12	w.	5.5	2.5			3		w.	0	0		
Nagpur	28.59	726.2	29.61	752.1	90.7	32.6	28	n.	8.1	3.6			8		nw.	0	0	d. clouds	
Jubbulpore	28.25	717.5	29.54	750.4	100.7	38.2	16	sw.	4.6	2.1			2		se.	0	0	d. clouds	
Lucknow	29.23	742.5	29.60	751.7	97.0	36.1	25	ene.	4.5	2.0			0			0	0	blue sky	
Allahabad	29.22	742.1	29.52	749.7	101.3	38.5	17	s.	2.0	0.9			8			0	0	d. clouds	
Patna	29.39	746.5	29.57	751.0	98.1	36.7	31	nw.	4.6	2.1			2	nw.	nw.	0	0		
Hazaribagh	27.61	701.3	29.54	750.2	90.8	36.0	16	nnw.	6.7	3.0			8		n.	0	0		
Cuttack	29.60	751.7	29.68	753 8	85.0	29.4	69	sse.	5.4	2.4			7			0	0	d. clouds	
Calcutta, Alipore	29.62	752.3	29.64	752.8	87.5	30.8	49	s.	10.0	4.5			0			0	0	blue sky	
Dhubri	29.50	749.3	29.62	752.3	81.9	27.7	71	ene.	12.3	5.5			1	wnw.		0	0	d. clouds	
Chittagong	29.63	752.7	29.72	755.0	83.2	28.4	76	w.	2.3	1.0			1			0	0	blue sky	
Sibsagar	29.40	746 9	29.74	755.5	70.6	24.8	92	ne.	3.0	1.3			10	w.	w.	0.73	18.5	gloomy	
Jeypore	28.22	716.8	29.62	752.3	94.7	34.8	9	w.	5.3	2.4			0			0	0	blue sky	
Zanzibar, Africa	29.91	759.7			81.3	27.4	73	s.	7.9	3.4			8			0.11	2.8	threatening	
Bellary	28.19	716.0			88.0	31.1	45	se.	5.9	2.6		2 ck	6			0.01	0.3	gloomy	
Trichinopoly	29.40	746.7			97.6	36.4	31	e.	2	0.9			0			0	0	blue sky	
ITALIAN.																			
Udine	29.81	757.2	30.22	767.5	65.5	18.6	71	n.	0.7	0.3			9			0	0		Prof. Giovanni Cloduig.
Milan	29.70	754.3	30.21	767.3	70.5	21.4	41	se.	7.4	3.3			1			0	0		Prof. Schiaparelli.
Padua	30.10	764.4	30.21	767.2	64.9	18.3	50	nne.	3.8	1.7			10			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.29	744.0	30.19	766.8	70.5	21.4	25	e.	5.6	2.5			0			0	0		Prof. P. F. Denza.
Genoa	29.98	761.4	30.17	766.2	68.0	20.0	47	sw.	4.9	2.2			0			0	0		Prof. G. M. Garibaldi.
Mondovi	28.29	718.6	30.25	768.4	64.6	18.1	34	nnw.			2		0			0	0		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
ITALIAN.—Continued.																			
Pesaro	30.12	765.0	30.17	766.2	61.7	16.5	58	n.	15.4	6.9	.....	.....	1	se.	.....	0	0	.....	Prof. Luigi Guidi.
Florence	29.89	759.2	30.14	765.6	70.5	21.4	26	nne.	.....	.....	6	.....	7	W.	.....	0	0	.....	Prof. Costantino Pitter.
Leghorn	30.01	762.2	30.09	764.3	63.7	17.6	58	nnw.	0.7	0.3	.....	.....	4	.....	.....	0	0	.....	Prof. P. Monte.
Rome	29.92	759.9	30.09	764.3	71.6	22.0	49	wsw.	9.4	4.2	.....	.....	4	.....	.....	0	0	.....	Prof. P. S. Ferrari.
Lecce	29.80	756.9	30.05	763.2	64.8	18.2	66	n.	12.5	5.6	.....	.....	0	.....	.....	0	0	.....	Prof. C. de Giorgi.
Cosenza	29.17	741.0	30.06	763.4	64.8	18.2	75	wnw.	3.1	1.4	.....	.....	7	nw.	.....	0	0	.....	Prof. D. Conti.
Cagliari	29.89	759.2	30.08	764.1	71.6	22.0	24	nw.	.....	.....	2	.....	2	.....	.....	0	0	.....	Prof. A. Pacinotti.
Palermo	29.87	758.6	30.11	764.9	66.2	19.0	43	ene.	6.9	3.1	.....	.....	1	.....	.....	0	0	.....	Prof. G. Cincciatore.
Syracuse	29.99	761.8	30.04	762.9	62.1	16.7	69	e.	9.4	4.2	.....	.....	8	nne.	.....	0	0	.....	Prof. Vincenzo Guiliano.
Sub-series.																			
Naples, S. R	29.54	750.4	30.06	763.4	70.3	21.3	51	sw.	0	0	.....	.....	3	e.	.....	0	0	.....	Prof. T. Brioschi.
Stelvio	22.35	567.8	.....	.....	33.6	0.9	50	se.	.....	.....	2	.....	0	.....	.....	0	0	clear	Prof. P. F. Denza.
Valdobbia	22.40	568.9	.....	.....	40.6	4.8	52	e.	.....	.....	2	.....	1	.....	.....	0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Aomori	29.84	757.9	29.88	758.9	47.0	8.3	84	sw.	2.3	1.0	.....	0	4 s	.....	.....	0.050	1.3	fair	K. Ogawa.
Hakodate	29.90	759.4	29.91	759 7	44.0	6.7	92	calm	0	0	.....	.....	0	.....	.....	0.045	1.1	clear	
Hiroshima, I. M. Obs'y	29.87	758.7	29.88	758.9	63.6	17.6	88	sw.	18.0	8.0	.....	ck	10 s	.....	.....	0.168	4.3	covered	K. Sasaki.
Kanazawa	29.77	756.1	29.87	758.7	62.6	17.0	75	ese.	3.5	1.6	.....	.....	toks;n	.....	.....	0.310	7.9	raining	S. Endo.
Kioto	29.81	757.2	29.98	761.5	60.3	15.7	93	wnw.	2.6	1.2	.....	ck	8 s	.....	.....	0.567	14.4	cloudy	M. Tojima.
Kochi	29.97	761.2	29.99	761.7	65.0	18.3	90	s.	13.2	5.9	.....	.....	10 n	.....	sw.	2.025	51.4	light rain	
Nagasaki, I. M. Obs'y	29.75	755.6	29.95	760.7	61.7	16.5	92	sw.	3.9	1.7	.....	.....	10 s	.....	.....	0.100	2.5	gloomy	S. Takehayashi.
Niigata	29.82	757.4	29.85	758.2	56.5	13.6	65	e.	2.6	1.2	.....	8 ck	0	.....	.....	0.090	2.3	cloudy	
Nobiru	29.92	759.9	29.94	760.5	54.0	12.2	94	sse.	7.5	3.3	.....	.....	10 s	.....	.....	0	0	covered	H. Midzushina.
Supporo	.....	.....	.....	.....	47.0	8.3	84	calm	0	0	.....	.....	9	.....	.....	0	0	overcast	
Tokei Obs'y, Yeddo	29.88	758.9	29.95	760.7	61.1	16.2	73	ssw.	11.2	5.0	.....	1 c	0	.....	.....	0	0	clear	The Staff.
Wakayama	29.90	759 4	29.95	760.7	66.9	19.4	67	ssw.	15.6	7.0	.....	2 ck	2 ks	W.	ssw.	1.402	35.6	fair	Y. Kuwamuea.
MAURITIUS.																			
Mauritius Observatory	29.84	757.9	30.03	762.7	79.0	26.1	69	ese.	21.0	9.4	.....	3cs;ck	4 k;ks	nw.	ese.	0	0	fair	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.68	601.3	29.90	759.3	58.1	14.7	68	se.	.....	.....	.....	0	0	.....	.....	0	0	foggy	Vicente Fernandez.
Leon	24.38	619.2	30.05	763.3	59.0	15.0	67	nnw.	.....	.....	1	0	2 s	.....	.....	0	0	.....	Prof. M. Leal.
Mazatlan	29.69	754.0	29.95	760.7	64.0	17.8	81	ese.	1.6	0.8	.....	1 cs	0	.....	.....	0	0	foggy	F. Quijano, C. E.
Mexico, Central Obs'y	23.09	586.5	30.15	765.9	55.4	13.0	58	calm	0	0	.....	0	1 s	.....	.....	0	0	foggy	The Staff.
Morelia	24.31	617.4	30.44	773.1	61.2	16.2	75	se.	.....	.....	4	0	0	.....	.....	0	0	clear	M. Tena, M. D.
Pabellon, Aguascalientes	23.93	607.8	29.96	760.9	58.8	14.9	64	calm	.....	.....	0	1 c	0	sw.	.....	0	0	foggy	M. V. de Leon, M. E.
Puebla, Catholic Institute	23.38	593.9	30.11	765.0	54.5	12.5	81	nw.	0.2	0.1	.....	0	0	.....	.....	0	0	clear	Prof. P. Spina.
San Luis Potosi	24.17	614.0	30.11	764.8	67.4	19.7	62	w.	.....	.....	1	4	2	w.	w.	0	0	½ clouded	G. Barroeta, M. D.
Zacatecas	22.54	572.4	30.17	766.2	55.0	12.8	59	w.	5.5	2.5	.....	0	4 s	.....	sw.	0	0	⅛ clouded	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.31	769.8	30.31	769.8	58.5	14.7	.....	w.	.....	.....	2	.....	.....	.....	.....	0.008	0.2	.....	
Groningen	30.22	767.7	30.28	769.1	59.9	15.5	.....	w.	.....	.....	1	.....	.....	.....	.....	0	0	.....	
Helder	30.28	769.0	30.28	769.0	54.3	12.4	.....	wsw.	.....	.....	2	.....	.....	.....	.....	0	0	.....	
Hellevoetsluis	30.30	769.5	30.30	769.5	62.4	16.9	70	wsw.	.....	.....	2	.....	.....	.....	.....	0.059	1.5	.....	
Utrecht	30.26	768.5	30.30	769.7	64.2	17.9	59	sw.	.....	.....	2	.....	2	.....	.....	0	0	lightly cl'd'y	H. van der Brink.
NORWEGIAN.																			
Bergen	29.86	758.5	29.93	760.1	52.5	11.4	78	s.	18	8	.....	.....	9	.....	.....	0.110	2.8	.....	
Brono	29.68	753.8	29.72	754.8	41.4	5.2	77	nw.	18	8	.....	.....	8	.....	.....	0	0	.....	
Christiania	29.70	754.3	29.84	757.9	59.4	15.2	46	wsw.	9	4	.....	.....	4	.....	.....	0.134	3.4	.....	
Gjæsvær	29.66	753.3	29.68	753.9	30.7	— 0.7	.....	ne.	.....	.....	7	.....	10	.....	.....	.....	.....	.....	
Lodingen	29.57	751.1	29.62	752.3	35.4	1.9	62	n.	.....	.....	2–4	.....	10	.....	.....	.....	.....	.....	
PORTUGUESE.																			
Angra, Azores	.....	.....	.....	.....	57.2	14.0	71	nnw.	19.2	8.6	.....	.....	3	.....	.....	0.370	9.4	.....	Dr. J. A. Sampaio.
Campo Major	29.15	740.3	30.10	764.5	83.8	28.8	23	ese.	4.3	1.9	.....	.....	1	.....	.....	0	0	.....	Dr. A. M. R. dos Santos.
Funchal, Maderia	30.16	766.0	30.24	768.2	67.5	19.7	72	sw.	.....	.....	.....	.....	0	.....	.....	0	0	.....	Capt. D. A. de Cunha.
Lisbon, Observatory	29.82	757.5	30.18	766.5	71.2	21.8	37	calm	0.7	0.3	.....	.....	0	.....	.....	0	0	.....	The Staff.
Ponta Delgada, Azores	30.22	767.5	30.29	769.3	60.4	15.9	55	wnw.	15.4	6.9	.....	.....	4	.....	.....	0.421	10.7	.....	
Saint Paul de Loando	29.77	756.1	29.97	761.2	82.0	27.8	85	nnw.	0.7	0.3	.....	.....	6	s.	.....	0.055	1.4	.....	
Serra da Estrella	25.45	646.5	30.06	763.6	63.0	17.2	37	e.	11.2	5.0	.....	.....	0	.....	.....	0	0	.....	
RUSSIAN.																			
Akmolinski	28.72	729.4	29.85	758.2	23.0	— 5.0	76	w.	20	9	.....	.....	10 n	.....	.....	0	0	.....	Major K. Lasarew.
Archangel	29.56	750.9	29.58	751.4	37.9	3.3	82	s.	4	2	.....	.....	10	.....	.....	0.055	1.4	.....	Capt. Seellwerstow.
Astrakhan	30.30	769.5	30.21	767.4	48.7	9.3	23	ene.	11	5	.....	.....	10 s	.....	.....	0	0	light clouds.	Capt. Wisganow.
Barnaul	29.19	741.3	29.67	753.7	56.3	13.5	46	wsw.	9	4	.....	.....	9	.....	.....	0.122	3.1	.....	Meteorological Obs'y.
Dorpat	29.53	750.0	29.77	756.2	50.4	10.2	96	wnw.	7	3	.....	.....	10 n	.....	.....	0.205	5.2	raining	Observatory.
Ekaterinburg	29.09	738.8	30.10	764.4	27.9	— 2.3	35	n.	13	6	.....	.....	0	.....	.....	0	0	.....	Meteorological Obs'y.
Kasan	29.98	761.6	30.27	768.8	35.8	2.1	38	ssw.	7	3	.....	.....	1	.....	.....	0	0	.....	Observatory.
Kertch	29.98	761.4	30.00	761.9	49.1	9.5	87	n.	9	4	.....	.....	10 n	.....	.....	0	0	.....	Lagorio & Sastyrez.
Kieff	29.44	747.8	30.08	763.9	55.6	13.1	43	ese.	7	3	.....	ck	2 ks	.....	.....	0	0	.....	Observatory.
Lugan	29.90	759.5	30.10	764.6	56.1	13.4	27	ese.	22	10	.....	.....	7	.....	.....	0	0	.....	Meteorological Obs'y
Moscow	29.53	750.0	30.01	762.2	51.4	10.8	45	s.	7.8	3.5	.....	0	8 ks	.....	.....	0	0	.....	Meteorological Obs'y.
Nikolaiev	30.01	762.2	30.08	764.0	64.2	17.9	38	n.	4	2	.....	3 ck	0	.....	.....	0	0	.....	Capt. Kurdakow.
Nikolaievsk, on the Amoor	29.75	755 7	29.84	757.9	30.6	— 0.8	79	ne.	4	2	.....	.....	0	.....	.....	0	0	.....	Lieut. Iwanow.
Pekin, China	29.72	754 8	29.86	758.4	69.3	20.7	24	calm	0	0	.....	0	2 k	.....	.....	0	0	.....	Physical Observatory
St. Petersburg	29.64	752.8	29.65	753.2	48.7	9.3	91	sw.	13	6	.....	.....	10 n	.....	.....	0.043	1.1	light rain	Central Physical Obs'y
Ssemipalatinsk	29.10	739.2	29.74	755.5	61.0	16.1	42	sw.	22	10	.....	.....	9 s	.....	.....	0.004	0.1	heavy cl'ds.	Major Lasaren.
Tashkend, Laboratory	28.39	721.2	29.93	760.3	65.1	18.4	74	ne.	9	4	.....	.....	0	.....	.....	0	0	.....	Teich, A. M.
Tiflis	28.54	724.8	29.93	760.1	65.5	18.6	37	nw.	22	10	.....	8 cs	0	.....	.....	0.815	20.7	.....	Physical Observatory
Vladivostok	29.60	751.7	29.66	753.4	41.0	5.0	100	calm	0	0	.....	.....	10 n	.....	.....	0.988	25.1	.....	
Warsaw	29.69	754.0	30.11	764.8	54.9	12.7	56	w.	16	7	.....	.....	10 ks	.....	.....	.....	.....	.....	Astronomical Obs'y
Wilna	29.54	750.4	29.96	760.9	60.8	16.0	61	ssw.	9	4	.....	.....	10	.....	.....	0.004	0.1	.....	Berg, Assistant.
Yeniseisk	29.45	748.1	29.74	755.3	48.2	9.0	54	ssw.	7	3	.....	.....	4	.....	.....	0	0	.....	M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	30.08	764.0	30.19	766.7	69.8	21.	46	sw.	2.2	1.0	.....	1 c	0	.....	.....	0	0	.....	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.11	764.7	30.17	766.2	75.0	23.9	51	n.	1.6	0.7	.....	3	0	nw.	.....	0	0	almost clear	Prof. Manuel de Naveran:
Burgos, Met. Obs'y	27.21	691.1	30.09	764.3	71.1	21.7	38	s.	6.0	2.7	.....	.....	0	.....	.....	0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	27.95	709.8	30.09	764.2	77.5	25.3	24	sw.	6.7	3.0	.....	2	1	wnw.	.....	0	0	light clouds	The Staff.
Murcia, Met. Obs'y	30.04	762.9	30.18	766.6	77.0	25.0	36	ene.	3.8	1.7	.....	0	2	.....	.....	0	0	clouds	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.19	741.5	30.07	763.7	69.3	20.7	58	sw.	7.4	3.3	.....	.....	2	.....	.....	0	0	l'ly cloudy.	R. Gil Vallanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I	29.94	760.5	30.01	762.2	76.3	24.6	82	calm	0	0	.....	2 c	0	W.	.....	0	0	fair	Benito Vines, S. J.
Manilla, Philippine Islands	29.79	756.7	29.85	758.2	82.9	28.3	73	se.	6.8	3.0	.....	6 c	1 s	.....	e.	0	0	fair	F. Faura, S. J.
San Fernando, Naval Obs'y	30.10	764.4	30.19	766.9	79.2	26.2	36	e.	3.1	1.4	.....	0	0	.....	.....	0	0	.....	Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	30.03	762.8	30.12	765.1	78.1	25.6	86	calm	0	0	.....	1 s	1 k	n.	se.	c	0	clear	Manuel Maeu.
Tuguegarao, Philippine Id's	29.75	755.6	29.88	758.9	75.5	24.2	90	nnw.	3.8	1.7	.....	.....	9 ks	.....	ne.	Inap.	Inap.	covered	José L. Yrastorza.
SWEDISH																			
Haparanda	29.33	744.9	29.37	745.9	35.2	1.8	96	s.	.....	.....	2	10	.....	.....	.....	0.843	21.4	snowing	
Umea	29.48	748.8	29.53	750.1	45.7	7.6	57	nw.	.....	.....	6	.....	6	.....	.....	0	0	.....	
Hernosand	29.63	752.5	29.68	753.8	49.8	9.9	33	wnw.	.....	.....	6	.....	4	.....	.....	0	0	.....	
Stockholm	29.63	752.6	29.81	757.1	53.2	11.8	63	w.	.....	.....	4	.....	0	.....	.....	0.102	2.6	.....	
Wisby	29.78	756.4	29.84	757.9	48.6	9.2	79	w.	.....	.....	4	.....	0	.....	.....	0.114	2.9	.....	
Sub-series.																			
Upsala	29.68	753.8	29.76	756.0	55.6	13.1	51	wnw.	7.6	3.4	.....	.....	1	wnw.	nw.	0	0	.....	S. G. Fineman.
SWISS.																			
Geneva	28.82	732.1	30.23	767.8	59.9	15.5	54	n.	.....	.....	4	.....	.....	.....	.....	0	0	clear	The Observatory

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
TURKISH.																			
Constantinople	.....	.....	30.08	763.9	57.0	13.9	72	ne.	18	8.0	.....	.....	2	.....	ne.	0	0	.....	The Observatory.
Valona	.....	.....	30.08	764.1	68.7	20.4	.....	sw.	.....	.....	1	.....	0	.....	.....	0	0	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	29.89	759.1	68.0	20.0	71	ne.	.....	.....	1	1 c	0	.....	.....	0	0	.....	Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	29.41	747.0	29.49	749.0	46	7.8	61	w.	10	4.5	.....	.....	10 n	.....	.....	0.02	0.5	light rain	J. O. Barnes.
Alpena, Michigan	29.27	743.4	29.96	761.0	35	1.7	69	nw.	10	4.5	.....	0	c	.....	.....	0.28	7.1	clear	Jas. J. Fitzgerald.
Atlanta, Georgia	28.79	731.3	29.97	761.2	61.5	16.4	50	w.	5	2.2	.....	3 k	0	w.	.....	0	0	clear	H. Hall.
Atlantic City, New Jersey	29.65	753.1	29.66	753.4	46.8	8.2	63	sw.	15	6.7	.....	0	0	.....	.....	0.11	2.8	clear	Jas. M. Watson.
Augusta, Georgia	29.78	756.4	29.97	761.2	57	13.9	80	calm	0	0	.....	0	fg.	.....	.....	0	0	clear	John Healy.
Baltimore, Maryland	29.73	755.1	29.78	756.4	49	9.4	50	w.	10	4.5	.....	.....	10 s	.....	nw.	inap.	inap.	cloudy	Robert Seyboth.
Barnegat, New Jersey	29.62	752.3	29.64	752.8	47.2	8.4	58	w.	23	10.3	.....	4 ck	3 k	w.	w.	0.03	0.8	fair	Chas. F. Merritt.
Bismarck, Dakota	27.98	710.7	29.85	758.2	41	5.0	92	e.	15	6.7	.....	.....	10 n	.....	.....	0.23	5.8	heavy rain	Cyrus Cramer.
Boise City, Idaho	27.36	694.9	30.20	767.1	33	0.6	81	nw.	1	0.4	.....	0	0	.....	.....	0	0	clear	B. E. Light.
Boston, Massachusetts	29.27	743.4	29.43	737.5	43.0	6.1	68	nw.	13	5.8	.....	.....	10 n	.....	.....	0.01	0.3	light rain	O. B. Cole.
Brownsville, Texas	29.65	753.1	29.70	754.4	77	25.0	90	s.	8	3.6	.....	.....	10 s	.....	s.	0	0	cloudy	J. C. Galloway.
Buffalo, New York	29.01	736.8	29.78	756.4	38.4	3.6	79	w	10	4.5	.....	.....	10 s	.....	w.	0.06	1.5	cloudy	Wm. Finn.
Burlington, Vermont	29.12	739.6	29.42	747.3	42.3	5.7	78	calm	0	0	.....	.....	10 n	.....	w.	0.15	3.8	light rain	G. C. Schaeffer.
Cairo, Illinois	29.46	748.3	29.87	758.7	57.6	14.2	60	se.	10	4.5	.....	0	0	.....	.....	0	0	clear	W. H. Ray.
Campo, California	27.44	697.0	30.02	762.5	33.6	0.9	88	sw.	2	0.9	.....	0	0	.....	.....	0.46	11.7	clear	W. H. Clendenon.
Camp Thomas, Arizona	27.04	685.8	29.77	756.1	53	11.7	44	nw.	.....	.....	1	hz.	hz.	.....	.....	0	0	dense haze	J. T. Fitzgerald.
Cape Henry, Virginia	29.80	756.9	29.82	757.4	55	12.8	55	sw.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. E. Lanouette.
Cape May, New Jersey	29.70	754.4	29.73	755.1	47	8.3	56	w.	40	17.9	.....	0	0	.....	.....	0.22	5.6	clear	W. Bolton.
Cedar Keys, Florida	29.98	761.5	30.00	762.0	72	22.2	84	w.	1	0.4	.....	1 ck	0	.....	.....	0.68	17.3	clear	F. W. Mixer.
Champaign, Illinois	29.11	739.4	29.95	760.7	43.2	6.2	68	se.	13	5.8	.....	10 k	0	w.	.....	0	0	cloudy	L. A. Welsh.
Charleston, S. Carolina	29.90	759.4	29.96	761.0	65	18.3	43	nw.	7	3.1	.....	0	0	.....	.....	0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.02	737.1	29.88	758.9	62.0	16.7	47	w.	2	0.9	.....	0	sk.	.....	.....	0	0	clear	D. O. Donoghue.
Chattanooga, Tennessee	29.14	740.1	29.97	761.2	52.0	11.1	86	w.	1	0.4	.....	0	fg	.....	.....	0	0	clear	R. L. Goulding.
Cheyenne, Wyoming	23.76	603.5	29.76	755.9	26.5	— 3.1	82	n.	20	8.9	.....	.....	10 s	.....	n.	0.13	3.3	cloudy	E. McGovern.
Chicago, Illinois	29.28	743.7	30.01	762.2	40.1	4.5	73	e.	6	2.7	.....	0	0	.....	.....	0	0	clear	J. Mitchell.
Chincoteague, Virginia	29.77	756.1	29.79	756.7	49.5	9.7	56	nw.	22	9.8	.....	0	hz.	.....	.....	inap.	inap.	clear	V. P. Temple.
Cincinnati, Ohio	29.33	745.0	30.00	762.0	45.2	7.3	83	n.	2	0.9	.....	3 k	0	nw.	.....	0	0	clear	R. B. Watkins.
Cleveland, Ohio	29.18	741.2	29.94	760.5	39.7	4.3	76	nw.	14	6.3	.....	.....	10 s	.....	nw.	0.05	1.3	cloudy	J. B. Newlin.
Coleman City, Texas	27.86	707.6	29.68	753.9	62	16.7	93	s.	6	2.7	.....	0	0	.....	.....	0	0	clear	L. Dorman.
Columbus, Ohio	29.10	739.1	29.97	761.2	39	3.9	73	w.	6	2.7	.....	0	0	.....	.....	0.02	0.5	clear	D. Cuthbertson.
Concho, Texas	27.72	704.1	29.66	753.4	58	14.4	77	calm	0	0	.....	0	0	.....	.....	0	0	clear	W. W. McConihe.
Davenport, Iowa	29.26	743.2	29.93	760.2	44	6.7	68	e.	10	4.5	.....	7 k	0	w.	.....	0	0	fair	R. R. Martin.
Dayton, Washington T'y	28.40	721.3	30.15	765.8	31.6	— 0.2	87	calm	0	0	.....	0	0	.....	.....	0	0	clear	H. Clifford.
Deadwood, Dakota	25.17	639.3	29.86	758.4	30	— 1.1	92	calm	0	0	.....	.....	10 n	.....	.....	0.29	7.4	light snow	G. W. Scott.
Decatur, Texas	.....	.....	.....	.....	68	20.0	70	se.	12	5.4	.....	0	3 s	.....	s.	0	0	clear	D. J. Carr.
Delaware Breakwater, Del.	29.73	755.1	29.75	755.6	48	8.9	63	w.	25	11.2	.....	0	hz.	.....	.....	0.02	0.5	clear	A. Schneider.
Denison, Texas	28.86	733.0	29.66	753 4	69.0	20.6	84	s.	11	4.9	.....	10 ck	0	s.	.....	0	0	cloudy	J. McGlone.
Denver, Colorado	24.47	621.5	29.74	755.4	35.0	1.7	72	n.	16	7.2	.....	.....	10 n	.....	n.	0.03	0.8	light snow	F. M. Neal.
Des Moines, Iowa	28.88	733.5	29.81	757.2	47	8.3	68	se.	12	5.4	.....	10 cs	0	w.	.....	0	0	cloudy	F. W. Conrad.
Detroit, Michigan	29.23	742.4	29.96	761.0	39.2	4.0	73	w.	9	4.0	.....	0	0	.....	.....	0.01	0.3	clear	C. F. R. Wappenhans.
Dodge City, Kansas	26.90	683.2	29.54	750.3	47	8.3	52	w.	10	4.5	.....	0	2 s	.....	.....	0	0	clear	E. A. Thomas.
Dubuque, Iowa	29.24	742.7	29.96	761.0	39.5	4.2	73	e.	5	2.2	.....	2 c	0	ne.	.....	0	0	clear	J. Harvey Smith.
Duluth, Minnesota	29.35	745.5	30.07	763.8	34	1.1	71	ne.	6	2.7	.....	0	0	.....	.....	0	0	clear	N. B. Conger.
Eagle Pass, Texas	28.89	733.8	29.70	754.4	69.1	20.6	90	calm	0	0	.....	3 cs	0	sw.	.....	0	0	clear	F. Belford.
Eagle Rock, Idaho	25.32	643.1	30.04	763.0	24	— 4.4	76	n.	6	2.7	.....	0	0	.....	.....	0	0	clear	J. M. Clifford.
Eastport, Maine	29.34	745.2	29.41	747.0	36.5	2.5	84	n.	6	2.7	.....	.....	10 s	.....	n.	0.37	9.4	cloudy	J. H. Melton.
El Paso, Texas	26.00	660.4	29.74	755.4	53	11.7	17	nw.	12	5.4	.....	0	0	.....	.....	0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.11	739.4	29.86	758.4	39	3.9	89	nw.	20	8.9	.....	.....	10 ks	.....	nw.	0.28	7.1	cloudy	R. H. Paxton.
Escanaba, Michigan	29.36	745.7	30.05	763.3	34	1.1	71	nw.	7	3.1	.....	0	0	.....	.....	0	0	clear	C. Dill.
Florence, Arizona	28.36	720.3	29.86	758.4	49.0	9.4	56	sw.	3	1.3	.....	0	hz.	.....	.....	0	0	dense haze	R. R. Herman.
Fort Apache, Arizona	24.92	633.0	29.84	757.9	38	3.3	92	e.	2	0.9	.....	0	6 s	.....	calm	inap.	inap.	fair	W. O. Barnes.
Fort Assinnaboine, Montana	27.22	691.4	30.12	765.0	34	1.1	71	sw.	14	6.3	.....	1 c	6 s	sw.	sw.	0	0	cloudy	B. O. Lenoir.
Fort Bennett, Dakota	28.13	714.5	29.77	756.1	45	7.2	93	n.	8	3.6	.....	.....	10 s	.....	.....	inap.	inap.	threatening	T. Gibson.
Fort Benton, Montana	27.27	692.6	30.13	765.3	28	— 2.2	67	calm	0	0	.....	0	0	.....	.....	inap.	inap.	clear	S. Wheaton.
Fort Buford, Dakota	28.00	711.2	30.07	763.8	45	7.2	100	nw.	24	10.7	.....	.....	10 n	.....	nw.	0.22	5.6	light rain	A. H. Bell.
Fort Custer, Montana	26.86	682.2	30.04	763.0	34	1.1	88	nw.	15	6.7	.....	.....	10 s	.....	nw.	0	0	threatening	V. Verge.
Fort Davis, Texas	25.02	635.5	29.81	757.2	49	9.4	56	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. Williams.
Fort Elliott, Texas	26.84	681.7	29.62	752.3	52	11.1	55	nw.	4	1.8	.....	6 c	0	nw.	.....	0	0	fair	W. J. Oundall.
Fort Gibson, Indian T'y	29.04	737.6	29.62	752.3	68.0	20.0	73	se.	12	5.4	.....	0	0	.....	.....	0	0	clear	J. B. Campbell.
Fort Grant, Arizona	25.07	636.8	29.80	756.9	42	5.6	48	nw.	6	2.7	.....	.....	10 s	.....	.....	0.02	0.5	cloudy	T. J. Macgowan.
Fort Keogh, Montana	27.48	698.0	30.02	762.5	36	2.2	82	nw.	16	7.2	.....	10 cs	0	.....	.....	0	0	cloudy	W. B. Stockman.
Fort Macon, North Carolina	29.87	758.7	29.88	758.9	59	15.0	65	nw.	6	2.7	.....	hz.	hz.	calm	calm	0.26	6.6	light haze	L. Leonardy.
Fort McKavett, Texas	27.58	700.5	29.84	757.9	69	20.6	45	sw.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. E. Thatcher.
Fort Missoula, Montana	26.85	682.0	30.16	766.1	27	— 2.8	88	sw.	2	0.9	.....	0	0	.....	.....	inap.	inap.	clear	J. H. Jones.
Fort St. Michaels, Alaska	29.78	756.4	29.81	757.2	12	—11.1	100	sw.	15	6.7	.....	0	8 s	.....	s.	0	0	threatening	A. P. Leavitt.
Fort Shaw, Montana	26.41	670.8	30.08	764.0	29	— 1.7	67	w.	14	6.3	.....	0	0	.....	.....	0.02	0.5	clear	A. L. Mathews.
Fort Sill, Indian Territory	28.37	720.6	29.61	752.1	57.5	14.2	73	s.	1	0.4	.....	5 c	0	w.	.....	0	0	fair	T. Cleary.
Fort Stevenson, Dakota	27.99	710.9	29.89	759.2	35	1.7	100	w.	34	15.2	.....	.....	10 n	.....	ne.	1.22	31.0	light rain	W. Barrows
Fort Verde, Arizona	.....	.....	.....	.....	41.3	5.2	43	n.	.....	.....	4	0	0	.....	.....	inap.	inap.	clear	D. Brooks.
Fort Washakie, Wyoming	24.38	619.2	.....	.....	26.3	— 3.2	88	calm	0	0	.....	.....	10 n	.....	.....	0	0	clear	T. M. Ambler.
Fredericksburg, Texas	27.95	709.9	29.67	753.6	67	19.4	90	sw.	10	4.5	.....	.....	10 ks	.....	sw.	0.34	8.6	light snow	H. S. Miles.
Galveston, Texas	29.70	754.4	29.74	755.4	74	23.3	95	se.	22	9.8	.....	.....	10 ks	.....	sw.	0	0	cloudy	E. O'C. MacInerney.
Grand Haven, Michigan	29.32	744.7	30.01	762.2	37.0	2.8	72	nw.	6	2.7	.....	0	0	.....	.....	0	0	cloudy	W. A. Reid.
Hatteras, North Carolina	29.82	757.4	29.84	757.9	59	15.0	65	nw.	12	5.4	.....	0	sk.	.....	.....	0.03	0.8	clear	R. M. Crawford.
Helena, Montana	25.84	656.3	30.10	764.5	30	— 1.1	60	w.	8	3.6	.....	0	0	.....	.....	0	0	clear	N. O. Smith.
Henrietta, Texas	28.64	727.4	29.67	753.6	65.0	18.3	84	s.	10	4.5	.....	0	0	.....	.....	0	0	clear	J. W. Byram
Huron, Dakota	28.34	719.8	29.79	756.7	43	6.1	80	e.	13	5.8	.....	.....	10 s	.....	.....	0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.15	740.4	29.97	761.2	42	5.6	73	ne.	2	0.9	.....	0	6ks;s;hz	.....	n;calm	0	0	cloudy	O. Schutze
Indianola, Texas	29.68	753.9	29.71	754.6	74.6	23.7	94	s.	16	7.2	.....	0	8 ks	.....	w.	0	0	fair	I. A. Reed.
Jacksboro, Texas	28 48	723.4	29.66	753.4	67	19.4	84	s.	11	4.9	.....	1 c	0	s.	.....	0	0	cloudy	J. P. Sherry.
Jacksonville, Florida	29.94	760.5	29.98	761.5	71	21.7	84	sw.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. W. Smith.
Keokuk, Iowa	29.14	740.1	29.81	757.2	45.5	7.5	76	e.	12	5.4	.....	1 k	0	w.	.....	0.37	9.4	clear	F. Z. Gosewisch
Key West, Florida	30.00	762.0	30.02	762.5	79.2	26.2	82	s.	7	3.1	.....	6 c;cs	0	nw.	.....	0	0	fair	L. M. Melbourne.
Kittyhawk, North Carolina	29.85	758.2	29.87	758.7	57	13.9	45	nw.	11	4.9	.....	hz.	0	.....	.....	0	0	dense haze	E. A. Beals.
Knoxville, Tennessee	28.94	735.1	29.98	761.5	53.1	11.7	56	n.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. A. Cody.
La Crosse, Wisconsin	29.17	740.9	29.97	761.2	45	7.2	53	se.	4	1.8	.....	0	0	.....	.....	0	0	clear	S. C. Emery.
La Mesilla, New Mexico	25.88	657.3	29.76	755.9	45.0	7.2	49	calm	0	0	.....	0	0	.....	.....	0	0	clear	N. D. Lane.
Leavenworth, Kansas	28.69	728.7	29.60	751.8	55	12.8	69	se.	6	2.7	.....	.....	10 s	.....	sw.	0	0	cloudy	A. W. Browne.
Lewiston, Idaho	29.39	746.5	30.24	768.1	33.4	0.8	64	ne.	4	1.8	.....	0	0	.....	.....	0	0	clear	W. Blake.
Little Rock, Arkansas	29.45	748.0	29.77	756.1	59	15.0	87	calm	0	0	.....	0	0	.....	.....	0	0	clear	W. U. Simmons.
Los Angeles, California	29.69	754.1	30.09	764.3	43.0	6.1	83	n.	1	0.4	.....	0	0	.....	.....	0.04	1.0	clear	E. F. Kubel.
Louisville, Kentucky	29.39	746.5	29.96	761.0	47	8.3	63	e.	6	2.7	.....	1 k	0	.....	.....	0	0	clear	H. C. Smyth.
Lynchburg, Virginia	29.17	740.9	29.88	758.9	54.5	12.5	28	sw.	4	1.8	.....	0	0	.....	.....	0	0	clear	W. R. Bushby.
Madison, Wisconsin	28.97	735.8	30.01	762.2	37	2.8	82	e.	4	1.8	.....	0	0	.....	.....	0	0	clear	C. A. Shaw.
Marquette, Michigan	29.33	745.0	30.08	764.0	34	1.1	72	n.	6	2.7	.....	7 k	2 s	nw.	nw.	0	0	cloudy	J. Gilligan.
Mason, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	P. M. Wilson.
Memphis, Tennessee	29.46	748.2	29.80	756.9	62	16.7	68	se.	4	1.9	.....	1 cs	0	nw.	.....	0	0	clear	D. T. Flannery.
Milwaukee, Wisconsin	29.25	742.9	30.02	762.5	36	2.2	79	n.	4	1.8	.....	0	fg.	.....	.....	0	0	clear	W. Line.
Mobile, Alabama	29.89	759.2	29.93	760.2	69	20.6	93	calm	0	0	.....	.....	fg.	.....	.....	0	0	dense fog	J. D. Paxton.

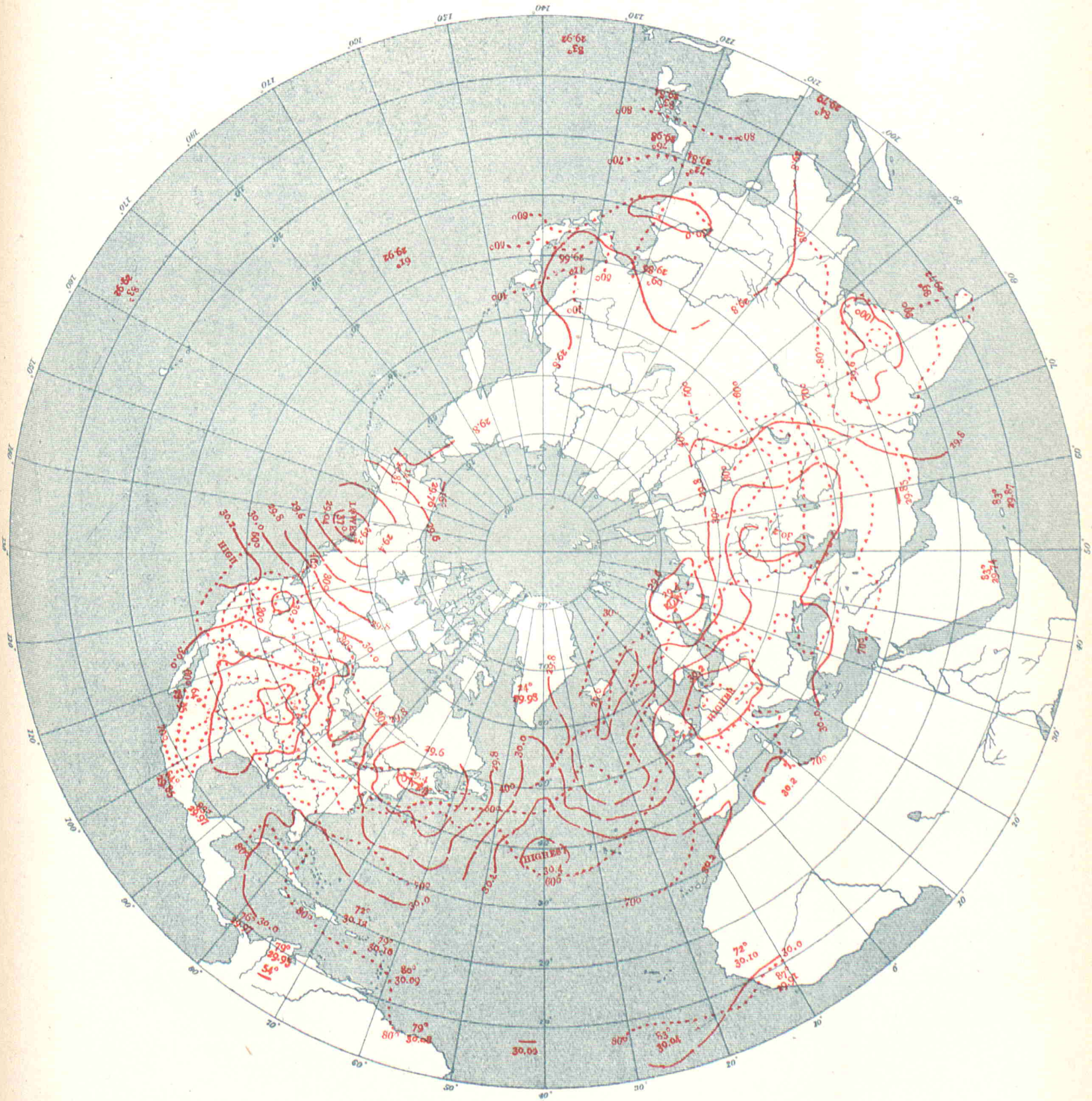
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Montgomery, Alabama	29.73	755.1	29.96	761.0	60	15.6	84	sw.	1	0.4		6 cs	fg.	w.		0	0	fair	J. B. McLaughlin.
Moorhead, Minnesota	28.92	734.6	29.96	761.0	39.1	3.9	65	se.	16	7.2		5 k	o	se.		0	0	fair	H. Bessant.
Morgantown, W. Virginia	28.91	734.3	29.95	760.7	46.0	7.8	68	sw.	9	4.0			10 s		w.	0.02	0.5	cloudy	G. C. Lewis.
Mt. Washington, N. H.	23.15	588.0	29.56	750.8	24.0	— 4.4	92	calm	0	0			10n;fg			0.94	23.9	light snow	J. G. Linsley.
Nashville, Tennessee	29.36	745.7	29.90	759.4	55.5	13.1	74	w.	1	0.4		0	hz.			0	0	clear	L. A. Jesunofsky.
New Haven, Connecticut	29.38	746.2	29.50	749.3	44	6.7	60	w.	12	5.4		0	8 s		w.	0	0	cloudy	J. H. Sherman.
New London, Connecticut	29.43	747.5	29.48	748.8	46	7.8	76	w.	4	1.8		4 k	0	calm		0.02	0.5	fair	J. G. Lynch.
New Orleans, Louisiana	29.85	758.2	29.91	759.7	72.8	22.7	87	se.	11	4.9			10 s		s.	0	0	cloudy	S. Dunne.
Newport, Rhode Island	29.42	747 3	29.47	748.5	43.0	6.1	86	nw.	10	4.5			10 n		nw.	0.09	2.3	light rain	W. McGillivray.
New River, N. Carolina					59	15.0	49	n.			1	0	hz.			0.24	6.1	clear	C. C. Corbin.
New Shoreham, Rhode I'd	29.46	748.3	29.49	749.0	43.0	6.1	100	n.	16	7.2			10 n		n.	0.04	1.0	light rain	W. Davis.
New York, New York	29.40	746.7	29.58	751.3	43	6.1	68	W.	16	7.2		3 k	0	w.		0	0	clear	E. B. Garriott.
Norfolk, Virginia	29.80	756.9	29.83	757.7	58	14.4	54	nw.	5	2.2		0	hz.			inap.	inap.	clear	J. T. Elker.
North Platte, Nebraska	26.62	676.1	29.58	751.3	49.6	9.8	80	ne.	13	5.8			10 s			0	0	cloudy	E. F. Brady.
Olympia, Washington T'y	30.03	762.7	30.07	763.8	41.0	5.0	92	s.	4	1.8			10 n		calm	0.10	2.5	light rain	J. Dascomb.
Omaha, Nebraska	28.47	723.1	29.68	753.9	50.2	10.1	58	se.	13	5.8		10 cs	0			0	0	cloudy	A. Pollak.
Ooglaamie, Pt. Barrow, Alas.	29.74	755.4	29.76	755.9	—16.4	—26.9	69	n.	1	0.4		2 cs	3 s			inap.	inap.	fair	P. H. Ray.
Oswego, New York	29.26	743.2	29.60	751.8	39.0	3.9	89	nw.	18	8.0			10 n		nw.	0.07	1.8	light rain	S. W. Beall.
Palestine, Texas	29.20	741.7	29.76	755.9	68.0	20.0	93	s.	8	3.6			10 ks		s.	0	0	cloudy	L. M. Pindell.
Pensacola, Florida	29.91	759.7	29.94	760.5	69.2	20.7	97	n.	5	2.2		0	8 s		nw.	0	0	cloudy	M. McGauran,
Philadelphia, Pa	29.58	751.3	29.68	753.9	47	8.3	63	w.	15	6.7		5 ck	0	w.		inap.	inap.	fair	T. F. Townsend.
Pike's Peak, Colorado	17.37	441.2	29.65	753.1	8	—13.3	100	sw.	5	2.2			10 s			0.15	3.8	cloudy	L. M. Dey.
Pioche, Nevada	23.97	608.8	29.96	761.0	18	— 7.7	73	n.	12	5.4		0	0			0.12	3.0	clear	O. N. Kitchel.
Pittsburg, Pennsylvania	29.06	738.1	29.89	759.2	40.8	4.9	79	nw.	7	3.1			10 n		nw.	0.06	1.5	light rain	J. H. Bryce.
Port Eads, Louisiana	29.92	760.0	29.93	760.2	73.6	23.1	97	e.	3	1.3			10 ks		e.	0.02	0.5	cloudy	H. G. Christian.
Port Huron, Michigan	29.21	741.9	29.91	759.7	35.4	1.9	83	w.	11	4.9		0	0			0.09	2.3	clear	W. O. Bailey.
Portland, Maine	29.34	745.2	29.39	746.5	47.0	8.3	77	calm	0	0			10s;sk		calm	0.12	3.0	cloudy	D. C. Murphy.
Portland, Oregon	30.05	763.3	30.12	765.0	40.2	4.6	89	se.	4	1.8			10 n		s.	0.06	1.5	light rain	M. L. Hearne.
Portsmouth, N. Carolina					58	14.4	74	nw.	8	3.6		0	0			0	0	clear	F. P. Chaffee.
Prescott, Arizona	24.61	625.1	29.83	757.7	30	— 1.1	62	s.	8	3.6		0	0			0	0	clear	J. McN. Wright.
Provincetown, Mass	29.40	746.7	29.43	747.5	46	7.8	83	nw.	6	2.7			10 s		nw.	inap.	inap.	cloudy	P. T. Jenkins.
Punta Rassa, Florida	29.98	761.5	29.99	761.7	77.5	25.3	86	sw.	13	5.8			8 ks		w.	0	0	cloudy	W. J. Evans.
Red Bluff, California	29.84	757.9	30.21	767.3	42.2	5.7	74	n.	4	1.8		0	2 s			0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.42	747.3	29.66	753.4	76	24.4	82	s.	6	2.7		4 c	0	calm		0	0	fair	W. H. Taylor.
Rochester, New York	29.00	736 6	29.68	753.9	38	3.3	89	nw.	20	8.9			10 ks		nw.	0.17	4.3	cloudy	A. T. Sherwood.
Roseburg, Oregon	29.63	752.6	30.19	766.8	39	3.9	82	se.	1	0.4			10 s			0.08	2.0	cloudy	J. J. Nanry.
Sacramento, California	30.09	764.3	30.17	766.3	47.8	8.8	63	nw.	12	5.4		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.25	742.9	29.86	758.4	49.0	9.4	71	se.	12	5.4		2 c	0			0	0	clear	J. H. Webber.
St. Paul, Minnesota	29.07	738.4	29.96	761.0	37.0	2.8	72	e.	8	3.6		0	0			0	0	clear	P. F. Lyons.
St. Vincent, Minnesota	29.11	739.4	30.02	762.5	33	0.6	78	e.	6	2.7		2 ck	3 s	w.	calm	0	0	fair	G. Kingsbury.
Salt Lake City, Utah	25.62	650.7	29.99	761.7	29	— 1.7	59	n.	8	3.6		0	0			0.07	1.8	clear	J. Craig.
San Antonio, Texas	28 98	736.1	29.68	753.9	70.8	21.6	90	s.	6	2.7			10 ks		s.	0	0	cloudy	E. Lane.
San Diego, California	30.00	762.0	30.07	763.8	45.2	7.3	83	e.	4	1.8		0	0			0.03	0.8	clear	A. U. Dobbins.
Sandusky, Ohio	29.26	743.2	29.96	761.0	40	4.4	73	nw.	18	8.0		0	0			0.06	1.5	clear	M. H. Perry.
Sandy Hook, New Jersey	29.55	750.6	29.59	751.6	45.0	7.2	68	nw.	27	12.1		3 k	0	nw.		0	0	clear	B. A. Blundon.
San Francisco, California	30.15	765.8	30.22	767.6	46	7.8	76	W.	2	0.9		0	0			0	0	clear	N. Gorom.
Santa Fé, New Mexico	22.88	581.1	29.64	752.8	38	3.3	75	nw.	4	1.8			10 n			0.10	2.5	light snow	H. U. Jones.
Savannah, Georgia	29.88	758.9	29.97	761.2	69	20.6	57	W.	6	2.7		1 c	0	w.		0.10	2.5	clear	H. W. Ford.
Shreveport, Louisiana	29.52	749.8	29.76	755.9	64	17.8	93	s.	6	2.7		2 k	hz.			0	0	clear	E. N. Meekins.
Silver City, New Mexico	24.02	610.1	29.70	754.4	40	4.4	62	nw.	8	3.6		0	5 ks		nw.	0	0	fair	J. B. Wallace.
Sitka, Alaska	28.98	736.1	29.04	737.6	36.6	2.6	87	calm	0	0			10 n		calm	0.52	13.2	light sleet	J. J. McLean.
Smithville, North Carolina	29.88	758.9	29.92	760.0	60	15.6	51	nw.	4	1.8		0	0			0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	28.11	714.0	30.17	766.3	31	— 0.6	71	s.	11	4.9		0	0			0.09	2.3	clear	D. Moore.
Springfield, Illinois	29.22	742.2	29.92	760.0	47.5	8.6	63	e.	12	5.4		0	5 s; ks		w.	0	0	fair	T. B. Jennings.
Springfield, Massachusetts	29.35	745.5	29.48	748.8	47.3	8.5	61	w.	7	3.1			10 s		sw.	0	0	cloudy	T. S. Outram.
Springfield, Mo	28.22	716.8	29.74	755.4	62	16.7	70	s.	8	3.6		0	0			0	0	clear	J. B. Marbury.
Stockton, Texas	26.70	678.2	29.73	755.1	45.3	7.4	28	calm	0	0		0	0			0	0	clear	J. O'Dowd.
Thatcher's Island, Mass	29.35	745.5	29.40	746.7	44.4	6.9	96	sw.	14	6.3			10 n		sw.	inap.	inap.	light rain	G. Liebmann.
Toledo, Ohio	29.25	742.9	29.96	761.0	38	3.3	79	n	6	2.7		0	0			inap.	inap.	clear	A. Buell.
Tucson, Arizona	27.42	696.5	29.81	757.2	55	12.8	57	W.	5	2.2		0	0			0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.85	758.2	30.22	767.6	37	2.8	72	e.	1	0.4		0	5 s			0	0	fair	J. Daly.
Uvalde, Texas	28 71	729.2	29.68	753.9	71	21.7	90	se.	3	1.3			10 s		s.	0	0	cloudy	E. C. Imlay.
Vicksburg, Mississippi	29.60	751.8	29.86	758.4	62	16.7	73	se.	4	1.8		5 k	0	s.		0	0	fair	T. J. Kenan.
Visalia, California	29.76	755 9	30.14	765.5	40.5	4.7	73	sw.	4	1.8		0	0			0	0	clear	J. T. Cochran.
Washington, D. C.	29.70	754.4	29.82	757.4	48	8.9	56	w.	8	3.6		7 k	0	nw.		0	0	fair	B. M. Purssell.
West Las Animas, Colorado	25.66	651.8	29.62	752.3	41	5.0	67	w.	3	1.3		0	2 s	w.		0	0	clear	J. Grover.
Wickenburg, Arizona					45	7.2	82	nw.			1	0	0			0	0	clear	H. A. Kremp.
Williamsport, Pa	29.07	738.4	29.68	753.9	43	6.1	63	nw.	11	4.9			10 ks		nw.	0	0	cloudy	B. F. Hough.
Wilmington, N. Carolina	29.84	757.9	29.90	759.4	61	16.1	60	calm	0	0		hz.	0			0	0	clear	E. W. McDann.
Winnemucca, Nevada	25.75	654.0	30.15	765.8	20	— 6.7	73	nw.	4	1.8		0	0			0	0	clear	J. R. Williams.
Yankton, Dakota	28.34	719.8	29.68	753.9	45	7.2	76	e.	16	7.2		0	0			0	0	clear	J. H. Atfield.
Yuma, Arizona	29.81	757.2	29.97	761.2	50.0	10.0	61	sw.	4	1.8		0	0			0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.10	561.3			54.0	12.2	77	w.	0.6	0.3			9 ks		nw.	0	0	cloudy	Joaquin Gomez.
Bridgetown, Barbados, W.I.	30.08	764.0	30.09	764.3	80	26.7	95	e.				5 k	5 ks	ne.	ne.	0.04	1.0	cloudy	J. A. Racker.
Buenaventura, U. S. C.																			J. I. Plume.
Guadeloupe, W. I.	29.98	761.5	30.00	762.0	79	26.1	87	se.				0	1 ks			0	0	clear	B. Bigar.
Havana, Cuba, W. I.	29.99	761.7	30.04	763.0	80	26.7	79	calm	0	0		5 cs	0	calm		0	0	fair	A. Van Caneghem.
Kingston, Jamaica, W. I.	30.09	764.3	30.10	764.5	79.7	26.5	63	n.	1	0.4		0	0			0	0	fine	Robert Johnston.
Navassa, W. I.																			F. M. Everett.
Paramaribo, S. A.	30.08	764.0	30.08	764.0	79	26.1	87	e.			3	4 c	5 k	e.	e.	0	0	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.49	749.0	29.95	760.7	78	25.6	84	s.			1		9 n		s.	0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.							92	ne.			2	0	1 ks		ne.	0	0	clear	Earl Flint.
Santiago de Cuba, W. I.	30.03	762.7	30.05	763.3	79	26.1	74	calm	0	0		1 c	1 s			0	0	fair	Robert Mason.
York Factory, B. A.	29.98	761.5	30.03	762.7	23.0	— 5.0	93	e.	10	4.5		2 c	1 s	e.	e.	0	0	fair	W. Wood.

STATIONS AND VESSELS.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
British Naval.																		
H. M. S. Alert, Providence Island, Madagascar	29.90	759.4	84.5	29.2	75	se.			3-5		4							squally.
H. M. S. Alexandra, Malta, Mediterranean	30.09	764.3	69	20.6	65	wnw.			3		5	nw.						d. clouds.
H. M. S. Bacchante, Haifa Bay, Palestine	29.87	758.7	72	22.2	75	n.			1-2		0							blue sky.
H. M. S. Comus, Pelew Island, Oceania	29.92	760.0	83	28.3	87	ne.			1		9	ene.						d. clouds.
H. M. S. Diamond, S 36° 15′, E. 150° 38′	30.07	763.8	70	21.1	95	n.			3-4		0					1	n.	blue sky.
H. M. S. Dido, N. 18° 00′, W. 63° 00′	30.18	766.6	78	25.6		ese.			4		2	e.						d. clouds.
H. M. S. Dryad, N. 25° 47′, E. 55° 56′	29.75	755.6				wsw.			1-2		1	wsw.				2	wsw.	blue sky.
H. M. S. Eclipse, S. 8° 05′, E. 40° 52′			84	28.9	96	se.			2-3		3					2	ese.	showery.
H. M. S. Espiegle, S. 39° 03′ E. 147° 58′	29.97	761.2	65	18.3	94	ne.			2		9					2	ne.	d. clouds.
H. M. S. Fawn, N. 13° 21′, E. 43° 10′	29.74	755.4	82.5	28.1	74	s.			6		0					3	s.	misty.
H. M. S. Gannet, S. 29° 56′, W. 71° 20′	30.02	762.5	55	12.8	93	calm			0		0							foggy.
H. M. S. Garnet, S. 34° 38′, W. 57° 52	30.41	772.4	51	10.6	72	s.			6		0							blue sky.
H. M. S. Inconstant, Simon's Bay, Cape Colony	30.08	764.0	66	18.9	73	wsw.			3		4	w.						showery.
H. M. S. Iron Duke, N. 20° 22′, E. 115° 55′	29.84	757.9	72	22.2	100	ne.			3		7	ne.				3		d. clouds.
H. M. S. Lark, S. 9° 05′, E. 160° 20′	29.83	757.7	83.3	28.5		se.			1		3					1	se.	d. clouds.
H. M. S. Magpie, N. 35° 25′, E. 139° 43′	29.96	761.0	63.8	17.7	67	ssw.			3-5		2							misty.
H. M. S. Malabar, N. 33° 50′, E. 24° 20′	29.83	757.7	63	17.2	88	e.			4		6	e.				3	e.	d. clouds.
H. M. S. Nelson, Sydney, N. S. Wales	30.11	764.8	68	20.0	79	se.			1		1	s.						blue sky.
H. M. S. Northampton, Bermuda, W. I.	29.82	757.4	66	18.9	7	ssw.			2		10	ssw.						raining.
H. M. S. Orontes, N. 32° 32′, W. 19° 45′	30.32	770.1	64.5	18.1	85	wnw.			2		3	wsw.				2	wnw.	d. clouds.
H. M. S. Pegasus, N. 1° 17′, E 103° 52′	29.79	756.7	84	28.9	87	n.			1		5	n.				1	ne.	d. clouds.
H. M. S. Rambler, Little Fish Bay, Benguela	29.98	761.5	75	23.9	95	wsw.			2		5	sw.						d. clouds.
H. M. S. Rocket, Esquimalt, Vancouver Island, B. C.	29.99	761.7	42	5.6		nnw.			1		4							d. clouds.
H. M. S. Serapis, N. 18° 50′ E. 72° 20′	29.76	755.9	82	27.8	67	w.			1		3	w.						d. clouds.
H. M. S. Superb, Corfu Roads, Ionian Islnd*	30.03	762.7	80	26.7	55	nne.			2		1	sse.						blue sky.
H. M. S. Tamar, N. 43° 48′, W. 8° 36′	30.12	765.0	57.5	14.2	87	ssw.			4		10	ssw.				3	wsw.	d. clouds.
H. M. S. Thalia, S. 22° 12′, E. 2° 10′	30.17	766.3	70.5	21.4	79	e.			5		5					2	e.	d. clouds.
H. M. S. Triumph, Coquimbo, Chili	29.93	760.2	57	13.9	93	calm			0		2	calm						foggy.
H. M. S. Tyne, N. 11° 33′, E. 54° 48′	29.87	758.7	83	28.3	100	calm			0		0							blue sky.
Portuguese Naval.																		
Rio Lima, Bulama, Senegambia	30.10	764.4	72.1	22.3	93	n.			5		5		n.			4	n.	gloomy.
Tamega, Aberdeen, China	29.96	760.9	75.2	24.0	74	calm			0		2					4		d. clouds.
Swedish Naval.																		
Balder, N. 39° 21′ W. 62° 44′	29.47	748.6	61.2	16.2	88	sse.			2		10							overcast.
United States Naval.																		
Navy Yard, Pensacola, Fla	29.92	760.0	74	23.3	81	nw.	3	1.3			8		sw.	0.02	0.5			fair.
Naval Hospital, Portsmouth, N. H.	29.45	748.0	44	6.7	68	nw.	6	2.7			10		w.	0	0			cloudy.
Naval Hospital, Yokohama, Japan	29.87	758.7	62.5	15.9	66	sw.			6		2		sw.	0	0			clear.
Adams, N. 16° 04′, W. 98 37′	29.71	754.6	84	28.9	87	nw.			2		2		nw.	0	0	sm'h		clear.
Alaska, Panama, Panama	29.87	758.7	76	24.4	86	nw.			1		2		n.	0	0	sm'h		fair.
Alert, Kobe, Japan*	29.89	759.2	67	19.4	79	calm			0		10		calm			long	s.	drizzling.
Alliance, N. 22° 20′ W. 89° 17′	29.89	759.2	78	25.6	91	se.			5		2			0	0	sm'h		clear.
Ashuelot, Kobe, Japan	29.97	761.2	62	16.7	88	calm			0		10							light rain.
Brooklyn, Montevideo, Uruguay	30.29	769.4	55	12.8	74	s.	20	8.9			2		s.	0	0	r'gh	s.	fair.
Colorado, New York, N. Y.	29.58	751.3	47	8.3	55	wsw.	19	8.5			2		w.	0	0			hazy.
Enterprise, N. 21° 42′, W. 84° 57′*	29.96	761.0	80	26.7	87	se.			3		2		se.			sm'h		clear.
Essex, S. 12° 36′, W. 27° 17′	30.03	762.7	80	26.7	78	se.			2		2		se.			long	s.	fair.
Franklin, Norfolk, Va.	29.82	757.4	54	12.2	49	wsw.	8	3.6			0			0	0			clear.
Galena, Leghorn, Italy	30.16	766.1	66	18.9	84	n.			2		2					sm'h		fair.
Independence, Mare Island, Cal.	30.02	762.5	44	6.7	92	nw.			1		0			0	0			clear.
Iroquis, Mare Island, Cal.	30.16	766.1	49	9.4	71	calm			0		1		sw.					clear.
Kearsage, N. 35° 00′, W. 74° 30′	29.84	757.9	65	18.3	63	nw.			3		2		nw.			mod.	nw.	fair.
Lackawanna, Casma, Peru†	30.05	763.3	63	17.2	94	sw.			1		2		n.					clear.
Lancaster, Leghorn, Italy*	30.10	764.5	67	19.4	74	nw.			2		2		calm	0	0			fair.
Marion, S. 24° 53′, W. 2° 20′	30.20	767.1	72	22.2	85	nne.			3		10		calm	0	0	sm'h		cloudy.
Michigan, Erie, Pa	29.73	755.1	40	4.4	100	nw.			6		8		w.					cloudy.
Minnesota, Newport, R. I.	29.44	747.8	44	6.7	76	nw.	8	3.6			10		nw.					raining.
Monocacy, Kobe Japan	29.99	761.7	65	18.3	89	calm			0		10		calm					cloudy.
New Hampshire, Newport, R. I.	29.42	747.3	30	— 1.1	100	wnw.			2		10		wnw.			sm'h		cloudy.
Nipsic, Villafranca, France	30.18	766.6	70	21.1	61	ssw.			1		0					sm'h		clear.
Onward, Callao, Peru†	30.08	764.0	61	16.1	100	calm			0		10		n.			long	w.	foggy.
Palos, Kobe, Japan	29.99	761.7	64	17.8	78	calm			0		10		calm					rainy.
Passaic, Washington, D. C.	29.82	757.4	50	10.0	86	w.			2		2		w.					fair.
Pensacola, Callao, Peru	30.00	762.0	61	16.1	94	wnw.	1	0.4			10			0	0	sm'h		foggy.
Powhatan, Havana, Cuba, W. I.	30.02	762.5	79	26.1	95	calm			0		0							clear.
Portsmouth, N. 40° 25′, W. 62° 53′	29.45	748.0	63	17.2	94	ssw.			2		10		sw.			r'gh	sw.	overcast.
Quinnebaug, Leghorn, Italy	30.13	765.3	65	18.3	73	nnw.			3		2		nne.			sm'h		clear.
Ranger, Mazatlan, Mexico	29.86	758.4	67	19.4	74	calm			0		2		calm	0	0	sm'h		clear.
Richmond, Kobe, Japan*	29.92	760.0	65	18.3	89	calm			0		10		calm	0	0			cloudy.
Saratoga, N. 40° 55′ W. 62° 04′	29.41	747.0	60	15.6	?	ssw.			3-4		10		ssw.	0	0	r'gh	ssw.	cloudy.
Shenandoah, N. 22° 15′, W. 84° 57′*	30.04	763.0	79	26.1	82	se.			3		5		se.			sm'h		fair.
St. Louis, League Island, Pa.	29.90	759.4	47	8.3	62	w.	14	6.3			5		nw.	0	0			fair.
Swatara, Kobe, Japan*	29.79	756.7	68	20.0	74	calm			0		10		calm			sm'h		light rain.
Tennessee, Port Royal, S. C.	29.98	761.5	67	19.4	84	wnw.	4	1.8			2			0.10	2.5			fair.
Vandalia, Hampton Roads, Va†	30.12	765.0	55	12.8	62	wnw.			3		0							clear.
Wabash, Boston, Mass.	29.48	748.8	46	7.8	69	wnw.	8	3.6			10		wnw.	0.05	1.3			rainy.
Wachusetts, Sitka, Alaska	28.90	734.0	33	0.6	100	calm			0		10		calm			sm'h		raining.
Wyoming, Port Royal, S. C.	29.95	760.7	64	17.8	73	calm	0	0			2		calm	0.03	0.8			clear.
Yantic, Fort Monroe, Va*†	30.04	763.0	55	12.8	80	w.			3		0							hazy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Nova Scotian, N. 50° 45′, W. 31° 04′	29.66	753.4	52	11.1	.....	n.	.....	.....	2	.....	2	.....	nne.	.....	.....	long	nw.	fair.
S. S. Polynesian, N. 55° 16′ W. 6° 28′*	29.75	755.6	51	10.6	.....	ssw.	.....	.....	7	.....	3	.....	wsw.	0	0	mod.	ne.	fair.
S. S. Waldensian, N. 49° 13′, W. 34° 17′*	30.16	766.1	46	7.8	.....	nnw.	.....	.....	6	.....	10	.....	nw.	0	0	high	nw.	squally.
AMERICAN STEAMSHIP COMPANY.																		
S. S. British Crown, N. 43° 50′, W. 39° 56′†	30.54	775.7	52	11.1	.....	nw.	.....	.....	3	.....	8	.....	n.	0	0	mod.	nw.	cloudy.
S. S. Illinois, N. 50° 59′, W. 12° 52′	29.77	756.1	55	12.8	93	s.	.....	.....	5	.....	5	.....	w.	.....	.....	sm'h	s.	fair.
S. S. Indiana, Philadelphia, Pa.†	29.72	754.9	46	7.8	60	nw.	.....	.....	4	.....	8	.....	nw.	light	light	.....	.....	cloudy.
S. S. Ohio, Liverpool, Eng.†	30.07	763.8	59	15.0	94	sw.	.....	.....	3	.....	10	.....	nw.	.....	.....	.....	.....	overcast.
S. S. Pennsylvania, N. 46° 11′, W. 34° 27′†	30.04	763.0	53	11.7	86	n.	.....	.....	6	.....	.....	.....	n.	.....	.....	r'gh	nw.	d. clouds.
ANCHOR LINE.																		
S. S. Assyria, N. 46° 02′, W. 32° 47′*†	30.04	763.0	49	9.4	.....	wnw.	.....	.....	8	.....	5	.....	wnw.	0	0	h'vy	wnw.	squally.
S. S. Devonia, N. 47° 26′ W. 40° 10′†	30.18	766.6	51	10.6	.....	wnw.	.....	.....	4	.....	2	.....	wnw.	.....	.....	mod.	nw.	clear.
S. S. Galatia, N. 49° 23′, W. 7° 37′†	30.09	764.3	.....	.....	.....	ssw.	.....	.....	3	.....	9	.....	ssw.	0	0	long	wnw.	overcast.
S. S. India, N. 19° 51, E. 38° 41′*	29.79	756.7	85	29.4	92	se.	.....	.....	2	.....	0	.....	.....	.....	.....	.....	.....	clear.
ATLAS LINE.																		
S. S. Atlas, Saint Marc, Hayti, W. I†	30.11	764.8	84	28.9	83	calm	.....	.....	0	.....	2	.....	calm	0	0	.....	.....	very fine.
S. S. Alvo, Savanilla, U. S. C	30.31	769.9	103	39.4	.....	se.	.....	.....	2	.....	2	.....	se.	0	0	.....	.....	fair.
S. S. Arden, N. 27° 00′, W. 74° 30′	.....	.....	.....	.....	.....	ese.	.....	.....	1	.....	2	.....	s.	.....	.....	mod.	ene.	clear.
S. S. Claribel, N. 17° 53′, W. 77° 32′*†	30.17	766.3	81	27.2	87	ese.	.....	.....	3	.....	4	.....	calm	0	0	mod.	se.	fine.
BRITISH METEOROLOGICAL OFFICE.																		
S. S. Arran, S. 16° 52′, W. 28° 29′	30.04	763.0	82.5	28.1	66	ese.	.....	.....	3	.....	3	.....	.....	.....	.....	.....	.....	d. clouds.
Baroda, N. 11° 26′ E. 81° 29′	29.72	754 9	88.5	31.4	73	calm	.....	.....	0	.....	2	.....	.....	.....	.....	.....	.....	blue sky.
British Merchant, S. 21° 36′ E. 68° 55′	29.97	761.2	78.8	26.0	84	se.	.....	.....	5	.....	4	.....	.....	.....	.....	.....	.....	d. clouds.
CUNARD LINE.																		
S. S. Parthia, N. 50° 32′, W. 14° 22′†	29.88	758.9	.....	.....	.....	se.	.....	.....	4	.....	10	.....	ssw.	0	0	mod.	cross	hazy.
S. S. Scythia, N. 40° 43′, W. 60° 08′	29.52	749.8	63	17.2	94	s.	.....	.....	5	.....	1	.....	s.	8 h'r	8 h'r	r'gh	s.	clear.
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. Canada, Havre, France	30.20	767.0	57.2	14.0	.....	s.	.....	.....	3	.....	5	.....	sw.	5 h'r	5 h'r	.....	.....	
S. S. France, N. 45° 37′, W. 36° 58′	.....	.....	53.6	12.0	.....	n.	.....	.....	6	.....	.....	.....	nnw.	.....	.....	hv'y	nnw.	light rain.
S. S. St. Germain, N. 40° 32′ W. 62° 27′	.....	.....	64.4	18.0	.....	s.	.....	.....	1	.....	.....	.....	s.	0	0	h'vy	sw.	clear.
GUION LINE.																		
S. S. Wisconsin, N. 42° 00′ W. 56° 30′*†	29.68	753.9	54	12.2	87	s.	.....	.....	5	.....	8	....	sw.	6 h'r	6 h'r	r'gh	sw.	cloudy.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Lessing, N. 47° 35′, W. 26° 11′	29.71	754.6	69	20.6	.....	nw.	.....	.....	3	.....	5	.....	nw.	0	0	long	nw.	
S. S. Silesia, New York, N. Y.†	29.60	751.8	43.0	6.1	.....	w.	.....	.....	6	.....	5	.....	w.	0	0	.....	.....	fair.
JOHNSTON LINE.																		
S. S. Thanemore, N. 50° 38′, W. 14° 44′	29.92	760.0	.....	.....	.....	se.	.....	.....	1	.....	5?	.....	ese.	0	0	.....	w.	clear?
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, N. 4° —′, W. 27° 30′*†	30.19	766.8	83	28.3	.....	ne.	.....	.....	3	.....	4	.....	s.	0	0	long	wsw.	clear.
S. S. Humboldt, S. 11° 02′, W. 35° 47′*	30.02	762.5	85.7	29.8	74	e.	.....	.....	1	.....	8	....	.....	0	0	3	se.	d. clouds.
LEYLAND LINE.																		
S. S. Iberian, N. 45° 17′, W. 44° 32′	30.07	763.8	.....	.....	.....	sse.	.....	.....	3	.....	10	.....	w.	16 h'r	16 h'r	light	nw.	raining.
MALLORY LINE.																		
S. S. Colorado, N. 40° 04′, W. 73° 59′†	29.53	750.0	44	6.7	.....	w.	.....	.....	6	.....	3	.....	w.	2 h'r	2 h'r	mod.	sw.	clear.
MERCHANTS' EXPRESS LINE.																		
S. S. Froja, N. 47° 35′, W. 29° 22′†	29.75	755.6	56	13.3	81	sw.	.....	.....	4	.....	2	....	wsw.	0	0	mod.	wsw.	fine.
MERCHANTS' STEAMSHIP COMPANY.																		
S. S. Glenapp, N. 35° 21′, W. 69° 32′*†	29.70	754.4	.....	.....	.....	nw.	.....	.....	5	.....	9	.....	nw.	8 h'r	8 h'r	high	nw.	thnd'r st'rm
NATIONAL LINE.																		
S. S. Denmark, N. 40° 32′, W. 64° 12′	29.50	749.3	54	12.2	.....	wsw.	.....	....	1	.....	5	.....	se.	0	0	long	s.	hazy.
S. S. England, N. 51° 09′, W. 12° 12′	29.91	759.7	.....	.....	.....	sw.	.....	.....	5	.....	2	.....	.....	0	0	light	sw.	clear.
S. S. Erin, London, England	30.19	766.8	69	20.6	.....	ssw.	.....	.....	2	.....	0	.....	.....	0	0	.....	.....	fine.
NEW YORK HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, New York, N. Y*†	29.63	752.6	46	7.8	.....	w.	.....	.....	7	.....	3	.....	w.	0	0	.....	.....	clear.
S. S. City of Puebla, Vera Cruz, Mexico.†	29.68	753.9	78	25.6	.....	sse.	.....	.....	1	.....	sk.	....	.....	.....	.....	.....	.....	
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Atlas, N. 23° 50′, W. 74° 23′*†	30.18	766.6	79	26.1	.....	var.	.....	.....	1	.....	.....	.....	.....	.....	.....	sm'h	.....	hazy.
S. S. New York, N. 25° 55′, W. 84° 55′*†	30.00	762.0	79	26.1	.....	sw.	.....	.....	3	.....	.....	.....	.....	.....	.....	.....	sw.	clear.
S. S. W. A. Scholten, N. 47° 56′ W. 22° 54′	29.67	752.1	48.8	9.3	.....	ne.	.....	.....	4	.....	.....	.....	.....	.....	.....	mod.	.....	rainy.
NORTH GERMAN LLOYD.																		
S. S. Elbe, N. 41° 50′, W. 60° 38′	29.43	747.5	58.1	14.5	55	s.	.....	.....	2–5	.....	10	.....	s.	rain	rain	r'gh	s.	light rain.
S. S. Graf Bismarck, S. 0° 38′, W. 31° 10′	30.07	763.8	85.1	29.5	.....	ese.	.....	.....	3	.....	3	.....	ese.	1 h'r	1 h'r	mod.	ese.	fair.
S. S. Hohenzollern, N. 47° 27′, W. 4° 17′*	30.18	766.6	55.4	13.0	.....	se.	.....	.....	4	.....	8	.....	se.	0	0	sm'h	se.	cloudy.
S. S. Koln, N. 49° 56′, W. 5° 02′	30.11	764.8	53.5	11.9	93	sse.	.....	.....	4	.....	8	.....	se.	0	0	sm'h	sse.	cloudy.
S. S. Kronprinz F. Wilhelm, N. 49° 05′, W. 27° 33′	29.75	755.6	53.6	12.0	.....	sw.	.....	.....	1	.....	2	.....	w.	sh'rs	shr's	3	sw.	fair.
S. S. Main, N. 49° 42′, W. 9° 07′	30.06	763.5	54.5	12.5	.....	se.	.....	.....	4	.....	4?	.....	se.	0	0	mod.	sse.	cloudy.?
S. S. Mosel, N. 49° 11′ W. 22° 08′	29.73	755.1	48	8.9	.....	s.	.....	.....	4	.....	10	.....	wsw.	4 h'r	4 h'r	h'vy	wsw.	showery.
S. S. Nurnburg, N. 46° 06′, W. 35° 22′*	30.05	763.3	53.6	12.0	.....	nw.	.....	.....	7	.....	7	.....	nw.	11¾	h'r	r'gh	nw.	cloudy.
S. S. Oder, N. 41° 14′, W. 65° 36′	29.47	748.5	41.0	5.0	.....	w.	.....	.....	3	.....	6	.....	w.	0	0	sm'h	w.	cloudy.
S. S. Ohio, N. 44° 10′, W. 35° 47′	30.21	767 3	.....	.....	.....	wnw.	.....	.....	7	.....	6	.....	wnw.	4 h'r	4 h'r	h'vy	wnw.	fair.
S. S Rhein, N. 45° 53′, W. 34° 10′	29.97	761.2	.....	.....	.....	nnw.	.....	.....	6	.....	5	.....	n.	6 h'r	6 h'r	high	nnw.	squally.
S. S. Salier, N. 40° 39′, W. 63° 02′	29.45	748.0	59.0	15.0	.....	ese.	.....	.....	3	.....	10	.....	se.	0	0	long	ssw.	cloudy.
S. S. Strassburg, N. 37° 01′, W. 75° 23′	29.81	757.2	52.0	11.1	93	ne.	.....	.....	1–2	.....	0	.....	.....	0	0	sm'h	.....	clear.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Belgic, N. 37° 47′ W. 129° 17′†	30.30	769.6	53	11.7	61	w.	.....	.....	3	.....	5	.....	wnw.	0	0	r'gh	nw.	fair.
S. S. Oceanic, Hong Kong, China*	29.79	756.7	76	24.4	77	s.	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	cloudy.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, New York, N. Y †	29.45	748.0	.....	.....	.....	nw.	.....	.....	9	.....	8?	.....	nw.	0	0	.....	.....	clear.?
S. S. Seminole, N. 33° 40′, W. 77° 40′†	29.94	760.5	68	20.0	70	wnw.	.....	.....	4	.....	0	....	.....	0	0	mod.	sse.	clear.
OREGON IMPROVEMENT COMPANY.																		
S. S. Mississippi, N. 38° 41′, W. 123° 32′†	30.27	768.8	47	8.3	70	nnw.	.....	.....	3	.....	2	.....	ne.	.....	.....	mod.	nw.	fair.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. City of Chester, N. 48° 19′, W. 122° 54′*†	30.14	765.5	43	6.1	?	ese.	.....	.....	6	.....	5?	.....	e.	.....	.....	small	se.	cloudy.?
S. S. Oregon, Portland, Oregon†	30.05	763.3	40	4.4	91	sse.	.....	.....	1	.....	10	.....	s.	.....	.....	.....	.....	light rain.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, N. 35° 54′, W. 121° 33′†	30.11	764.8	47	8.3	92	nnw.	.....	.....	3	.....	0	.....	.....	.....	.....	mod.	wnw.	clear.
S. S. Idaho, N. 38° 45′, W. 123° 45′†	29.86	758.4	46	7.8	92	wsw.	.....	.....	6	.....	10	.....	ssw.	.....	.....	h'vy	ssw.	stormy.
S. S. State of California, N. 40° 20′ W. 124° 30′†	30.22	767.6	46	7.8	69	se.	.....	.....	4	.....	10	.....	se.	.....	.....	mod.	w.	light rain.
S. S. Victoria, Nanaimo, Vancouver's Island, B. C.†	29.87	758.8	43	6.1	83	se.	.....	.....	2	.....	2	.....	.....	2 h'r	2 h'r	.....	.....	clear.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, S. 33° 53′ E. 158° 54′	30.18	766.6	65	18.3	84	ese.	.....	.....	3	.....	2	.....	ene.	.....	.....	sm'h	e.	clear.
S. S. City of New York, Sydney, N. S. W.†	30.14	765.5	71	21.7	85	ne.	.....	.....	1	.....	1	.....	ne.	0	0	.....	.....	overcast.?
S. S. City of Pekin, Acapulco, Mexico†	29.95	760.7	80	26.7	78	calm	.....	.....	0	.....	0	.....	.....	.....	.....	sm'h	.....	clear.
S. S. City of Rio de Janeiro, Panama, Panama*†	30.15	765.8	79	26.1	82	n.	....	.....	4	.....	3	.....	n.	.....	.....	sm'h	n.	clear.
S. S. City of Tokio, N. 35° 03′, E. 166° 11′†	29.92	760.0	61	16.1	?	s.	.....	.....	9	.....	10	....	sw.	8 h'r	8 h'r	mod.	ssw.	cloudy.
S. S. Clyde, N. 15° 47′, W. 94° 22′†	29.97	761.2	83	28.3	75	wsw.	.....	.....	3	.....	5	.....	sw.	0	0	light	sw.	fair.
S. S. Colon, N. 24° 29′, W. 74° 15′†	30.10	764.5	78	25.6	.....	sw.	.....	.....	2	.....	0	.....	.....	0	0	sm'h	w.	clear.
S. S. Grenada, N. 31° 29′, W. 119° 35′†	30.11	764.8	54	12.2	87	nnw.	.....	.....	5	.....	5	.....	nw.	0	0	large	nw.	hazy.
S. S. South Carolina, N. 7° 20′, W. 80° 09′†	30.03	762.7	78	25.6	100	w.	.....	.....	2	.....	2	....	n.	0	0	light	w.	fair.
S. S. Zelandia, N. 8° 28′, W. 103° 03′	29.92	760.0	83	28.3	83	ne.	.....	.....	4	.....	0	.....	.....	.....	.....	mod.	ne.	clear.
QUEBEC STEAMSHIP CO.																		
S. S. Muriel, Dominica, W. I.	30.06	763.5	80	26.7	.....	e.	.....	.....	4	.....	0	.....	.....	0	0	sm'h	.....	fine.
S. S. Bermuda, N. 21° 45′, W. 64° 35′†	30.22	767.6	62	16.7	.....	ese.	.....	.....	3	.....	9	.....	se.	2 h'r	2 h'r	mod.	ese.	fine.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
RED STAR LINE.																		
S. S. Belgenland, N. 49° 34′, W. 8° 30′†	30.09	764 3	55	12.8	100	wsw.			2		6		wsw.	0	0	h'vy	w.	fair.
S. S. Rhynland, N. 40° 18′, W. 59° 10′†	29.60	751.8	62	16.7	88	s.			3		10		ssw.	1.	25.	long	sw.	cloudy.
S. S. Switzerland, N 51° 06′, E. 1° 21′†	30.31	769.9				sw.			2		10		sw.	0	0	sm'h		foggy
S. S. Vaderland, Antwerp, Belgium	30.05	763.3	60	15.6	88	se.			2		07			0	0			cloudy.†
S. S. Waesland, N. 43° 13′, W. 37° 20′	30.27	768.8	52	11.1		nw.			6		8		nw.	rain	rain	mod	nw.	fair.
ROTTERDAM LINE.																		
S. S. Schiedam, N. 40° 47′ W. 65° 59′*	29.45	748.0	43.7	6.5	98	wnw.			1		8		w.	2 h'r	2 h'r	cross	wsw.	cloudy.
STATE LINE.																		
S. S. State of Florida, Glasgow, Scotland	29.96	761.0	56	13.3		s.			3		9		s.	0	0			cloudy.
S. S. State of Georgia, N. 40° 15′, W. 68° 30′†	29.53	750.0	42	5.6		w.			5		0					long	sw.	clear.
S. S. State of Indiana, N. 50° 02′, W. 31° 00′†	29.54	750.3	51	10.6		var.			2		2			2 h'r	2 h'r	mod.	wnw.	fair.
THINGVALLA LINE.																		
S. S. Thingvalla, N. 50° 33′, W. 36° 01′†	30.17	766.3	47.3	8.5		nnw.			4		4		nnw.	2 h'r	2 h'r	mod.	nnw.	clear.
WARREN LINE																		
S. S. Iowa, N. 51° 11′, W. 12° 09′*†	30.08	764.0	50	10.0		sse			4		10		sse.	4 h'r	4 h'r	long	wsw.	hazy.
WHITE CROSS LINE.																		
S. S. Hermann, N. 48° 30′, W. 22° 10′†	29.79	756.7				ese.			5		10 n		e.	rain	rain	hv'y	e.	raining.
WHITE STAR LINE.																		
S. S. Celtic, N 41° 02′, W. 68° 42′†	29.43	747.5	42	5.6		wsw.			4		2		wsw.	light	light	mod.	wsw.	fair.
WILSON LINE.																		
S. S. Salerno, N. 49° 45′, W. 16° 47′*	29.77	756.1	52	11.1	100	e.			1		10		e.			mod.	ssw.	raining.
WINSOR LINE.																		
S. S. Catherine Whiting, Providence, R. I.†	29.60	751.8				calm			0					rain	rain			
S. S. Norman, N. 40° 15′, W. 70° 18′	29.58	751.3				nw.			1		10			3 h'r	3 h'r	sm'h		squally.
MISCELLANEOUS.																		
Schr. Abbe Clifford, N. 39° 48′, W. 66° 08′*†	29.55	750.6	56	13.3		wnw.			3		10		wsw.	¼ h'r	¼ h'r	r'gh	sw.	threatening
Sch. Addie Fuller, N. 35° 12′ W. 74° 54′†	29.91	759.7	62	16.7	66	nnw.			3		0			0	0		sw.	clear.
Bk. Adelaide, Rio de Janeiro, Brazil*†	30.05	763.3	75	23.9		calm			0									
Schr. Ajax, Mobile, Ala†	30.00	762.0				calm			0		1		w.	0	0			foggy.
Bk. Alpha, Off Santiago de Cuba, Cuba, W. I†	29.99	761.7	82	27.8		calm			0		2			c	0			fair.
Schr Annie Lewis, N 28° 58′, W. 87° 09′†	30.03	762.7	78	25.6		se.			1		10		s.	0	0	long	sse.	misty.
Bk. Antioch, S. 39° 24′, E. 17° 30′*†	29.70	754.4	60	15.6		wsw.			8		9		sw.	1 h'r	1 h'r	mod.	wsw.	overcast.
Bk. Aureola, S. 2° 33′, W. 29° 24′*†	30.08	764.0	92	33.3		se			3		6		se.	2 h'r	2 h'r	mod	se.	squally.
Schr. Annie M. Smull, S. 41° 28′, E. 62° 00′*†	29.80	756.9	54	12.2										0	0			
Bkt. Carrie Heckle, N. 21° 30′, W. 80° 05′*†	30.14	765.5	81	27.2		se.			2		2		se.	0	0		se.	clear.
Bk. Celestina, S. 32° 11′, W. 46° 51′*†	29.92	760.0				calm			0		10		sw.	0	0	long	ssw.	
Bk. Champion, N. 47° 14′, W. 20° 59′†	29.71	754.6				s.			3		10		ssw.	10 h'r	10 h'r	long	w.	
S. S. Compton, Cardenas, Cuba, W. I†	30.06	763.5				s.			2		0			0	0			clear.
S. Dora, N. 37° 20′, W. 68° 40′†	29.65	753.1	64.4	18.0		nw.			7		5		nw.	3 h'r	3 h'r	high	w.	fair.
S. E. J. Spicer, N. 40° 12′, W. 68° 02′†	29.62	752.3				sw.			6		2		sw.	0	0	mod.	ssw	
Bk. E. L. Pettingill, N. 34° 34′, W. 125° 56′†	30.50	774.7				n.			5		5		n.	0	0	mod.	n.	d. clouds.
S. Enoch Train, N. 38° 27′ W. 37° 33′*	30.34	770.6				wnw.			2		4		wnw.	hail	hail	h'vy	wnw.	clear.
S. Exporter, N. 0° 0′, W. 25° 30′*†	30.10	764.5				e. to se.			2		2		se.	0	0	long	se.	fine.
S. Festina Lente, N. 39° 17′, W. 54° 15′*	29.86	758.4	64	17.8		ssw.			7		10		ssw.	0	0	r'gh	sw.	misty.
U.S.F.C.S.S. Fish Hawk, Quantico, Va†	29.97	761.2	50	10.0	64	nw.			5		3		n.	0	0			clear.
S. Grecian, S. 40° 44′ E. 29° 07′*†	29.77	756.1	50	10.0		sw.			7		4		sw.	sq'ls	sq'ls	cross	nw.	clear.
Bk. Freya, N. 44° 08′ W. 30° 51′			50	10.0		nnw.			7		8		nnw.	3 h'r	3 h'r	high	nw.	squally.
Bk. Granville, Algoa Bay, Africa*†	30.04	763.0				wnw.			1					0	0			clear.
Schr. Hattie G. McFarland, Baltimore, Md*†	29.75	755.6	55	12.8		nw.			3		9		nw.	0	0			cloudy.
Schr. Henry Denison, N. 22° 32′, W. 74° 25′†	30.04	763.0				ese.			3		2		e.	0	0	sm'h	ene.	fair.
S. Hedwig, N. 40° 09′, W. 53° 08′	29.88	759.0	64.0	17.8	89	ssw.			9		9		ssw.	5 h'r	5 h'r	5	s.	stormy.
Schr. John L. Thomas, N. 16° 50′, W. 79° 28′*†	30.16	766.1				e.					4		ese.	0	0	h'vy	ese.	fine.
Bg. John Wesley, Sagua la Grande, Cuba, W. I.†	29.95	760.7	80	26.7		sse.			2		0			0	0			clear.
Bk. Jona, N. 45° 36′, W. 26° 19′*†	30.00	762.0				wnw.			1		5		nw.	5 h'r	5 h'r	mod.	wnw.	clear.
Bkt. Josephine, N. 9° 39′ W. 79° 52′*†	30.06	763.5	83	28.3	70	nne.			4		10		nne.	0	0	mod.	nne.	cloudy.
Bk. Kate Cann, N. 49° 17′, W. 11° 00′						nnw.			7		5		nnw.	6 h'r	6 h'r	cross	nnw.	rainy.
Bkt. Kryolith, N 41° 17′ W. 12° 20′*†	30.10	764.5				ssw.			4		2		sw.	0	0	mod.	nw.	
S. Lake Erie, N. 44° 00′, W. 34° 40′	30.03	762.7				wnw.			8		5?		nw.	sleet	sleet	h'vy	nw.	clear.†
Bk. Liberia, N. 10° 00′, W. 18° 08′*†	30.05	763.3	75	23.9	90	n. to nw			2		3		nw.	0	0			
Light House Tender, Laurel, Key West, Florida†	30.04	763.0	79	26.1		sw.			2		8		sw.	0	0			cloudy.
Schr. Maggie Abbot, N. 20° —′, W. 74° —′*†	30.02	762.5				w.								0	0			clear.
S. S. Malabar, N. 32° 13′ E. 29° 50′*†	29.89	759.2												0	0			
Bg. Medina, Key Francis, W. I.†	30.15	765.8				s.			1		0							fine.
S. S. Nebo, Santos, Brazil*†	29.65	753.1				nw.			4		5			20 h'r	20 h'r			heavy rain.
S. S. New York, Off Cape de Gata, Spain*†	30.40	772.1				e.			1					0	0	sm'h		fair.
Bk. Peppina, Bordeaux, France†	30.09	764.3	70	21.1	56	se.			2		2		s.					fair.
S. Salisbury, S. 10° 02′ W. 26° 03′*.	30.02	762.5	88.3	31.3	90	ese.			3		7		ese.	0	0	long	ssw.	cloudy.
Schr. S. B. Hubbard, Hampton Roads, Va*†	29.81	757.2	60	15.6		w.			1		2		sw.	sh'rs	sh'rs			fine.
Bkt. Spotless, S. 10° 55′, W. 33° 53′						ese.							se.			mod.	s.	fine.
Bk. Stella, S. 39° 00′, W. 84° 30′*	29.65	753.1	64.8	18.2	82	nw.			5		7		w.	rain	rain	rg'h	w.	raining.
S. Washington, N. 38° 50′, W. 48° 30′*†	30.20	767.1				sse.			6		10		sse.	0	0	r'gh	sw.	cloudy.
Bg. Wauburn, N. 5° 34′. W. 42° 11′*†	30.00	762.0				ne.			6		9		ene.			sm'h		
S. Wm. Woodbury, N. 37° 33′, W. 41° 28′*†	30.28	769.1	57	13.9		sw.			2				w.			long	nne.	clear.

International Chart I. April 21, 1882. Isobars and Isotherms.



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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON APRIL 22, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
ALGERIAN.																			
Nemours	.....	.....	30.11	764.8	70.2	21.2	76	ne.	.....	.....	2	.....	0	.....	.....	0	0	clear	Moiroud
Algiers	.....	.....	30.08	763.9	71.6	22.0	47	ene.	.....	.....	1	.....	0	.....	.....	0	0	clear	Nicolas.
La Calle	.....	.....	30.15	765.9	69.1	20.6	61	ne.	.....	.....	1	.....	2	.....	.....	0	0	very fair	Fonfrède.
Tunis	.....	.....	30.15	765.7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.16	766.1	88.2	31.2	11	nw.	.....	.....	2	.....	0	.....	.....	0	0	clear	Dumas.
Tebessa	.....	.....	30.15	765.9	52.9	11.6	40	s.	.....	.....	1	.....	1	.....	.....	0	0	very fair	Derché.
Geriville	.....	.....	.....	.....	82.0	27.8	11	w.	.....	.....	2	.....	0	.....	.....	0	0	clear	Lonchamp.
Laghouat	.....	.....	30.21	767.2	79.5	26.4	52	se.	.....	.....	2	.....	0	.....	.....	0	0	clear	Abraham.
Biskra	.....	.....	30.20	767.0	81.7	27.6	15	ssw.	.....	.....	1	.....	0	.....	.....	0	0	clear	Malau.
AUSTRALIAN.																			
Melbourne, Victoria	29.65	753.1	29.74	755.4	68.0	20.0	72	n.	9	4.0	.....	.....	10	.....	.....	0	0	dull	R. L. J. Ellery.
AUSTRO-HUNGARIAN.																			
Agram	29.58	751.3	30.15	765.7	62.6	17.0	42	e.	.....	.....	2	.....	3	.....	.....	0	0	.....	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.38	749.3	30.14	765.6	62.2	16.8	51	ne.	1.8	0.8	.....	.....	3	.....	.....	0	0	.....	Dr. Wierzbiski.
Eperies	29.21	742.0	30.08	764.0	63.7	17.6	44	n.	.....	.....	2	2 cs	0	.....	.....	0	0	.....	Julius Mikolik.
Gratz	28.91	734.3	30.15	765.9	59.7	15.4	55	e.	.....	.....	2	.....	0	.....	.....	0	0	.....	Andreas Rospini.
Hermannstadt	28.61	726.8	30.01	762.2	67.3	19.6	44	n.	.....	.....	2	.....	10	.....	.....	0	0	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.77	730.7	30.09	764.3	61.0	16.1	59	ene.	.....	.....	3	.....	0	.....	.....	0	0	clear	The Staff.
Lemberg	29.10	739.1	30.08	763 9	60.4	15.8	42	ne.	.....	.....	1	.....	2	.....	.....	0	0	.....	Dr. T. Stanecki.
Pola	30.02	762.5	30.13	765.3	64.4	18.0	51	w.	.....	.....	2	.....	3	.....	.....	0	0	.....	I. R. Hydrographic Office.
Szathmar	29.58	751.2	30.03	762.8	68.2	20.1	40	nw.	.....	.....	2	.....	5	.....	.....	0	0	.....	Joseph Midlinszky, S. J.
Szegedin	29.79	756.7	30.07	763.7	63.9	17.7	45	nw.	.....	.....	1	.....	5	.....	.....	0	0	.....	Karl Stancel.
Trieste	30.05	763.2	30.15	765.8	66.6	19.2	28	ne.	.....	.....	1	.....	2	.....	.....	0	0	.....	Rieder.
Vienna	29.44	747.7	30.15	765.7	61.9	16.6	42	e.	.....	.....	1	.....	1	.....	.....	0	0	.....	I. R. Central Met. Obs'y.
BRITISH.																			
Aberdeen	29.65	753.1	29.75	755.6	47.4	8.6	85	e.	9	4.0	.....	.....	7	.....	.....	0.210	5.3	d. clouds	W. Boswell.
Armagh, Observatory	29.25	742.9	29.48	748.8	53.0	11.7	84	se.	11	4.9	.....	.....	10	.....	.....	.....	.....	gloomy	S. Call.
Bidston, Liverpool Obs'y	..R..	.....	29.53	750.0	52.1	11.2	96	ese.	19	8.5	.....	.....	10	.....	.....	.....	.....	raining	John Hartnup.
Bolton, Sharples	29.04	737.6	29.58	751.3	51.7	10.9	93	sse.	6	2.7	.....	.....	10	.....	.....	.....	.....	raining	Thomas Mackereth, [A.S.
Bradford, Yorkshire	29.19	741.4	29.58	751.3	52.7	11.5	89	se.	.....	.....	1	.....	10	.....	.....	0.49	12.4	raining	J. McLandsborough, F. R
Bridgetown, Barbadoes	30.02	762.5	30.05	763.3	83.0	28.3	64	ne.	.....	.....	3	.....	2	.....	.....	.....	.....	d. clouds	Corpl. J. Surgenor, A. H.C.
Cardington	.....	.....	29.62	752.3	55.6	13.1	83	s.	.....	.....	1.0	.....	10	.....	.....	.....	.....	raining	John McLaren.
Chatham, School M. E.	29.50	749.3	29.63	752.6	53.1	11.7	94	s.	.....	.....	1	.....	9	.....	.....	blank	blank	misty	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	29.30	744.2	29.53	750.0	57.0	13.9	69	s.	.....	.....	4	.....	5	.....	.....	.....	.....	misty	The Staff.
Fort Napier, Natal	27.76	705.1	29.98	761.5	69.0	20.6	56	se.	.....	.....	2	.....	6	.....	.....	.....	.....	.....	Pvt. E. K. Annis, A. H.C.
Free Town, Sierra Leone	29.68	753.9	29.91	759.7	86.0	30.0	72	sw.	.....	.....	1	.....	5	.....	.....	.....	.....	blue sky	Sergt. John Robinson.
Gibraltar, Mediterranean	30.17	766.3	30.23	767.8	69.5	20.8	76	w.	.....	.....	4	.....	0	.....	.....	.....	.....	blue sky	Cpl. O. Baldwin.
Glasgow, Observatory	29.36	745.7	29.57	751.1	53.5	11.9	73	ene.	.....	.....	4	.....	10 k	.....	.....	.....	.....	d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.42	747.3	29.60	751.8	52.4	11.3	83	ese.	.....	.....	1	.....	10	.....	.....	.....	.....	showery	The Staff.
Guernsey	29.38	746.2	29.67	753.6	55.0	12.8	90	ssw.	.....	.....	1	.....	9	.....	.....	blank	blank	d. clouds	A. Collenette, F. M. S.
Kew, Observatory	29.56	750.8	29.60	751.8	53.7	12.1	86	e.	8	3.6	.....	.....	10	.....	.....	.....	.....	drizzling	The Staff.
Leicester, Museum	29.36	745.7	29.62	752.3	53.0	11.7	91	s.	.....	.....	1	.....	10	.....	.....	.....	.....	overcast	J. C. Smith.
Malta, Mediterranean	29.99	761.7	30.07	763.8	68.6	20.3	64	nw.	.....	.....	2	.....	1	.....	.....	.....	.....	blue sky	I. H. Whysall.
Nassau, Bahamas	30.10	764.5	30.15	765.8	82.2	27.9	78	sw.	.....	.....	2	.....	7	.....	.....	.....	.....	d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.04	737.6	29.56	750.8	51.0	10.6	97	se.	.....	.....	1	.....	10	.....	.....	.....	.....	raining	John Mac Email.
Oxford, Radcliffe Obs'y	29.35	745.5	29.58	751.3	51.2	10.7	97	ese.	.....	.....	2	.....	10	.....	.....	.....	.....	raining	The Staff.
Plymouth	29.48	748.8	29.56	750.8	56.0	13.3	87	ese.	.....	.....	4	.....	0	.....	.....	.....	.....	blue sky	John Merrifield.
Sandwick Manse, Orkneys	.....	.....	29.78	756.4	51.5	10.8	78	se.	19	8.5	.....	.....	10	.....	.....	.....	.....	misty	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.88	758.9	29.94	760.5	65.2	18.4	35	ne.	.....	.....	2	.....	1	.....	.....	.....	.....	misty	W. H. Lyne.
Sheffield	29.32	744 7	29.59	751.6	54.9	12.7	93	e.	.....	.....	1	.....	10	.....	.....	0.29	7.4	raining	W. F. Cooper.
Silloth Rectory	29.48	748.8	29.52	749.8	54.0	12.2	82	sse.	.....	.....	3	.....	10	.....	.....	0.445	11.3	raining	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	29.57	751.1	52.1	11.2	86	e.	10	4.5	.....	.....	10	.....	.....	.....	.....	raining	Rev. S. J. Perry.
Stratfield Turgiss	.....	.....	.....	.....	52.1	11.2	99	se.	.....	.....	1	.....	10	.....	.....	.....	.....	raining	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	29 46	748.3	29.48	748.8	60	15.6	76	s.	.....	.....	6	.....	4	.....	.....	.....	.....	d. clouds	W. Newcombe.
Valencia, Observatory	29.27	743.4	29.30	744.2	53.3	11.8	86	sse.	22	9.8	.....	.....	10	.....	.....	.....	.....	raining	The Met'g'l Office.
CANADIAN.																			
Bathurst, N. B	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.22	742.2	29.27	743.4	32	0.0	98	nw.	14	6.3	.....	.....	1C n	.....	.....	0.480	12.2	light snow	H. J. Cundall, C. E.
Chatham, N. B*	29.40	746.7	29.46	748.3	32	0.0	88	nw.	15	6.7	.....	.....	10 n	.....	nw.	0.15	3.8	cloudy	G. A. Blair.
Father Point, Quebec*	29.62	752.3	29.64	752.8	29	— 1.7	96	n.	25	11.2	.....	.....	10 n	.....	.....	0.05	1.3	light snow	J. McWilliams.
Fort Garry, Manitoba*	29.26	743.2	30.12	765.0	32	0.0	88	e.	10	4.5	.....	hz.	hz	.....	.....	0	0	hazy	James Stewart.
Halifax, N. S*	29.24	742.7	29.38	746.2	34	1.1	89	nw.	12	5.4	.....	.....	10 k	.....	.....	0.156	4.0	cloudy	A. Allison.
Kingston, Ontario*	29.66	753.4	30.01	762.2	35	1.7	69	n.	13	5.8	.....	.....	10 k	.....	n.	0	0	cloudy	A. P. Knight, M. A.
Montreal, Quebec*	29.64	752.8	29.85	758.2	36	2.2	69	nw.	14	6.3	.....	.....	10 ks	.....	n.	0.08	2.0	cloudy	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.43	747.5	30.15	765.8	33	0.6	71	n.	11	4.9	.....	0	0	.....	.....	0	0	clear	Rev. R. Mosley.
Port Dover, Ontario	29.40	746.7	30.12	765.0	35	1.7	80	n.	7	3.1	.....	0	0	.....	.....	0	0	clear	H. Morgan.
Port Stanley, Ontario	29.45	748.0	30.12	765.0	31	— 0.6	92	n.	4	1.8	.....	2 ok	0	nw.	.....	0	0	clear	M. Payne.
Quebec, Quebec*	29.39	746.5	29.73	755.1	31	— 0.6	78	n.	.....	.....	3	0	5 s	.....	n.	0.10	2.5	fair	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.60	751.8	30.08	764.0	34	1.1	68	nw.	6	2.7	.....	.....	10 ks	.....	nw.	0	0	cloudy	W. H. McIntyre.
Saugeen, Ontario*	29.41	747.0	30.16	766.1	34	1.1	78	n.	12	5.4	.....	0	0	.....	.....	0	0	clear	.....
St. Andrews, N. B	29.50	749.3	29.55	750.6	34	1.1	83	nw.	6	2.7	.....	.....	10 n	.....	.....	0.03	0.8	cloudy	.....
Sydney, C. B*	29.19	741.4	29.25	742.9	35	1.7	96	s.	6	2.7	.....	.....	10 n	.....	.....	0.09	2.3	cloudy	T. C. Hill, C. E.
Toronto, Ontario*	29.71	754.6	30.11	764.8	36	2.2	61	n.	13	5.8	.....	0	0	.....	.....	0	0	clear	Magnetic Observatory.
Yarmouth, N. S*	29.47	748.5	29.54	750.3	35	1.7	89	nw.	9	4.0	.....	.....	10 k	.....	nw.	0.06	1.5	cloudy	Lt. F. E. Wilmot, R. N.
Sub-arctics.																			
St. Johns, Newfoundland	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	John Delany.
CAPE COLONY.																			
Cape St. Francis Lt. House	30.19	766.8	30.22	767.6	66.0	18.9	73	ssw.	21.7	9.7	.....	0	1 k	.....	.....	0.030	0.8	clear	John Duthie.
Cape Town, C. G. H. Obs'y	30.12	765.0	30.16	766.1	69.3	20.7	56	s	9	4.0	.....	1	1	.....	.....	0.205	5.2	.....	The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	OBSERVERS.
Chinese (*Sub-series*).																			
Hankow	29.76	755.9	30.03	762.7	68.9	20.5	87	e.	.....	.....	3	.....	0	.....	.....	0	0	.....	N. Titoushkin.
Zi-Ka-Wei, near Shanghai.	29.96	761.0	29.99	761.7	53.6	12.0	93	e.	7.2	3.2	.....	2 cs	0	w.	.....	0	0	fair	M. Marc Dechevrens, S.J.
Danish.																			
Copenhagen	29.98	761.6	30.03	762.8	60.3	15.7	64	s.	13.	6	.....	.....	4	.....	.....	.....	.....	.....	Oversergent Fischer.
Fanöe	29.89	759.2	29.91	759.7	62.6	17.0	63	s.	.....	.....	4	.....	9	.....	.....	.....	.....	.....	Overloerer Lauridsen.
Godthaab, Greenland	30.18	766.5	30.22	767.6	27.9	— 2.3	75	calm	.....	.....	0	.....	4	.....	.....	.....	.....	.....	S. Kleinschmidt.
Stykkisholm, Iceland	29.78	756.3	29.82	757.4	29.5	— 1.4	92	ne.	.....	.....	7	.....	8	.....	.....	.....	.....	.....	A. O. Thorlacius.
Thorshavn	29.72	754.9	29.76	755.8	51.4	10.8	75	se.	9.	4	.....	.....	4	.....	.....	.....	.....	.....	Overloerer Bergh.
Vestervig	29.83	757.7	29.92	760.0	55.2	12.9	76	calm	.....	.....	0	.....	1	.....	.....	.....	.....	.....	Loearer Oesterbol.
French.																			
Agen, Normal School	29.21	742.0	29.84	757.8	68.4	20.2	55	ssw.	.....	.....	1	.....	k	.....	sw.	0	0	.....	M. Labroue, Director.
Alençon, Normal School	29.20	741.6	29.75	755.6	66.2	19	64	sw.	.....	.....	2	.....	kn	n.	n.	0	0	.....	M. Nicot, Director.
Arras, Engineer School	29.38	746.2	29.63	752.5	72.1	22.3	48	se.	.....	.....	1	ck	s	.....	.....	0	0	.....	Capt. Bertrand, Dir.
Avginon, Normal School	30.00	762.1	30.09	764.2	75.2	24	46	se.	.....	.....	1	.....	.....	.....	.....	0	0	.....	M. Giraud, Director.
Bar-sur-Seine	29.24	742.8	29.78	756.3	73.0	22.8	25	s.	.....	.....	1	.....	6	.....	.....	0	0	cloudy	M. Saillard, Director.
Beauvais, Normal School	29.46	748.2	29.71	754.7	72.5	22.5	42	sse.	.....	.....	2	.....	8	.....	.....	0	0	very cloudy	M. Frère Eugène Marl.
Besançon, Normal School	28.97	735.7	29.84	758.0	74.1	23.4	42	s.	.....	.....	1	2 c	0	sw.	.....	0	0	slightly cld'y	M. Gobin, Director.
Bordeaux, Observatory	29.58	751.3	29.84	757.8	67.6	19.8	44	w.	.....	.....	1	.....	s	.....	sw.	0	0	cloudy	M. Rayet, Director.
Bourges, Normal School	29.23	742.5	29.84	757.9	79.2	26.2	23	ssw.	.....	.....	2	.....	k	.....	ssw.	0	0	.....	M. Postel, Director.
Brest, Naval Observatory	29.43	747.5	29.67	753.7	58.6	14.8	74	sw.	.....	.....	3	.....	3	.....	sw.	0.433	11.0	.....	M. de Kermaree, Dir.
Caen, Normal School	29.59	751.5	29.66	753.3	67.6	19.8	54	ssw.	.....	.....	3	.....	8	.....	ssw.	0.012	0.3	very cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.61	752.0	29.91	759.8	79.5	26.4	33	s.	.....	.....	2	.....	2	.....	sw.	0	0	slightly cl'dy	M. Jadot, Director.
Charleville, Normal School	29.28	743.7	29.81	757.2	72.7	22.6	40	se.	.....	.....	2	.....	2	.....	e.	0	0	¼ covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.50	723.8	29.80	756.8	71.2	21.8	26	sse.	.....	.....	4	.....	8	.....	.....	0	0	¾ covered	M. Allnard, Director.
Cluny, Normal School	29.05	737.8	29.87	758.6	73.4	23	25	s.	.....	.....	6	.....	.....	sse.	.....	0	0	.....	M. de Villemontée, Dir.
Commercy, Normal School.	28.99	736.4	29.83	757.7	76.5	24.7	22	sse.	.....	.....	3	2 c	.....	sse.	sse.	0	0	slightly cl'dy	Dr. Coulet, Director.
Gap, Normal School	27.58	700.4	30.04	763.1	68.0	20	40	.....	.....	.....	.....	.....	n	.....	s.	0	0	.....	M. Jeanglrard, Director.
Gréasque, du. Rhone	28.97	735.8	30.00	763.4	72.5	22.5	35	n.	.....	.....	3	.....	3	.....	sw.	0	0	.....	M. Kina, Director.
Grenoble, Normal School	29.21	742.0	29.97	761.1	63.0	17.2	67	ssw.	.....	.....	4	.....	kn	.....	.....	0	0	.....	M. Ablard, Director.
Guéret, Normal School	28.23	717.1	29.74	755.3	72.5	22.5	26	sw.	.....	.....	4	ck	0	sw.	.....	0	0	.....	M. Rivoire, Director.
Lamballe, Normal School	29.40	746.7	29.67	753.5	59.9	15.5	54	s.	.....	.....	2	.....	8	.....	s.	0.24	6.	very cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.22	742.2	29.77	756.2	68.0	20	53	sw.	.....	.....	1	.....	10	.....	.....	0	0	covered	M. Chauvin, Director.
Lorient, Naval Observatory	29.63	752.5	29.73	755.1	58.6	14.8	86	s.	.....	.....	3	.....	8	s.	w.	0.197	5.0	¾ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.89	733.7	29.92	759.9	68.7	20.4	31	s.	.....	.....	4	0	8 n	.....	.....	0	0	¾ covered	M. André, Director.
Mans, Normal School	29.42	747.2	29.71	754.7	67.5	19.7	55	w.	.....	.....	4	.....	5	.....	w.	0	0	cloudy	M. Piboen, Director.
Marseille, Observatory	29.84	757.8	30.10	764.5	73.0	22.8	41	se.	.....	.....	3	.....	7	.....	w.	0	0	.....	M. Stephan, Director.
Montlouis l'Instituteur	24.82	630.4	29.66	753.4	56.8	13.8	47	w.	13.0	5.8	.....	.....	5	se.	.....	.....	.....	.....	M. Cave, for Dr. Fines.
Montpellier, Normal School	29.95	760.7	30.07	763.8	68.4	20.2	51	s.	.....	.....	3	.....	2	.....	.....	0	0	slightly cl'dy	M. Galzin, Director.
Nancy, Normal School	29.14	740.1	29.89	759.3	74.8	23.8	33	se.	.....	.....	2	0	0	.....	.....	0	0	clear	M. Hasse, Director
Nantes, Observatory	29.63	752.6	29.79	756.7	64.0	17.8	58	wsw.	.....	.....	1–3	.....	7 k;kn	se.	sw.	0	0	.....	M. Larocque, Director.
Perpignan, Observatory	29.81	757.2	29.92	759.9	74.1	23.4	28	sw.	20.6	9.2	.....	.....	10	.....	w.	0	0	.....	Dr. Fines, Director.
Pic-du-Midi, Summit	21.23	539 2	.....	.....	38.8	3.8	.....	sw.	.....	.....	3	.....	5	nw.	sw.	0.039	1.0	cloudy	Gen'l de Nansouty, Dir.
Privas, Normal School	28.99	736.3	30.03	762.7	68.4	20.2	36	se.	.....	.....	3	.....	5	.....	.....	0	0	cloudy	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.07	636 7	.....	.....	51.6	10.9	59	s.	.....	.....	4	.....	0	.....	.....	0	0	¾ covered	M. Allnard, Director.
Rochefort, Naval Obs'y	29.81	757.2	29.84	758.0	64.4	18.0	100	wsw.	.....	.....	1	.....	5	.....	s.	0	0	½ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.58	751.4	29.80	756.8	62.6	17	63	sw.	.....	.....	2	.....	5	.....	sw.	0	0	cloudy	M. Mouillot, Director.
Rodez, Normal School	27.79	705.9	29.89	759.1	63.3	17.4	41	e.	.....	.....	5	.....	5	.....	.....	0	0	fair	M. Serger, Director.
Rouen, Normal School	29.60	751.8	29.65	753.0	70.2	21.2	48	s.	.....	.....	1	.....	5	nw.	.....	0	0	cloudy	M. Brotier.
Saint Maur, Observatory	29.56	750.8	29.72	755.0	77.2	25.1	27	s.	.....	.....	2	.....	2	.....	sw.	0	0	.....	M. Renou, Director.
Toulouse, Observatory	29.17	740.9	29.89	759.2	69.4	20.8	37	sse.	.....	.....	6	.....	8	w.	.....	0	0	very cloudy	M. Bailland, Director.
Versailles, Observatory	29.26	743.3	29.76	755.8	73.4	23.0	33	s.	.....	.....	3	.....	.....	.....	.....	0.016	0.4	.....	Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.45	748.0	29.74	755.4	73.2	22.9	35	s.	.....	.....	3	.....	9	.....	sw.	0	0	.....	M. Marié Davy, Director
German.																			
Bamberg	29.18	741.1	30.03	762.8	68.0	20.0	30	s.	.....	.....	4	3 cs	0	sse.	.....	0	0	.....	Prof. Dr. Hoh.
Berlin	29.85	758.2	30.02	762.6	68.4	20.2	33	se.	.....	.....	1	.....	2	.....	.....	0	0	.....	Prof. Dr. Arndt.
Breslau	29.66	753.3	30.19	766.9	61.7	16.5	48	se.	.....	.....	2	.....	1	wnw.	.....	0	0	.....	Royal University Obs'y.
Carlsruhe	29.50	749.3	29.93	760.1	72.0	22.2	31	ene.	.....	.....	1	.....	1	nw.	.....	0	0	.....	Albert Senz.
Cassel	29.22	742.2	29.93	760.3	72.0	22.2	24	s.	.....	.....	4	.....	2	sw.	.....	0	0	.....	Dr. H. Möhl.
Frankfort on the Main	29.58	751.2	29.93	760.2	71.4	21.9	26	sse.	.....	.....	2	.....	2	.....	.....	0	0	.....	Physical Society.
Friedrichshafen	28.58	726.0	30.01	762.2	57.2	14.0	59	s.	.....	.....	1	.....	0	.....	.....	0	0	.....	Wilhelm, Chief Tel.
Hamburg	29.87	758.6	29.96	761.0	65.1	18.4	48	sse.	.....	.....	5	.....	4	wsw.	.....	0	0	.....	E. Preller.
Kiel	29.93	760.3	29.95	760.7	61.3	16.3	47	sse.	.....	.....	2	.....	2	.....	.....	0	0	.....	Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.65	753.0	30.00	763.4	69.3	20.7	33	se.	.....	.....	3	.....	0	.....	.....	0	0	.....	H. Leppig, Asst.
Magdeburg	29.82	757.5	30.01	762.2	69.1	20.6	31	se.	.....	.....	3	3 c	0	wsw.	.....	0	0	.....	Dr. Assmann.
Memel	30.05	763.2	30.10	764.4	47.1	8.4	82	w.	.....	.....	4	3 cs	0	.....	.....	.....	.....	.....	Issermann.
Munich	28.23	717.1	30.10	764.5	65.3	18.5	27	ne.	.....	.....	2	.....	0	.....	.....	0	0	.....	Central Station.
Neufahrwasser	30.10	764.5	30.11	764.9	66.2	19.0	26	nw.	.....	.....	2	.....	2	.....	.....	0	0	.....	A. Lothes.
Neustadt, Palatinate	29.43	747.4	29.95	760.8	68.0	20.0	45	s.	.....	.....	2	.....	2	.....	.....	0	0	.....	Dickmether.
Stuttgart	28.98	736.0	29.84	757.9	69.8	21.0	34	s.	.....	.....	1	.....	0	.....	.....	0	0	.....	Prof. Dr. Schoder.
Wustrow	30.01	762.3	30.04	763.0	67.6	19.8	90	s.	.....	.....	2	0	8 s	.....	.....	0	0	.....	Profs. Brandes & Reimer.
Greek.																			
Athens	29.58	751.2	29.96	761.0	68.5	20.3	.....	ne.	.....	.....	4.0	1 k	.....	.....	.....	0	0	.....	Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.69	754.2	29.74	755.4	89.0	31.7	53	wsw.	26.0	11.6	.....	.....	0	.....	.....	0	0	misty	
Deesa	29.19	741.4	29.65	753.0	97.7	36.5	18	w.	6.1	2.7	.....	.....	0	.....	.....	0	0	blue sky	
Bombay	29.69	754.2	29.73	755.1	83.2	28.4	62	wnw.	16.0	7.2	.....	.....	0	.....	.....	0	0	blue sky	
Poona, Yarrowda	27.83	707.0	29.04	753.0	88.2	31.2	22	w.	24.0	10.7	.....	.....	2	w.	.....	0	0	d. clouds	
Belgaum	27.20	690.8	29.68	753.9	84.8	29.3	40	sw.	10.0	4.5	.....	.....	2	se.	.....	0	0	misty	
Lahore	28.90	733.9	29.62	752.2	92.1	33.4	12	calm	1.7	0.8	.....	.....	0	.....	.....	0	0	blue sky	
Roorkee	28.72	729.6	29.59	751.6	93.2	34.0	9	sw.	3.1	1.4	.....	.....	c	.....	.....	0	0	blue sky	
Agra	29.05	737.8	29.59	751.5	98.1	36.7	9	n.	1.7	0.8	.....	.....	0	.....	.....	0	0	.....	
Nagpur	28.53	724.5	29.52	749.8	101.0	38.3	14	nw.	4.1	1.8	.....	.....	4	w.	.....	0	0	d. clouds	
Jubbulpore	28.27	718.0	29.57	751.1	97.0	36.1	12	nw.	2.3	1.0	.....	.....	3	.....	n.	0	0	d. clouds	
Lucknow	29.18	741.3	29.54	750.4	99.0	37.2	19	ssw.	4.4	2.0	.....	.....	8	ene.	.....	0.03	0.8	d. clouds	
Allahabad	29.28	743.8	29.59	751.5	89.7	32.1	33	s.	4.1	1.8	.....	.....	10	.....	.....	0	0	overcast	
Patna	29.44	747.7	29.62	752.3	89.8	32.1	45	calm	6.0	2.7	.....	.....	4	e.	e.	0	0	d. clouds	
Hazaribagh	27.62	701.4	29.59	751.6	83.8	28.8	42	sse.	8.8	3.9	.....	.....	5	nw.	se.	0	0	thunder	
Cuttack	29.59	751.6	29.67	753.7	74.5	23.6	72	sw.	5.0	2.2	.....	.....	10	.....	.....	0.98	24.9	overcast	
Calcutta, Alipore	29.66	753.2	29.68	753 8	84.8	29.3	54	ene.	6.0	2.7	.....	.....	9	.....	.....	0	0	d. clouds	
Dhubri	29.54	750.4	29.66	753.4	80.0	26.7	75	calm	1.6	0.7	.....	.....	1	.....	.....	1.22	31.0	d. clouds	
Chittagong	29.62	752.3	29.71	754.6	82.7	28.2	74	w.	3.3	1.5	.....	.....	0	.....	.....	0	0	blue sky	
Sibsagar	29.41	746.9	29.74	755.5	77.7	25.4	79	ne.	5.2	2.3	.....	.....	6	w.	w.	1.30	33.0	d. clouds	
Jeypore	28.22	716.7	29.62	752.3	93.2	34.0	11	nnw.	5.8	2.6	.....	.....	0	.....	.....	0	0	blue sky	
Zanzibar, Africa	29.90	759.4	.....	.....	83.2	28.4	71	s.	5.6	2.5	.....	.....	8	.....	sse.	0.30	7.6	gloomy	
Bellary	28.16	715.3	.....	.....	99.6	37.6	13	nnw.	5.4	2.4	.....	4 ck	0	.....	.....	0	0	d. clouds	
Trichinopoly	29.36	745.7	.....	.....	98.8	37.1	34	se.	2	0.9	.....	.....	3	.....	.....	0	0	d. clouds	
Italian.																			
Udine	29.76	755 9	30.17	766.2	64.6	18.1	68	sw.	1.3	0.6	.....	.....	1	.....	.....	0	0	.....	Prof. Giovanni Clodig.
Milan	29.64	752.9	30.15	765.9	68.9	20.5	43	n.	4.3	1.9	.....	.....	4	ne.	.....	0	0	.....	Prof. Schiaparelli.
Padua	30.06	763.5	30.17	766.3	63.9	17 7	35	sse.	0.7	0.3	.....	.....	0	.....	.....	0	0	.....	Prof. Dott. Lorenzoni.
Moncalieri	29.22	742.2	30.12	765.0	69.1	20.6	44	s.	3.8	1.7	.....	.....	6	nw.	.....	0	0	.....	Prof. P. F. Denza.
Genoa	29.97	761.1	30.15	765.9	67.3	19.6	44	sw.	3.8	1.7	.....	.....	2	.....	.....	0	0	.....	Prof. G. M. Garibaldi.
Mondovi	28.23	717.1	30.19	766.9	63.0	17.2	43	n.	.....	.....	4	.....	3	wnw.	.....	0	0	.....	Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
ITALIAN.—Continued.																			
Pesaro	30.11	764.9	30.16	766.1	59.7	15.4	47	n.	8.1	3.6			0			0	0		Prof. Luigi Guidi.
Florence	29.88	758.9	30.13	765 3	68.0	20.0	27	ne			2		0			0	0		Prof. Costantino Pitter.
Leghorn	30.00	761.9	30.08	764.0	66.9	19.4	43	nw.	6.9	3.1			1			0	0		Prof. P. Monte.
Rome	29.89	759.3	30.07	763.7	72.0	22.2	26	nw.	4.3	1.9			2			0	0		Prof. P. S. Ferrari.
Lecce	29.76	756.0	30.01	762.3	66.2	19.0	53	nnw.	19.9	8.9			3			0	0		Prof. C. de Giorgi.
Cosenza	29.17	741.0	30.06	763.4	66.6	19.2	75	wnw.	4.3	1.9			9	W.		0	0		Prof. D. Conti.
Cagliari	29.90	759.4	30.09	764.3	68.2	20.1	57	se.			4		0			0	0		Prof. A. Pacinotti.
Palermo	29.85	758.3	30.10	764.6	65.1	18.4	67	ne.	7.4	3.3			1			0	0		Prof. G. Ciacciatore.
Syracuse	29.98	761.6	30.03	762.7	67.5	19.7	70	wnw.	6.3	2.8			5	sw.		0	0		Prof. Vincenzo Guiliano.
Sub-series.																			
Naples, S. R	29.52	749.9	30.04	762.9	70.0	21.1	46	nw.	0	0			9	sse.		0	0		Prof. T. Brioschi.
Stelvio	22.28	565 8			38.1	3.4	44	sw.			1		0			0	0	clear	Prof. P. F. Denza.
Valdobbia	22.32	566.8			43.0	6.1	69	ne.			2		1			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Aomori	29.76	755.9	29.80	756.9	52.0	11.1	68	s.	21.5	9.6		0	0			0	0	clear	K. Ogawa.
Hakodate	29.73	755.1	29.75	755.6	49.0	9.4	74	wsw.	24.0	10.7			1			0.025	0.6	clear	
Hiroshima, I. M. Obs'y	29.92	759 9	29.93	760.2	58.4	14.7	76	nne.	5.7	2.5		10ck;cs	0			0	0	overcast	K. Sasaki.
Kanazawa	29.87	758.7	29.98	761.5	51.5	10.8	83	s.	3.4	1.5		0	0			0	0	clear	S. Endo.
Kioto	29.78	756.4	29.95	760.7	57.4	14.1	88	nnw.	3.1	1.4		ck	4 s			0	0	fair	M. Tojima.
Kochi	29.92	759.9	29.94	760.5	66.0	18.9	89	w.	2.5	1.1		0	0			0	0	clear	
Nagasaki, I. M. Obs'y	29.78	756.4	29.99	761.7	56.3	13.5	90	sw.	0.5	0.2		0	0			0	0	clear	S. Takehayashi.
Niigata	29.92	759.9	29.95	760.7	54.2	12.3	86	sw.	4.8	2.4		0	0			0.100	2.5	fair	
Nobiru	29.84	757.9	29.85	758.2	55.2	12.9	84	n.	5.5	2.5		0	9 sn			0.050	1.3	light rain	H. Midzushima.
Supporo					51.0	10.6	66	s.	18.0	8.0			10			0.015	0.4	covered	
Tokei Obs'y, Yeddo	29.77	756.1	29.84	757.9	62.6	17.0	95	ssw.	15.6	7.0		0	0			0.019	0.5	clear	The Staff.
Wakayama	29.88	758.9	29.93	760.2	62.3	16.8	78	ne.	2.2	1.0		0	0			0	0	clear	Y. Kuwamuea.
MAURITIUS.																			
Mauritius Observatory	29.84	757·9	30.02	762.5	78.0	25.6	77	e.	17.0	6.3		0	5 ks;n			0.01	0.3	fair	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.70	601.8	29.92	759.8	59.9	15.5	66	ese.				0	0			0	0	light fog	Vicente Fernandez.
Leon	24.41	620.0	30.05	763.3	61.2	16.2	68	nnw.			1	5 c	1 s	w.		0	0	foggy	Prof. M. Leal.
Mazatlan	29.72	754.8	29.98	761.5	62.5	16.9	54	nw.	1.6	0.8		1 cs	0			0	0	foggy	F. Quijano, C. E.
Mexico, Central Obs'y	23.12	587 2	30.19	766.8	55.2	12.9	59	calm	0	0		1 c	0			0	0	foggy	The Staff.
Morelia	24.26	616.3	30.38	771.7	60.8	16.0	70	se.			2	1	1	s.	s.	0	0	clear	M. Tena, M. D.
Pabellon, Aguascallentes	23.96	608.6	30.00	761.9	58.3	14.6	58	wsw.			1	6 c	0	sw.		0	0	½ clouded	M. V. de Leon, M. E.
Puebla, Catholic Institute	23.41	594.5	30.13	765.3	53.6	12.0	81	calm	0	0		0	0			0	0	clear	Prof. P. Spina.
San Luis Potosi	24.22	615.2	30.14	765.6	69.0	20.6	49	wsw.			1	5	0	w.		0	0	½ clouded	G. Barroeta, M. D.
Zacatecas	22.55	572.8	30.20	767.0	54.0	12.2	59	sw.	11.3	6.4		0	5 s		w.	0	0	½ clouded	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.74	755.4	29.74	755.4	61.2	16.2		se.			3					0	0		
Groningen	29.80	756.8	29.85	758.2	64.4	18.0		s.			4					0	0		
Helder	29.78	756.5	29.78	756.5	59.7	15.4		ese.			3					0.008	0.2		
Hellevoetsluis	29.75	755.7	29.75	755.7	64.8	18.2	61	se.			2					0	0		
Utrecht	29.75	755.7	29.80	756.9	65.3	18.5	50	sse.			4		8			0.067	1.7	very cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.86	758.4	29.92	760.0	53.6	12.0	67	ssw.	7	3			5			0	0		
Brono	29.82	757.3	29.85	758.3	45.3	7.5	52	ene.	9	4			1			0	0		
Christiania	29.74	755.4	29.89	759.1	59.7	15.4	42	ssw.	7	3			2			0	0		
Gjæsvær	29.94	760.5	29.97	761.1	30.2	— 1.0		sw.			2		10					snowing	
Lodingen	29.90	759.5	29.95	760.7	35.1	1.7	58	ne.			2		0						
PORTUGUESE.																			
Angra, Azores					60.4	15.8	62	n.	8.1	3.6			4			0	0		Dr. J. A. Sampaio.
Campo Major	29.13	739.8	30.12	765.1	62.6	17.0	43	ssw.	12.5	5.6			5			0.102	2.6		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.31	769.9	30.40	772 2	68.0	20.0	55	sw.					0			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.85	758.1	30.21	767.3	60.3	15.7	60	wsw.	21.7	9.7			8			0	0		The Staff.
Ponta Delgada, Azores	30.45	773.4	30.52	775.2	60.8	16.0	59	n.	11.9	5.3			4			0	0		
Saint Paul de Loando	29.72	754.0	29.93	760.1	81.7	27.6	87	wnw.	0.7	0.3			5	w.		0	0		
Serra da Estrella	25.26	641.5	30.13	765.4	34.3	1.3	100	w.	36.0	16.1			10			0.768	19.5	fog & sleet	
RUSSIAN.																			
Akmolinski	29.01	736.8	30.15	765.8	24.1	— 4.4	56	n.	7	3		0	0			0	0		Major K. Lasarew.
Archangel	29.60	751.9	29.62	752.4	29.5	— 1.4	88	n.	9	4			10			0	0		Capt. Sselliwerstow.
Astrakhan	30.26	768.7	30.18	766.6	46.4	8.0	48	se.	11	5		0	6 s			0	0	light clouds	Capt. Wisganow.
Barnaul	29.55	750.6	30.08	764.0	26.4	— 3.1	65	wnw.	9	4			10			0	0		Meteorological Obs'y.
Dorpat	29.63	752.5	29.87	758.7	53.6	12.0	75	wsw.	11	5			10 ks			0.035	0.9		Observatory.
Ekaterinburg	28.97	735.7	29.96	760.9	34.7	1.5	45	sw.	16	7			10			0	0		Meteorological Obs'y.
Kasan	29.64	752.8	29.91	759.8	41.9	5.5	59	ssw.	22	10			10			0.012	0.3		Observatory.
Kertch	29.90	759.5	29.92	760.0	49.1	9.5	87	sse.	4	2		0	8 n			0	0		Lagorio & Sastyrex.
Kieff	29.34	745.2	29.97	761.3	54.7	12.6	67	w.	4	2		c;ck	10 ks			0.043	1.1		Observatory.
Lugan	29.85	758.2	30.06	763.4	52.0	11.1	29	ese.	13	6			9			0	0		Meteorological Obs'y
Moscow	29.32	744.7	29.79	750.7	53.6	12.0	72	s.	4	2		0	7 ks			0.051	1.3		Meteorological Obs'y.
Nikolaiev	30.01	762.2	30.08	764.0	64.4	18.0	40	calm	0	0		0	0			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor	29.85	758.3	29.94	760.5	29.5	— 1.4	62	calm	0	0			0			0	0		Lieut. Iwanow.
Pekin, China	29.75	755.6	29.89	759.2	69.3	20.7	34	calm	0	0		0	2 k			0	0		Observatory.
St. Petersburg	29.80	757.0	29.82	757.4	42.1	5.6	62	wnw.	18	8		cs	4 k			0	0		Physical Observatory
Ssemipalatinsk	28.67?	728.2?	29.34?	745.2?	30.6	— 0.8	63	calm	0	0			10			inap.	inap.	heavy cl'ds.	Central Physical Obs'y
Tashkend, Laboratory	28.41	721.6	29.95	760.8	63.7	17.6	68	wnw.	9	4			10			blank	blank	heavy cl'ds.	Major Lasaren.
Tiflis	28.63	727.1	30.06	763.6	49.8	9.9	56	nw.	2	1			10			0.484	12.3		Teich, A. M.
Vladivostok	29.67	753.5	29.73	755.2	43.2	6.2	96	calm	0	0			10 n			0.075	1.9		Physical Observatory
Warsaw	29.52	749.8	29.94	760.4	61.2	16.2	44	nnw.	7	3		6 c	0						
Wilna	29.60	751.9	30.02	762.4	59.5	15.3	54	w.	4	2			5			0	0		Astronomical Obs'y
Yeniseisk	29.54	750.2	29.83	757.7	31.1	— 0.5	74	sw.	20	9			8			0.008	0.2		Berg, Assistant.
SPANISH.																		sleeting	M. O. Marks.
Barcelona, Met. Obs'y	29.93	760.2	30.03	762.8	68.4	20.2	57	se.	2.9	1.3		3 c;ck	0			0	0		Antonio Rave, Director.
Bilbao, Met. Obs'y	29.85	758.2	29.91	759.7	68.4	20.2	58	nw.	3.6	1.6		3	6	sw.		0	0	almost cov'd	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.02	686.2	29.95	760.7	59.0	15.0	51	sw.	9.4	4.2			2			0	0	lightly cl'dy	Domingo Martin.
Madrid, Royal Obs'y	27.78	705.6	29.97	761.5	62.6	17.0	56	sw.	32.9	14.7		0	4			0	0	cloudy	The Staff.
Murcia, Met. Obs'y	29.82	757 5	29.97	761.2	79.5	26.4	44	ese.	3.6	1.6		1	3	ene.		0	0	clouds	Olayo Diaz, Director.
Santiago, Met. Obs'y	28.95	735.2	29.85	758.1	54.5	12.5	75	sw.	40.9	18.3			10			0.504	12.8	raining	R. Gil Vallanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I.	29.99	761.6	30.05	763.3	77.6	25.3	80	sse.	7.2	3.2		0	0			0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.80	757.0	29.86	758.4	83.8	28.8	81	sw.	6.8	3.0		2 c	4 ck		e.	0	0	fair	F. Faura, S. J.
San Fernando, Naval Obs'y	30.14	765.5	30.24	768.0	64.8	18.2	71	w.	3.7	1.7			10		w.	0.006	0.2		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	30.06	763.6	30.15	765.9	77.7	25.4	87	calm	0	0		2 c	2 k	sc.	s.	0	0		Manuel Maeu.
Tuguegarao, Philippine Id's	29.77	756.1	29.90	759.4	74.0	23.3	90	nw.	6.0	2.7			10 kn		nnw.	0.09	2.3	covered	José L. Yrastorza.
SWEDISH																			
Haparanda	29.90	759.4	29.94	760.4	37.0	2.8	72	n.			2		10			0	0		
Umea	29.93	760.2	29.98	761.5	38.5	3.6	63	s.			2		10			0	0		
Hernosand	29.89	759.3	29.95	760.6	41.9	5.5	65	se.			2		7			0	0		
Stockholm	29.73	755.2	29.91	759.7	54.9	12.7	51	w.			4		4			0	0		
Wisby	29.86	758.5	29.92	760.0	51.8	11.0	65	w.			4		5			0	0		
Sub-series.																			
Upsala	29.79	756.7	29.88	758.9	53.1	11.7	64	n.	6.7	3.0			6	wnw.	w.	0	0		S. G. Fineman.
SWISS.																			
Geneva	28.58	725.9	30.00	761.9	57.6	14.2	49	n.			3					0	0	clear	The Observatory

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Turkish.																			
Constantinople	.....	.....	30.00	762.1	57.9	14.4	49	n.	17	7.5	.....	.....	1	.....	ne.	0	0	.....	The Observatory.
Valona	.....	.....	30.04	763.1	69.1	20.6	.....	sw.	.....	.....	1	.....	5	.....	.....	0	0	cloudy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	29.74	755.5	71.8	22.1	73	sw.	.....	.....	4	0	1 8	.....	sw.	0	0	.....	Prof. C. V. A. van Dyck.
United States.																			
Albany, New York	29.84	757.9	29.92	760.0	44	6.7	60	nw.	9	4.0	.....	0	4 ks	.....	.....	0.01	0.3	fair	J. O. Barnes.
Alpena, Michigan	29.53	750.0	30.22	767.6	35	1.7	69	ne.	6	2.7	.....	0	0	.....	.....	0	0	clear.....	Jas. J. Fitzgerald.
Atlanta, Georgia	28.78	731.0	29.97	761.2	63.5	17.5	93	ne.	5	2.2	.....	.....	10 8	.....	calm	0.05	1.3	cloudy.....	H. Hall.
Atlantic City, New Jersey	30.00	762.0	30.01	762.2	41.5	5.3	61	nw.	9	4.0	.....	0	0	.....	.....	0	0	clear	Jas. M. Watson.
Augusta, Georgia	29.81	757.2	30.00	762.0	63	17.2	73	sw.	2	0.9	.....	.....	10 8	.....	sw.	0	0	cloudy	John Healy.
Baltimore, Maryland	30.05	763.3	30.10	764.5	45	7.2	53	nw.	4	1.8	.....	2 k	0	w.	.....	0	0	clear.....	Robert Seyboth.
Barnegat, New Jersey	29.98	761.5	30.00	762.0	44.7	7.1	44	nw.	10	4 5	.....	0	1 8	.....	.....	0	0	clear.....	Chas. F. Merritt.
Bismarck, Dakota	28.15	715.0	30.02	762.5	35	1.7	82	e.	6	2.7	.....	10 cs	0	.....	.....	0.52	13.2	cloudy.....	Cyrus Cramer.
Boise City, Idaho	26.96	684.8	29.80	756.9	44	6.7	76	e.	12	5.4	.....	.....	10 8	.....	calm	0	0	cloudy.....	B. E. Light.
Boston, Massachusetts	29.65	753.1	29.81	757.2	42.0	5.6	53	w.	16	7.2	.....	0	1 8	.....	.....	Inap.	Inap.	clear.....	O. B. Cole.
Brownsville, Texas	29.72	754.9	29.77	756.1	77	25.0	85	nw.	4	1.8	.....	.....	10 8	.....	nw.	0	0	cloudy.....	J. C. Galloway.
Buffalo, New York	29.33	745.0	30.10	764.5	36	2.2	66	nw.	10	4.5	.....	0	0	.....	.....	Inap.	Inap.	clear.....	Wm. Finn.
Burlington, Vermont	29.56	750.8	29.86	758.4	38.0	3.3	72	nw.	11	4.9	.....	5 cs	5 8	n.	nw.	0.06	1.5	cloudy.....	G. C. Schaeffer.
Cairo, Illinois	29.28	743.7	29.69	754.1	69.1	20.6	75	sw.	8	3.6	.....	.....	10 8	.....	sw.	0.05	1.3	threatening..	W. H. Ray.
Campo, California	27.48	698.0	30.06	763.5	32	0.0	88	s.	3	1.3	.....	0	0	.....	.....	0	0	clear.....	W. H. Clendenon.
Camp Thomas, Arizona	27.28	692.9	30.00	762.0	33	0.6	60	se.	.....	.....	1	0	0	.....	.....	0	0	clear.....	J. T. Fitzgerald.
Cape Henry, Virginia	30.05	763.3	30.07	763.8	52	11.1	52	ne.	18	8.0	.....	0	0	.....	.....	0	0	clear.....	J. E. Lanouette.
Cape May, New Jersey	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. Bolten.
Cedar Keys, Florida	29.99	761.7	30.01	762.2	75	23.9	85	se.	7	3.1	.....	.....	10 8	.....	s.	0	0	cloudy.....	F. W. Mixer.
Champaign, Illinois	28.93	734.8	29.77	756.1	45.7	7.6	89	e.	16	7.2	.....	.....	10 n	.....	s.	0.49	12.4	light rain....	L. A. Welsh.
Charleston, S. Carolina	29.97	761.2	30.03	762.7	69	20.6	90	sw.	8	3.6	.....	.....	10 8	.....	sw.	0	0	threatening.	J. H. Smith.
Charlotte, N. Carolina	29.10	739.1	29.96	761.0	59.0	15.0	65	sw.	4	1.8	.....	10 cs	sk.	.....	.....	0	0	cloudy	D. O. Donoghue.
Chattanooga, Tennessee	29.08	738.6	29.90	759.4	63.0	17.2	93	s.	3	1.3	.....	.....	10 n	.....	sw.	0.64	16.3	light rain....	B. L. Goulding.
Cheyenne, Wyoming	23.88	606.5	29.88	758.9	28.1	— 2.2	61	n.	24	10.7	.....	0	0	.....	.....	0	0	clear.....	E. McGovern.
Chicago, Illinois	29.21	741.9	29.94	760.5	43.5	6.4	72	e.	11	4.9	.....	.....	10 n	.....	ne.	0.02	0.5	light rain	J. Mitchell.
Chincoteague, Virginia	30.04	763.0	30.06	763.5	46	7.8	53	nw.	14	5.4	.....	0	hz.	.....	.....	0	0	clear..	V. P. Temple.
Cincinnati, Ohio	29.30	744.2	29.97	761.2	50.3	10.2	52	se.	10	4.5	.....	.....	10 ks	.....	s.	0	0	threatening.	R. B. Watkins.
Cleveland, Ohio	29.37	746.0	30.13	765.3	37.5	3.1	72	e.	2	0.9	.....	1 c	0	nw.	.....	0	0	clear.....	J. B. Newlin.
Coleman City, Texas	28.08	713.2	29.90	759.4	50	10.0	54	nw.	21	9.4	.....	0	0	.....	.....	0	0	clear.....	L. Dorman.
Columbus, Ohio	29.14	740.1	30.01	762.2	44	6.7	45	e.	10	4.5	.....	.....	10 8	.....	s.	0	0	cloudy.....	D. Cuthbertson.
Concho, Texas	28.04	712.2	29.98	761.5	58	14.4	44	w.	18	8.0	.....	0	0	.....	.....	0	0	clear.....	W. W. McConihe.
Davenport, Iowa	29.13	739.9	29.80	756.9	47	8.3	68	e.	14	6.3	.....	.....	10 n	.....	e.	0.01	0.3	light rain....	R. R. Martin.
Dayton, Washington T'y	27.88	708.1	29.63	752.6	49.3	9.6	70	s.	9	4.0	.....	.....	10 n	.....	sw	0.22	5.6	light rain....	H. Clifford.
Deadwood, Dakota	25.25	641.3	29.94	760.5	29	— 1.7	92	calm	0	0	.....	.....	10 n	.....	.....	1.49	37.8	light snow..	G. W. Scott.
Decatur, Texas	.....	.....	.....	.....	62	16.7	50	nw.	18	8.0	.....	0	0	.....	.....	0.09	2.3	clear.....	D. J. Carr.
Delaware Breakwater, Del.	30.05	763.3	30.07	763.8	45	7.2	68	nw.	22	9.8	.....	0	0	.....	.....	0	0	clear.....	A. Schneider.
Denison, Texas	28.88	733.5	29.68	753.9	54.0	12.2	74	nw.	13	5.8	.....	0	0	.....	.....	0.47	11.9	clear	J. McGlone.
Denver, Colorado	24.60	624.8	29.85	758.4	33.0	0.6	65	sw.	1	0.4	.....	0	1 8	.....	calm	0.04	1.0	clear.....	F. M. Neal.
Des Moines, Iowa	28.73	729.7	29.66	753.4	43	6.1	83	se.	10	4.5	.....	3 c	7 8	w.	se.	0.24	6.1	cloudy	F. W. Conrad.
Detroit, Michigan	29.39	746.5	30.12	765.0	42.8	6.0	74	ne.	9	4.0	.....	.....	10 8	.....	calm	0	0	cloudy.....	O. F. R. Wappenhans.
Dodge City, Kansas	27.13	689.1	29.77	756.1	37	2.8	72	nw.	26	11.6	.....	0	0	.....	.....	0.02	0.5	clear.....	E. A. Thomas.
Dubuque, Iowa	29.13	739.9	29.86	758.4	43.8	6.6	68	e.	12	5.4	.....	.....	10 n	.....	ne.	Inap.	Inap.	light rain....	J. Harvey Smith.
Duluth, Minnesota	29.42	747.3	30.14	765.5	35	1.7	69	ne.	12	5.4	.....	.....	10 8	.....	ne.	0	0	cloudy.....	N. B. Conger.
Eagle Pass, Texas	29.07	738.4	29.88	758.9	67.2	19.6	20	nw.	23	10.3	.....	0	0	.....	.....	0	0	clear.....	F. Belford.
Eagle Rock, Idaho	25.27	641.8	29.99	761.7	34	1.1	82	n.	4	1.8	.....	.....	10 8	.....	sw.	0	0	cloudy	J. M. Clifford.
Eastport, Maine	29.48	748.8	29.55	750.6	33.5	0.8	83	nw.	16	7.2	.....	.....	10 8	.....	nw.	0.09	2.3	cloudy.....	J. H. Melton.
El Paso, Texas	26.25	666.7	29.99	761.7	46	7.8	37	nw.	10	4.5	.....	0	0	.....	.....	0	0	clear.....	J. F. Marshall.
Erie, Pennsylvania	29.36	745.7	30.11	764.8	39	3.9	73	n.	8	3.6	.....	0	0	.....	.....	0	0	clear.....	R. H. Paxton.
Escanaba, Michigan	29.51	749.5	30.20	767.1	36	2.2	69	ne.	9	4.0	.....	3 cs	0	w.	.....	0	0	clear.....	C. Dill.
Florence, Arizona	28.53	724.6	30.03	762.7	24.5	— 4.2	35	sw.	2	0.9	.....	0	0	.....	.....	0	0	clear.....	R. R. Herman.
Fort Apache, Arizona	25.02	635.5	29.94	760.5	22	— 5.6	53	ne.	3	1.3	.....	0	0	.....	.....	0.02	0.5	clear.....	W. C. Barnes.
Fort Assinnaboine, Montana	26.93	684.0	29.83	757.7	41	5.0	43	ne.	3	1.3	.....	0	9 8	.....	sw.	0	0	cloudy.....	B. O. Lenoir.
Fort Bennett, Dakota	28.31	719.1	29.95	760.7	38	3.3	92	ne.	10	4.5	.....	.....	10 8	.....	.....	0.44	11.2	cloudy.....	T. Gibson.
Fort Benton, Montana	26.97	685.0	29.83	757.7	33	0.6	71	calm	0	0	.....	4 c	0	calm	.....	0	0	fair.....	S. Wheaton.
Fort Buford, Dakota	28.02	711.7	30.09	764.3	36	2.2	82	ne.	4	1.8	.....	.....	10 8	.....	calm	0.06	1.5	cloudy	A. H. Bell.
Fort Custer, Montana	26.73	678.9	29.91	759.7	27	— 2.8	88	se.	5	2.2	.....	0	2 8	.....	calm	0	0	clear.....	V. Verge.
Fort Davis, Texas	25.09	637.3	29.88	758.9	43	6.1	37	calm	0	0	.....	0	0	.....	.....	0	0	clear.....	J. Williams.
Fort Elliott, Texas	27.04	686.8	29.82	757.4	42	5.6	46	nw.	28	12.5	.....	0	0	.....	.....	0	0	clear.....	W. J. Cundall.
Fort Gibson, Indian T'y	28.99	736.3	29.57	751.1	56.5	13.6	86	nw.	12	5.4	.....	.....	10 8	.....	sw.	0.43	10.9	cloudy.....	J. B. Campbell.
Fort Grant, Arizona	25.25	641.3	29.98	761.5	36	2.2	53	calm	0	0	.....	0	0	.....	.....	0	0	clear.....	T. J. Macgowan.
Fort Keogh, Montana	27.46	697.5	30.00	762.0	26	— 3.3	76	ne.	6	2.7	.....	1 cs	0	.....	.....	0	0	clear.....	W. B. Stockman.
Fort Macon, North Carolina	30.03	762.7	30.04	763.0	59	15.0	70	ne.	20	8.9	.....	6 cs	0	calm	.....	0	0	fair	L. Leonardy.
Fort McKavett, Texas	27.70	703.6	29.96	761.0	51	10.6	86	nw.	12	5.4	.....	0	0	.....	.....	0	0	clear.....	J. E. Thatcher.
Fort Missoula, Montana	26.48	672.6	29.79	756.7	41	5.0	92	sw.	1	0.4	.....	.....	10 8	.....	.....	0	0	cloudy.....	J. H. Jones.
Fort St. Michaels, Alaska	29.68	753.9	29.72	754.9	11	—11.7	100	nw.	10	4.5	.....	0	8 8	.....	n.	0.04	1.0	fair.....	A. P. Leavitt.
Fort Shaw, Montana	26.12	663.4	29.79	756.7	39	3.9	70	s.	10	4.5	.....	2 cs	0	.....	.....	0	0	clear.....	A. L. Mathews.
Fort Sill, Indian Territory	28.53	724.6	29.77	756.1	48.5	9.2	51	nw.	12	5.4	.....	0	0	.....	.....	0	0	clear.....	T. Cleary.
Fort Stevenson, Dakota	28.13	714.5	30.03	762.7	33	0.6	88	ne.	4	1.8	.....	10 cs	0	.....	.....	1.41	35.8	cloudy.....	W. Burrows
Fort Verde, Arizona	.....	.....	.....	.....	33	0.6	45	ne.	.....	.....	1	0	0	.....	.....	0	0	clear.....	D. Brooks.
Fort Washakie, Wyoming	24.35	618.5	.....	.....	23.2	— 4.9	88	w.	5	2.2	.....	0	0	.....	.....	0.01	0.3	clear.....	T. M. Ambler.
Fredericksburg, Texas	28.08	713.2	29.80	756.9	59	15.0	60	n.	12	5.4	.....	0	0	.....	.....	0.18	4.6	clear.....	H. S. Miles.
Galveston, Texas	29.67	753.6	29.71	754.6	76	24.4	91	sw.	8	3.6	.....	.....	10 n	.....	sw.	Inap.	Inap.	light rain....	E. O'C. MacInernev.
Grand Haven, Michigan	29.39	746.5	30.08	764.0	40.0	4.4	57	ne.	16	7.2	.....	.....	10 8	.....	.....	0	0	cloudy.....	W. A. Reid.
Hatteras, North Carolina	30.04	763.0	30.06	763.5	58	14.4	54	ne.	25	11.2	.....	hz.	0	.....	.....	0	0	clear.....	R. M. Crawford.
Helena, Montana	25.69	652.5	29.95	760.7	36	2.2	58	w.	4	1.8	.....	10 k	0	.....	.....	0	0	cloudy.....	N. C. Smith.
Henrietta, Texas	28.83	732.3	29.86	758.4	51.0	10.6	86	nw.	16	7.2	.....	0	0	.....	.....	0	0	clear.....	J. W. Byram.
Huron, Dakota	28.40	721.3	29.85	758.2	35.3	1.8	92	ne.	23	10.3	.....	.....	10 n	.....	.....	1.30	33.0	light rain....	S. W. Glenn.
Indianapolis, Indiana	29.05	737.9	29.87	758.7	43	6.1	83	e.	9	4.0	.....	.....	10 n	.....	se.	0.29	7.4	light rain....	O. Schutze
Indianola, Texas	29.76	754.4	29.73	755.1	74.9	23.8	97	w.	9	4.0	.....	0	8 ks	.....	w.	0.02	0.5	cloudy	I. A. Reed.
Jacksboro, Texas	28.65	727.7	29.83	757.7	51	10.6	59	n.	19	8.5	.....	0	0	.....	.....	0.31	7.9	clear.....	J. P. Sherry.
Jacksonville, Florida	29.99	761.7	30.03	762.7	74	23.3	81	se.	8	3.6	.....	5 cs	0	.....	.....	0	0	fair.....	J. W. Smith.
Keokuk, Iowa	28.95	735 3	29.62	752.3	46.5	8.1	88	e.	19	8.5	.....	.....	10 8	.....	e.	0.53	13.5	cloudy.....	F. Z. Gosewisch
Key West, Florida	30.03	762.7	30.05	763.3	80.0	26.7	79	s.	16	7.2	.....	0	0	.....	.....	0	0	clear.....	L. M. Melbourne.
Kittyhawk, North Carolina	30.06	763.5	30.08	764.0	53	11.7	61	ne.	15	6.7	.....	3 c	0	.....	.....	0	0	clear.....	E. A. Beals.
Knoxville, Tennessee	28.94	735.1	29.98	761.5	63	17.2	90	s.	18	8.0	.....	.....	10 n	.....	.....	0.09	2.3	light rain....	J. A. Cody.
La Crosse, Wisconsin	29.12	739.6	29.92	760.0	42	5.6	65	ne.	8	3.6	.....	.....	10 n	.....	.....	Inap.	Inap.	light rain....	S. C. Emery.
La Mesilla, New Mexico	26.08	662.4	29.96	761.0	33.7	0.9	53	w.	1	0.4	.....	0	0	.....	.....	0	0	clear.....	N. D. Lane.
Leavenworth, Kansas	28.62	726.9	29.54	750.3	54	12.2	86	calm	0	0	.....	.....	10 8	.....	se.	0.79	20.1	cloudy.....	A. W. Browne.
Lewiston, Idaho	28.86	733.0	29.71	754.6	46	7.8	76	ne.	2	0.9	.....	.....	10 8	.....	.....	0.02	0.5	cloudy.....	W. Blake.
Little Rock, Arkansas	29.28	743.7	29.60	751.8	69	20.6	90	se.	2	0.9	.....	.....	10 8	.....	calm	0.07	1.8	cloudy	W. U. Simmons.
Los Angeles, California	29.72	754.9	30.12	765.0	45.3	7.4	76	sw.	8	3.6	.....	0	0	.....	.....	0	0	clear.....	E. F. Kubel.
Louisville, Kentucky	29.23	742.4	29.80	756.9	50	10.0	71	ne.	9	4.0	.....	.....	10 8	.....	.....	0.11	2.8	cloudy.....	H. C. Smyth.
Lynchburg, Virginia	29.37	746.0	30.08	764.0	49	9.4	63	calm	0	0	.....	hz.	0	.....	.....	0	0	clear.....	W. R. Bushby.
Madison, Wisconsin	28.94	735.1	29.98	761 5	40	4.4	89	e.	13	5.8	.....	.....	10 n	.....	calm	0.03	0.8	light rain....	O. A. Shaw.
Marquette, Michigan	29.50	749.3	30.25	768.3	36	2.2	61	ne.	4	1.8	.....	0	0	.....	.....	0	0	clear.....	J. Gilligan.
Mason, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	P. M. Wilson.
Memphis, Tennessee	29.36	745.7	29.70	754.4	69	20.6	76	se.	7	3.1	.....	10 cs	hz.	sw.	.....	0	0	cloudy.....	D. T. Flannery.
Milwaukee, Wisconsin	29.27	743.4	30.04	763.0	40	4.4	89	e.	21	9.4	.....	0	9 8	.....	ne.	0.03	0.8	threatening.	W. Line.
Mobile, Alabama	29.80	756.9	29.84	757.9	74	23.3	90	s.	8	3.6	.....	4 k	0	sw.	.....	0	0	fair.....	J. D. Paxton.

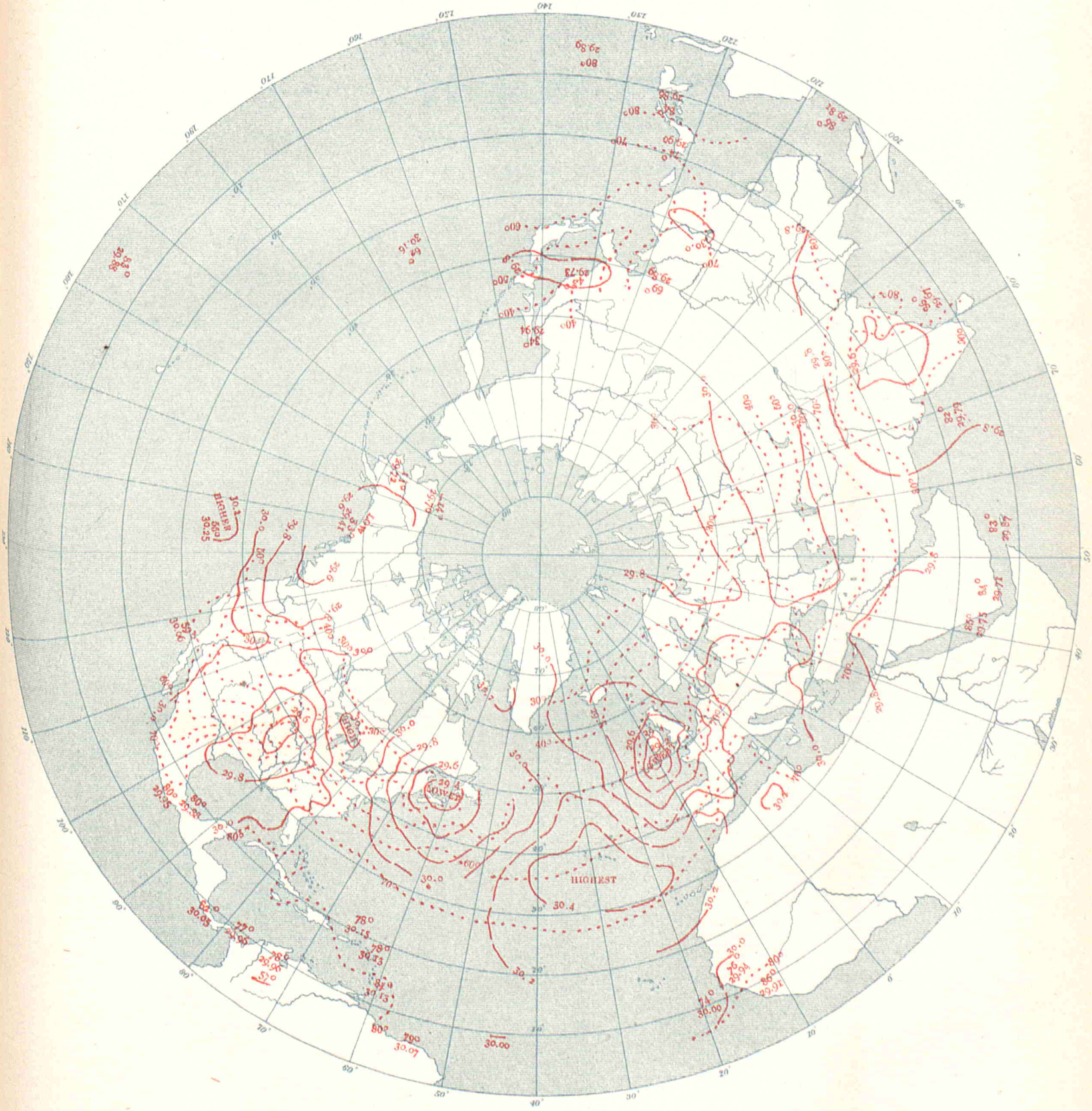
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
UNITED STATES.—Cont'd.																			
Montgomery, Alabama	29.65	753.1	29.87	758.7	71.2	21.8	87	se.	5	2.2		4 k	5 s	w.	w.	0	0	cloudy	J. B. McLaughlin.
Moorhead, Minnesota	29.00	736.6	30.03	762.7	35	1.7	89	e.	4	1.8			10 s			inap.	inap.	cloudy	H. Bessant.
Morgantown, W. Virginia	29.05	737.9	30.09	764.3	48.0	8.9	86	nw.	4	1.8			10 s		w.	inap.	inap.	cloudy	G. C. Lewis.
Mt. Washington, N. H.	23.17	588.5	29.58	751.3	10.5	—11.9	96	nw.	84	37.6			10n;fg		nw.	0.99	25.1	light snow	J. G. Linsley.
Nashville, Tennessee	29.25	742.9	29.79	756.7	64.0	17.8	84	se.	4	1.8			10 ks		w.	0.08	2.0	cloudy	L. A. Jesunofsky.
New Haven, Connecticut	29.78	756.4	29.90	759.4	41	5.0	48	nw.	13	5.8		0	3 k		nw.	0	0	clear	J. H. Sherman.
New London, Connecticut	29.83	757.7	29.88	758.9	43	6.1	68	nw.	15	6.7		2 k	0	nw.		0	0	clear	J. G. Lynch.
New Orleans, Louisiana	29.73	755.1	29.79	756.7	77.2	25.1	85	s.	14	6.3		6 cs	0	w.		0	0	clear	S. Dunne.
Newport, Rhode Island	29.78	756.4	29.82	757.4	42.7	5.9	61	w.	19	8.5		2 k	0	nw.		0.01	0.3	fair	W. McGillivray.
New River, N. Carolina					60	15.6	65	ne.			1	3 cs	4 s			0	0	clear	C. C. Corbin.
New Shoreham, Rhode I'd	29.83	757.7	29.86	758.4	42.2	5.7	57	nw.	19	8.5		0	0			0.01	0.3	fair	W. Davis.
New York, New York	29.82	757.4	30.00	762.0	42.5	5.8	53	nw.	12	5.4		6 cs	0	nw.		0	0	clear	E. B. Garriott.
Norfolk, Virginia	30.03	762.7	30.06	763.5	56	13.3	51	e.	7	3.1		4 cs	0	w.		0	0	fair	J. F. Elker.
North Platte, Nebraska	26.82	681.2	29.78	756.4	35.6	2.0	89	nw.	24	10.7			10 n			0.03	c.8	light snow	E. F. Brady.
Olympia, Washington T'y	29.67	753.6	29.71	754.6	41.0	5.0	92	sw.	2	0.9		0	8 s		calm	1.24	31.5	cloudy	J. Dascomb.
Omaha, Nebraska	28.42	721.9	29.63	752.6	48.2	9.0	93	ne.	8	3.6			10 s			0.02	0.5	cloudy	A. Pollak.
Ooglaamie, Pt. Barrow, Alas.	29.68	753.9	29.70	754.4	—14.2	—25.7	84	w.	12	5.4			10 s			0	0	cloudy	P. H. Ray.
Oswego, New York	29.68	753 9	30.02	762.5	37.2	2.9	70	nw	14	6.3		0	7 s		nw.	inap.	inap.	fair	S. W. Beall.
Palestine, Texas	29.10	739.1	29.66	753.4	63.0	17.2	78	w.	16	7.2		0	3 s		w.	0.49	12.4	clear	L. M. Pindell.
Pensacola, Florida	29.84	757.9	29.87	758.7	74.7	23.7	94	s.	12	5.4		0	7 s		sw.	0	0	fair	M. McGauran,
Philadelphia, Pa	29.94	760.5	30.04	763.0	45	7.2	53	w.	8	3.6		0	0			0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	17.44	443.0	29.72	754.9	— 2.5	—19.2	89	nw.	12	5.4		0	1 s			0.15	3.8	clear	L. M. Dey.
Ploche, Nevada	24.00	609.6	30.00	762.0	29	— 1.7	70	s.	1	0.4		10 cs	0	w.		0	0	cloudy	C. N. Kitchel.
Pittsburg, Pennsylvania	29.25	742.9	30.08	764.0	38.8	3.8	70	n.	2	0.9		4 k	0	sw.		inap.	inap.	fair	J. H. Bryce.
Port Eads, Louisiana	29.83	757.7	29.84	757.9	75.6	24.2	89	s.	32	14.3		0	5 s		s.	0	0	fair	H. G. Christian.
Port Huron, Michigan	29.44	747.8	30.14	765.5	37.6	3.1	77	ne.	6	2.7		6 c	0			0	0	fair	W. O. Bailey.
Portland, Maine	29.65	753.1	29.70	754.4	44.0	6.7	60	nw.	9	4.0		0	8 s		nw.	0.14	3.6	cloudy	D. C. Murphy.
Portland, Oregon	29.66	753.4	29.73	755.1	46.0	7.8	83	calm	0	0			10 s		w.	1.08	27.4	cloudy	M. L. Hearne.
Portsmouth, N. Carolina					61	16.1	67	ne.	20	8.9		hz.	0	calm		0	0	clear	F. P. Chaffee.
Prescott, Arizona	24.77	629.1	29.99	761.7	27	— 2.8	61	n.	5	2.2		0	0			0	0	clear	J. Mc N. Wright.
Provincetown, Mass.	29.74	755.4	29.77	756.1	42	5.6	73	nw.	18	8.0		3 k	2 s	w.		inap.	inap.	fair	P. T. Jenkins.
Punta Rassa, Florida	30.00	762.0	30.01	762.2	79	26.1	82	se.	20	8.9		0	9 ks		se.	0	0	cloudy	W. J. Evans.
Red Bluff, California	29.57	751.1	29.94	760.5	52.0	11.1	80	s.	14	6.3			10 n		sw.	0.03	0.8	light rain	J. M. Frantz.
Rio Grande City, Texas	29.55	750.6	29.79	756.7	76	24.4	24	n.	12	5.4		4 c	0	calm		0	0	fair	W. H. Taylor.
Rochester, New York	29.37	746.0	30.06	763.5	37	2.8	72	n.	9	4.0		1 ck	0	n.		0	0	clear	A. T. Sherwood.
Roseburg, Oregon	29.26	743.2	29.82	757.4	43	6.1	93	sw.	4	1.8			10 n			0.77	19.6	heavy rain	J. J. Nanry.
Sacramento, California	30.00	762.0	30.08	764.0	51.6	10.9	80	s.	13	5.8			10 s			inap.	inap.	cloudy	J. A. Barwick.
St. Louis, Missouri	29.05	737.9	29.66	753.4	53.0	11.7	93	ne.	9	4.0		7 c	0	sw.		0.21	5.3	fair	J. H. Webber.
St. Paul, Minnesota	29.00	736.6	29.89	759.2	39.0	3.9	82	ne.	18	8.0			10 n		ne.	0.03	0.8	light rain	P. F. Lyons.
St. Vincent, Minnesota	29.19	741 4	30.10	764.5	34	1.1	72	e.	6	2.7			9 k;s		sw;c	0	0	cloudy	G. Kingsbury.
Salt Lake City, Utah	25.66	651.8	30.04	763.0	33	0.6	54	calm	0	0		6 k	0	w.		0.03	0.8	clear	J. Craig.
San Antonio, Texas	29.10	739 1	29.80	756.9	64.6	18.1	30	nw.	5	2.2		0	0			0	0	clear	E. Lane.
San Diego, California	30.02	762.5	30.09	764.3	46.4	8.0	76	n.	3	1.3		0	0			0	0	clear	A. C. Dobbins.
Sandusky, Ohio	29.40	746.7	30.10	764.5	44	6.7	60	e.	18	8.0		0	5 s		e.	0	0	fair	M. H. Perry.
Sandy Hook, New Jersey	29.96	761.0	30.00	762.0	44.0	6.7	68	nw.	19	8.5		5 k	0	nw.		0	0	fair	B. A. Blundon.
San Francisco, California	30.05	763 3	30.12	765.0	51	10.6	90	sw.	6	2.7			10 s		sw.	inap.	inap.	threatening	N. Gorom.
Santa Fé, New Mexico	23.10	586.7	29.86	758.4	28.5	— 1.9	79	nw.	13	5.8		0	0			0.09	2.3	clear	H. U. Jones.
Savannah, Georgia	29.91	759.7	30.00	762.0	70.5	21.4	83	s.	8	3.6			10 ks		s.	0	0	cloudy	H. W. Ford.
Shreveport, Louisiana	29.37	746.0	29.61	752.1	65	18.3	93	s.	20	8.9			10 n		s.	0.69	17.5	thnd'r str'm	E. N. Meekins.
Silver City, New Mexico	24.22	615.2	29.90	759.4	28	— 2.2	51	nw.	6	2.7		0	0			0	0	clear	J. B. Wallace.
Sitka, Alaska	29.34	745.2	29.41	747.0	32.5	0.3	76	nw.	4	1.8			10 ks		nw.	0.13	3.3	cloudy	J. J. McLean.
Smithville, North Carolina	30.00	762.0	30.04	763.0	66	18.9	90	w.	5	2.2		0	3 s		calm	0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	27.68	701.8	29.69	754.1	41	5.0	100	se.	10	4.5			10 n			0.43	10.9	heavy rain	D. Moore.
Springfield, Illinois	29.01	736.8	29.71	754.6	50	10.0	77	e.	14	6.3		2 c	5 s	sw.	sw.	0.62	15.7	fair	T. B. Jennings.
Springfield, Massachusetts	29.74	755.4	29.87	758.7	44.4	6.9	51	nw.	12	5.4		3 k	0	nw.		0	0	clear	T. S. Outram.
Springfield, Mo.	28.14	714.7	29.66	753.4	56	13.3	86	e.	13	5.8		0	8 n		e.	1.03	26.2	light rain	J. B. Marbury.
Stockton, Texas	26.97	685.0	30.00	762.0	44.0	6.7	34	w.	6	2.7		0	0			0	0	clear	J. O'Dowd.
Thatcher's Island, Mass.	29.67	753.6	29.72	754.9	40.2	4.6	73	nw.	21	9.4		4 k	0	nw.		0.02	0.5	fair	G. Liebmann.
Toledo, Ohio	29.37	746 0	30.08	764.0	44.5	6.9	48	e.	11	4.9		7 cs	0			0	0	fair	A. Buell.
Tucson, Arizona	27.61	701.3	30.00	762.0	38	3.3	48	se.	3	1.3		0	0			0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.31	744.5	29.68	753.9	46	7.8	93	w.	4	1.8			10 n		sw.	0.20	5.1	light rain	J. Daly.
Uvalde, Texas	28.86	733.0	29.83	757.7	66	18.9	23	nw.	10	4.5		0	0			0	0	clear	E. C. Imlay.
Vicksburg, Mississippi	29.43	747.5	29.69	754.1	75	23.9	82	s.	8	3.6			10 s		s.	0.16	4.1	cloudy	T. J. Kenan.
Visalia, California	29.71	754.6	30.08	764.0	45.0	7.2	80	e.	4	1.8		0	2 ks		e.	0	0	clear	J. T. Cochran.
Washington, D. C.	29.99	761.7	30.11	764.8	43	6.1	60	nw.	5	2.2		6 k	2 n	nw.	nw.	inap.	inap.	light hail	B. M. Purssell.
West Las Animas, Colorado	25.92	658 4	29.88	758.9	30	— 1.1	60	w.	8	3.6		0	1 s		sw.	inap.	inap.	clear	J. Grover.
Wickenburg, Arizona					39	3.9	54	calm			0	0	0			c	0	clear	H. A. Kremp.
Williamsport, Pa	29.43	747.5	30.04	763.0	40	4.4	48	nw.	6	2.7		0	0			0	0	clear	B. F. Hough.
Wilmington, N. Carolina	29.97	761.2	30.03	762.7	66	18.9	63	nw.	2	0.9		9 c	0	w.		0	0	cloudy	E. W. Mottann.
Winnemucca, Nevada	25.48	647.2	29.88	758.9	46	7.8	53	sw.	13	5.8			10 ks		sw.	0	0	cloudy	J. R. Williams.
Yankton, Dakota	28.37	720.6	29.71	754.6	40	4.4	100	ne.	14	6.3			10 n			0.08	2.0	light rain	J. H. Atfield.
Yuma, Arizona	29.89	759.2	30.04	763.0	48.0	8.9	56	se.	2	0.9		0	0			0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.08	560.8			57.0	13.9	68	s.	2.4	1.1			9 ks		ne.	0.09	2.3	cloudy	Joaquin Gomez.
Bridgetown, Barbados, W.I.	30.12	765.0	30.13	765.3	81	27.2	86	e.				5 k	5 ks	e.	e.	0	0	fair	J. A. Racker.
Buenaventura, U. S. C.																			J. I. Plume.
Guadeloupe, W. I.	30.01	762.2	30.03	762.7	78	25.6	87	e.				2 k	3 ks			0	0		B. Bigar.
Havana, Cuba, W. I.	30.02	762.5	30.07	763.8	80	26.7	79	se.	2.4	1.1		0	0			0	0	clear	A. Van Caneghem.
Kingston, Jamaica, W. I.	30.09	764.3	30.10	764.5	79.3	26.3	70	n.	1	0.4		0	0			0	0	fine	Robert Johnston.
Navassa, W. I.																			F. M. Everett.
Paramaribo, S. A.	30.06	763 5	30.07	763.8	79	26.1	82	nne.			2	2 c	5 k	e.	e.	0.010	0.3	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.50	749.3	29.96	761.0	78	25.6	84	n.			1		10 s		calm	0.24	6.1	foggy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.							90	ne.			1	0	3 ks			0	0	fair	Earl Flint.
Santiago de Cuba, W. I.	30.06	763.5	30.09	764.3	77	25.0	76	calm	0	0		1 c	2 ks			0	0	fair	Robert Mason.
York Factory, B. A.	29.99	761.7	30.04	763.0	21.0	— 6.1	93	se.	16	7.2		4 k	3 s	se.	se.	0	0	cloudy	W. Wood.

STATIONS AND VESSELS.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
British Naval.																		
H. M. S. Alert, Providence Island, Madagascar	29.90	759.4	80.8	27.1	83	se.			3–5		8							squally.
H. M. S. Alexandra, Malta, Mediterranean	30.09	764.3	70	21.1	67	wnw.			1		2							d. clouds.
H. M. S. Bacchante, N. 33° 48′ E. 35° 19′	29.73	755.1	67	19.4	90	ssw.			5		1	sw.				2	sw.	misty.
H. M. S. Comus, Pelew Island, Oceania	29.89	759.2	80	26.7	91	e.			2		10	e.						heavy rain.
H. M. S. Diamond, S. 34° 53′, E. 151° 19′	29.99	761.7	72	22.2	95	nne.			4–5		4	nne.				2	nne.	squally.
H. M. S. Dido, N. 18° 10′, W. 64° 00′	30.18	766.6	77	25.0		e.			3–4		3	e.						d. clouds.
H. M. S. Dryad, N. 25° 35′ E. 55° 34′	29.74	755.4				nw.			1		1	nw.				1	nw.	blue sky.
H. M. S. Eclipse, S. 6° 07′, E. 39° 27′			85	29.4	91	ssw.			1–2		3					1	ese.	d. clouds.
H. M. S. Espiegle, S. 38° 36′ E. 150° 06′	29.90	759.4	67	19.4	94	nne.			5		1					4	ne.	blue sky.
H. M. S. Fawn, N. 13° 21′, E. 43° 10′	29.71	754.6	83.5	28.6	75	s.			6		0					4	s.	misty.
H. M. S. Gannet, S. 29° 56′, W. 71° 20′	30.06	763.5	58	14.4	78	n.			2		10							overcast.
H. M. S. Garnet, Calonia, Uruguay	30.23	767.8	55	12.8	80	s.			1		0							blue sky.
H. M. S. Inconstant, Simon's Bay, Cape Colony	30.20	767.1	63	17.2	94	e.			1–2		1	e.						blue sky.
H. M. S. Iron Duke, N. 19° 46′, E. 116° 22′	29.89	759.2	77	25.0	95	ne.			2		4	ne.				1		d. clouds.
H. M. S. Lark, S. 9° 05′, E. 160° 20′	29.87	758.7	80.3	26.8		s.			1		3					1	se.	d. clouds.
H. M. S. Magpie, N. 35° 25, E. 139° 43′	29.86	758.4	63.7	17.6	83	ssw.			3		0							blue sky.
H. M. S. Malabar, N. 34° 56′, E. 19° 00′	29.92	760.0	62	16.7	88	nw.			3		2	nnw.				2	nnw.	misty.
H. M. S. Nelson, Sydney, N. S. Wales	29.98	761.5	70	21.1	90	ne.			2		2	s.						d. clouds.
H. M. S. Northampton, Bermuda, W. I.	30.00	762.0	68	20.0	69	sw.			2		0							blue sky.
H. M. S. Orontes, N. 32° 31′ W. 23° 50′	30.51	774.9	65.5	18.6	70	nne.			4		7					4	n.	d. clouds.
H. M. S. Pegasus, N. 1° 17′, E. 103° 52′	29.81	757.2	86	30.0	75	calm			0		10							d. clouds.
H. M. S. Rambler, Little Fish Bay, Benguela	29.95	760.7	74	23.3	95	wsw.			3		2							blue sky.
H. M. S. Rocket, Esquimalt, Vancouver Id., B. C.	29.61	752.1	48	8.9		wsw.			3		7	ssw.						d. clouds.
H. M. S. Serapis, N. 17° 00′ E. 67° 55	29.79	756.7	82	27.8	63	wnw.			3		0							blue sky.
H. M. S. Superb, N. 39° 38′, E. 19° 45′*	30.00	762.0	68	20.0	74	ne.			1		2	ese.						d. clouds.
H. M. S. Tamar, N. 47° 29′ W. 6° 04′	29.53	750.0	56.5	13.6	69	ssw.			6		6	ssw.				5	ssw.	d. clouds.
H. M. S. Thalia, S. 20° 44′, E. 0° 08′	30.19	766.8	73	22.8	85	se.			4		6					2	ese.	shower.
H. M. S. Triumph, Coquimbo, Chili	30.06	763.5	58	14.4	81	n.			1–2		9	calm						d. clouds.
H. M. S. Tyne, N. 12° 02′, E. 51° 07′	29.87	758.7	83	28.3	100	calm			0		0							blue sky.
Portuguese Naval.																		
Rio Lima, Bulama, Senigambia	29.94	760.5	76.1	24.5	88	n.			4		0					3	n.	blue sky.
Tamega, Aberdeen, China	29.92	760.0	73.4	23.0	78	ne.			1		0					1	ne.	blue sky.
Swedish Naval.																		
Balder, N. 40° 24′ W. 59° 02′	29.56	750.8	50.2	10.1	99	wsw.			3		9							raining.
United States Naval.																		
Navy Yard, Pensacola, Fla	29.81	757.2	75	23.9	95	sse.	10	4.5			8		ssw.	0	0			fair.
Navy Yard, Portsmouth, N. H.	29.77	756.1	46	7.8	40	nw.	25	11.2			3		nw.	0	0			fair.
Naval Hospital, Yokohama, Japan	29.72	754.9	63.5	17.5	89	sw.			4		1		sw.	sli't	sli't			clear.
Adams, Acapulco, Mexico	29.75	755.6	80	26.7	91	calm			0		0			0	0	sm'h		clear.
Alaska, Panama, Panama	29.85	758.2	79	26.1	82	nnw.			1		0			0	0	sm'h		clear.
Alert, Kobe, Japan*	29.81	757.2	66	18.9	74	ne.			1		5		wsw.	0	0	long	s;e.	fair.
Alliance, N. 23° 35′ W. 85° 12′	29.95	760.7	80	26.7	87	se.			5		5		se.	sli't	sli't	sm'h	se.	fair.
Ashuelot, Kobe, Japan	29.94	760.5	62	16.7	77	e.			2		5		wnw.					fair.
Brooklyn, Montevideo, Uruguay	30.18	766.6	57	13.9	75	s.	9	4.0			5		s;w.	0	0	mod	s.	fair.
Colorado, New York, N. Y.	29.97	761.2	44	6.7	52	nw.	12	5.4			5		w.	0	0			cloudy.
Enterprise, N. 23° 40′, W. 83° 43′*	30.02	762.5	79	26.1	91	se.			5		2		se.			mod.		clear.
Essex, S. 13° 34′ W. 28° 14′	30.05	763.3	80	26.7	82	se.			2		2					sm'h		clear.
Franklin, Norfolk, Va.	30.08	764.0	54	12.2	61	ne.	2.4	1.1			0			0	0			clear.
Galena, Leghorn, Italy	30.16	766.1	68	20.0	84	nw.			1		0					sm'h		clear.
Independence, Navy Yard, Mare Island, Cal.	29.92	760.0	52	11.1	86	sw.			4		10			0	0			threatening
Iroquis, Mare Island, Cal.	30.04	763.0	52	11.1	86	sw.			4		10		sw.					cloudy.
Kearsarge, N. 36° 55′, W. 75° 55′	30.06	763.5	54	12.2	74	nne.			3		5		ne.			sm'h		fair.
Lackawanna, Casma Bay, Peru*†	30.06	763.5	65	18.3	94	calm			0		5		s.					fair.
Lancaster, Leghorn, Italy*	30.10	764.5	67	19.4	69	n.			3		0			0	0			clear.
Marion, S. 24° 35′, W. 3° 42′	30.21	767.3	73	22.8	81	calm			0		10		calm			sm'h		cloudy.
Michigan, Erie, Pa.	29.96	761.0	38	3.3	100	ne.			3		0							clear.
Minnesota, Newport, R. I.	29.80	756.9	44	6.7	60	nw.	15	6.7			0							clear.
Monocacy, Kobe, Japan	29.95	760.7	65	18.3	84	e.			2		5		se.					fair.
New Hampshire, Newport, R. I.	29.78	756.4	45	7.2	100	nw.			6		5		nw.			mod.		fair.
Nipsic, Villafranca, France	30.16	766.1	69	20.6	52	ese.			1		2					sm'h		clear.
Onward, Callao, Peru†	30.11	764.8	63	17.2	94	sse.			3		5		n.			long	w.	fair.
Palos, Kobe, Japan	29.94	760.5	64	17.8	73	ese.			1		8		calm					fair.
Passaic, Washington, D. C.	30.11	764.8	46	7.8	69	nw.			1		8							cloudy.
Pensacola, Callao, Peru	30.01	762.2	65	18.3	84	sse.	3	1.3			2		sse.	0	0	sm'h		fair.
Powhatan, Havana, Cuba, W. I.	30.05	763.3	79	26.1	95	se.			1		0							clear.
Portsmouth, N. 38° 51′, W. 59° 52′	29.62	752.3	59	15.0	70	w.			7		5?		w.			r'gh	v.	clear?
Quinnebaug, Leghorn, Italy	30.12	765.0	66	18.9	68	nw.			3		0					sm'h		hazy.
Ranger, Mazatlan, Mexico*	29.91	759.7	64	17.8	78	nnw.			2		2		calm	0	0	sm'h		clear.
Richmond, Kobe, Japan*	29.88	758.9	64	17.8	83	ene.			2		1		e.	0	0			clear.
Saratoga, N. 40° 33′, W. 57° 30′	29.54	750.3	57	13.9	69	wsw.			4–6		8		wsw.	h'vy	hv'y	r'gh	wsw.	fair.
Shenandoah, Havana, Cuba*	30.12	765.0	77	25.0	86	se.			4		2		se.			sm'h		hazy.
St. Louis, League Island, Pa.	30.31	769.9	48	8.9	49	nw.	7	3.1			0			0	0			clear.
Swatara, N. 34° 25′, E. 133° 56′*	29.77	756.1	64	17.8	73	sw.			1		2		calm			sm'h		fair.
Tennessee, N. 33° 32′, W. 76° 36′	30.08	764.0	74	23.3	100	wnw.	13	5.8			2		nw.	0	0	mod.	sw.	fair.
Vandalia, Hampton Roads, Va†	30.31	769.9	54	12.2	67	ne.			3		2		calm					clear.
Wabash, Boston, Mass.	29.79	756.7	43	6.1	60	nw.	8	3.6			2		nw.	0	0			clear.
Wachusetts, Sitka, Alaska	29.37	746.0	31	— 0.6		calm			0		8		calm			long	w.	fair.
Wyoming, Port Royal, S. C.	30.01	762.2	70	21.1	90	sw.	10	4.5			10		w.	0	0			overcast.
Yantic, Fort Monroe, Va*†	30.27	768.8	55	12.8	74	ne.			2		0							clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.			Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Amount and kind.		Direction.						
								Force.	Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Circassian, Halifax, N. S.	29.61	752.1	39	3.9	91	nw.			5	9		nw.	6 h'r	6 h'r			snowing.
S. S. Nova Scotian, N. 52° 34′ W. 23° 44′	29.90	759.4	49	9.4		nw.			4	5		nw.			long	nw.	fair.
S. S. Polynesian, N. 54° 48′ W. 13° 18′*	29.41	747.0	48	8.9		n.			6	4?		nne.	4 h'r	4 h'r	cross	sw.	cloudy?
S. S. Scandinavian, N. 52° 19′, W. 15° 28′*	29.58	751.3	48	8.9		nnw.			7	5		nnw.	3 h'r	3 h'r	cross	nnw.	d. clouds.
S. S. Waldensian, N. 51° 07′, W. 28° 23′*	30.04	763.0	46	7.8		nne.			3	1?		ne.	o	o	light	ne.	cloudy.
AMERICAN STEAMSHIP COMPANY.																	
S. S. British Crown, N. 45° 58′, W. 33° 49′†	30.49	774 4	58	14.4		ssw.			5	10			o	o	mod.	sw.	overcast.
S. S. Illinois, St. George's Channel, Eng	29 35	745.5	52	11.1	93	e.			5	10		nw.				e.	overcast.
S. S. Indiana, Philadelphia, Pa.†	30.07	763.8	43	6.1	75	w.			3	2		w.	o	o			fair.
S. S. Pennsylvania, N. 44° 28′, W. 39° 34′†	30.16	766.1	59	15.0	94	w.			0			w.			r'gh	w.	d. clouds.
ANCHOR LINE.																	
S. S. Assyria, N. 47° 27′, W. 27° 10′*†	30.37	771.4	51	10.6		nw.			6	8		nw.	o	o	mod.	nw.	fine.
S. S. Bolivia, New York, N. Y.†	29.89	759.2	49	9.4		nw.			6	6		nw.	o	o			
S. S. Devonia, N. 45° 45′, W. 43° 50.′†	29.77	756.1	58	14.4		s.			7	10		s.			h'vy	ssw.	heavy rain.
S. S. Galatia, N. 49° 00′, W. 13° 00′†	29.34	745.2				nnw.			10	9		nw.	2 h'r	2 h'r	high	nnw.	
S. S. India, N. 16° 43′, E. 40° 47′*	29.75	755.6	85	29.4	92	sse.			2	0							clear.
ATLAS LINE.																	
S. S. Atlas, Gonaives, Hayti, W. I.†	30.10	764.5	84	28.9	83	calm			0	5		ne.	o	o			hazy.
S. S. Alvo, Savanilla, U. S. C.	30.41	772.4	102	38.9		se.			2	2		se.	o	o			fair.
S. S. Arden, N. 30° 30′, W. 74° 30′						calm			0	0					sm'h		clear.
S. S. Claribel, N. 18° 40′, W. 73° 50′*†	30.22	767.6	80	26.7	86	s.			1	2		calm	o	o	sm'h		fine.
BRITISH METEOROLOGICAL OFFICE.																	
Bk. Arran, S 18° 19′. W. 2° 55′	30.05	763.3	82.5	28.1	67	nne.			4	4							d. clouds.
S. Baroda, N. 13° 13′, E. 81° 35′	29.67	753.6	86.4	80.2	73	se			3	1							blue sky.
British Merchant, S. 21° 59′, E. 64° 08′	30.05	763.3	77.8	25.4	78	ese.			5	4							misty.
Glencairn, S. 2° 29′, E. 91° 20′	29.76	755.9	84	28.9	87	ssw.			5	4							squally.
S. S. Hermine, N 26° 44′, W. 42° 26′	30.32	770.1	70.8	21.6	80	ene.			6	7							d. clouds.
CUNARD LINE.																	
S. S. Parthia, Off Cable Island, Eng†	29.36	745 7				se.			3	6		sse.	2 h'r	2 h'r	mod.	sw.	hazy.
S. S. Scythia, N. 41° 13′, W. 53° 13′	29.62	752.3	62	16.7	94	s.			5	1		s.	2 h'r	2 h'r	r'gh	s.	clear.
GENERAL TRANS-ATLANTIC COMPANY.																	
S. S. Canada, Havre, France	29.64	752.9	57.2	14.0		sse.			5	5		s.					
S. S. France, N. 44° 16′, W. 42° 40′ †	29.99	761.7	59.0	15.0		sw.			0			ssw.			high	ssw.	light rain.
S. S. St. Germain, N. 41° 00′, W. 58° 30.′			55.4	13.0		wsw.			6			wsw.	light	light	h'vy	sw.	clear.
GUION LINE.																	
S. S. Wisconsin, N. 42° 04′. W. 50° 34′*†	29.76	755.9	42	5.6	66	ssw.			3	10		ssw.	2 h'r	2 h'r	r'gh	sw.	foggy.
HAMBURG AMERICAN PACKET COMPANY.																	
S. S. Cimbria, N. 40° 57′, W. 63° 17′	29.64	752.8	45.5	7.5		wsw.			5	3		wsw.	o	o	mod.	wsw.	fair.
S. S. Lessing, N. 49° 06′, W. 19° 23′	29.79	756.7	58	14.4		nw.			6	5		nw.	o	o	sm'h	nw.	
S. S Silesia, N. 40° 32′, W. 67° 36′†	29.82	757.4	41.0	5.0		wnw.			5	2		nw.	o	o	4–5	nw.	fair.
S. S. Wieland, Havre Road, France	29.65	753.1	64	17.8		s.			4	8		s.	o	o	2	sw.	cloudy.
JOHNSTON LINE.																	
S. S. Thanemore, N. 51° 30′, W. 8° 38′	29.82	757.4				sse.			4	8		ssw.	14 h'r	14 h'r		s.	hazy.
LAMPERT AND HOLT'S LINE.																	
S. S. Hevelius, N. 1° —′, W. 28° —′*†	30.19	766.8	82	27.8		ese.			3	7		se.	1 h'r	1 h'r	long	se.	cloudy.
LEYLAND LINE.																	
S. S. Iberian, N. 43° 46′, W. 48° 24′	29.66	753.4				s.			7	fg.			18 h'r	18 h'r	high	sw.	
MALLORY LINE.																	
S. S. Colorado, New York, N. Y.†	29 68	753.9	50	10.0		nw.			3	2		nw.	o	o			fair.
MERCHANTS' EXPRESS LINE.																	
S. S. Freja, N. 46° 10′, W. 33° 03′†	30.31	769.9	56	13.3	87	sw.			4-5	10		sw.	4 h'r	4 h'r	mod.	wsw.	
MERCHANTS' STEAMSHIP COMPANY.																	
S. S. Glenapp, N. 32° 55′, W. 67° 26′*†	30.00	762.0				wnw.			5	3		nw.	o	o	mod.	nw.	clear.
NATIONAL LINE.																	
S. S Denmark, N. 40° 49′, W. 58° 30′	29.54	750.3	59	15.0		wsw.			6	5		wsw.	3 h'r	3 h'r	long	ssw.	fair.
S. S. England, N. 50° 28′ W. 19° 31′	29.96	761.0				nne.			6	8			o	o	mod.	n	cloudy.
S. S. Erin, London, England	29.57	751.1	60	15.6		sse.			3	10		se.	5 h'r	5 h'r			
NEW YORK, HAVANA AND MEXICAN MAIL.																	
S. S City of Alexandria, New York, N. Y.*†	30.02	762.5	54	12.2		w			6	4		w.	o	o			clear.
S. S. City of Puebla, N. 19° 25′, W. 92° 43†	29.68	753.9	80	26.7		se.			1	sk					mod.	ese.	
NEW YORK HERALD WEATHER SERVICE.																	
S. S. Alvena, N. 38° 10′ W. 72° 14′†	29.99	761.7	49	9.4		nw.			4							n.	clear.
S. S. Atlas, N. 27° 50′, W. 74° 25′*†	30.24	768.1	74	23.3		ene.			3						sm'h		clear.
S. S. New York, N. 24° 45′, W. 81° 10′*†	30.50	774.7	80	26.7		sse.			3							sse.	very fine.
S. S. W. A. Scholten, N. 48° 11′, W. 16° 16′	29.42	747.3	54.0	12.2		n.			8						high		showery.
NORTH GERMAN LLOYD																	
S. S. Elbe, N 40° 40′, W. 67° 58′	29.67	753.7	40.1	4.5	62	wnw.			6	2		w.	o	o	mod.	w.	fair.
S. S. Graf Bismarck, S. 4° 24′, W. 32° 22′	30.06	763.5	83.3	28.5		ese.			4	4		ese.	2 h'r	2 h'r	mod.	ese.	fair.
S. S. Habsburg, N. 49° 38′, W. 11° 11′	29.01	736 8	52.7	11.5		se.			6	8		se.	5 h'r	5 h'r	long	sse.	cloudy.
S. S Kronprinz F. Wilhelm, N. 47° 51′, W. 33° 20′	30.15	705.8	47.3	8.5		ssw.			5	10			sh'rs	shr's	5	sw.	cloudy.
S. S. Main, Southampton River, Eng	29.57	751.1	50.0	10.0		sse.			3-4	5?		se.	o	o			covered.?
S. S. Mosel, N. 47° 49′, W. 20° 22′	30.29	709 4	53	11.7		wsw.			4	9		wsw.	2¼h'r	2½hr	mod.	wsw.	drizzling.
S. S. Nurnburg, N. 43° 58′, W. 39° 44′*	30.18	766.6	59.0	15.0		s.			6	10		s.	2½h'r	2½h'r	r'gh	ssw.	hazy
S. S. Oder, N 40° 32′, W. 71° 27′	29.87	758.7	42.8	6.0		nw.			4	2		nw.	o	o	mod.	w.	fair.
S. S. Ohio, N 45° 51′ W. 29° 55′	30.37	771.4				w.			3	9		w.	o	o	mod.	nw.	cloudy.
S. S. Rhein, N. 47° 54. W. 25° 16′	30.13	765.3				n.			4	3		n.	o	o	r'gh	n.	fair.
S. S. Saller, N 41° 16′, W. 56° 07′	29.57	751.1	51.8	11.0		ssw.			5	10		sw.	3 h'r	3 h'r	h'vy	sw.	cloudy.
S. S. Strassburg, N. 38° 44′, W. 67° 58′	29.90	759.4	46.5	8.1	92	nw.			6	4		nw.	o	o	r'gh	nw.	cloudy.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																	
S. S. Belgic N 38° 00′, W. 133° 43′†	30.25	768.3	55	12.8	80	wnw.			5	8		nw.	o	o	r'gh	nw.	cloudy.
S. S. Oceanic, Hong Kong, China*	29.89	759.2	74	23.3	81	e.			2								cloudy.
OCEAN STEAMSHIP COMPANY.																	
S. S. City of Augusta, New York, N. Y.†	29.83	757.7				nnw.			5	6?		nw.	o	o			clear ?
S. S. Seminole, N. 36° 30′. E. 74° 55′†	30.07	763.8	58	14.4	76	ne.			1	o			o	o	sm'h	se.	clear.
OREGON IMPROVEMENT COMPANY.																	
S. S. Mississippi, N. 42° 11′ W. 124° 36′†	29.92	760.0	46	7.8	77	wnw.			4	5		wnw.			mod.	w.	fair.
OREGON RAILWAY AND NAVIGATION COMPANY.																	
S. S. City of Chester, N. 48° 06′, W. 124° 53′*†	29.66	753.4	42	5.6	91	sw.			6	8		s.			small	se.	cloudy.
S. S. Oregon, Portland, Oregon†	29.69	754.1	45	7.2	92	sw.			1	10		sw.					light rain.
PACIFIC COAST STEAMSHIP COMPANY.																	
S. S. Ancon, San Francisco, Cal. †	30.08	764.0	52	11.1	86	w.			2	10		w.					misty.
S. S. Idaho, N. 42° 05′, W. 124° 35′ †	29.86	758.4	44	6.7	68	ese.			5	2		se.			h'vy	se.	clear.
S. S. State of California, N. 45° 06′ W. 124° 20′.†	29.73	755.1	43	6.1	75	sw.			5	8		s.			sm'h	sw.	
S. S. Victoria, Nanaimo, Vancouver's I'd.†	29.59	751.5	35	1.7	90	calm			0	10							light rain.
PACIFIC MAIL STEAMSHIP CO.																	
S. S. Australia, N. 34° 00′, E 164° 42′	30.18	766.6	62	16.7	66	ese.			4	5		e.			sm'h	e.	fine.
S. S. City of New York, Sydney, N. S. W.†	30.03	762.7	71	21.7	85	ne.			1	1?		ne.	o	o			overcast?
S. S. City of Pekin, N. 16° 45′, W 100° 00′†	29.94	760.5	80	26.7	78	nw.			1	2					sm'h		hazy.
S. S. City of Rio de Janeiro, Panama, Panama*†	30.16	766.1	77	25.0	91	nw.			2	3		nw.			sm'h	nw.	clear.
S. S. City of Tokio, N. 35° 05′, E. 161° 39′†	30.16	766.1	62	16.7	88	wnw.			6	8		nw.	6 h'r	6 h'r	mod.	nw.	cloudy.
S. S. Clyde, N. 16° 00′, W. 97° 43′†	29.95	760.7	80	26.7	82	wnw.			2	2		nw.	o	o	light	sw.	fair.
S. S. Colon, N. 28° 57′. W. 74° 07′†	30.17	766.3	74	23.3		ne.			2	o			o	o	sm'h	nw.	clear.
S. S Grenada, N 27° 58′, W. 116° 10′†	30.06	763.6	59	15.0	82	nnw.			2	o			o	o	mod.	nw.	hazy.
S. S. South Carolina, N. 7° 22′ W. 82° 08′†	30.05	763.3	82	27.8	83	nw.			2	5		ne.	o	o	sm'h		clear.
S. S. Zelandia, N. 3° 16′, W. 164° 28′	29.88	758.9	83	28.3	83	e.			4	10		e.			mod.	e.	cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
Quebec Steamship Company.																		
S. S. Muriel, Guadaloupe, W. I.	30.09	764.3	78	25.6	.....	ene.	.....	.....	4	.....	0	.....	.....	0	0	sm'h	.....	fair.
S. S. Bermuda, N. 18° 35′, W. 63° —†.	30.24	768.1	60	15.6	.....	ese.	.....	.....	3	.....	3	.....	ese.	0	0	g'tl	e.	fine.
Red Star Line.																		
S. S. Belgenland, N. 48° 54′, W. 15° 20′†.	29.59	751.6	55	12.8	93	nnw.	.....	.....	9	.....	5	.....	nnw.	12 h'r	12 h'r	hv'y	nnw.	fair.
S. S. Rhyniand, N. 40° 10′, W. 63° 25′.	29.63	752.6	48	8.9	78	w.	.....	.....	6	.....	8	.....	w.	0.3	8.	high	w.	cloudy.
S. S. Vaderland, Antwerp, Belgium.	29.68	753.9	64	17.8	83	wsw.	.....	.....	2	.....	8?	.....	.....	0	0	.....	.....	clear?
S. S. Waesland, N. 45° 22′, W. 31° 13′.	30.36	771.1	59	15.0	.....	wsw.	.....	.....	4	.....	8	.....	w.	0	0	long	wnw.	cloudy.
Rotterdam Line.																		
S. S. Schiedam, N. 41° 20′ W. 60° 00′*.	29.54	750.3	50.0	10.0	84	w.	.....	.....	6	.....	5	.....	w.	0	0	high	wsw.	cloudy.
Sta e Line.																		
S. S. State of Florida, Glasgow, Scotland	29.60	751.8	56	13.3	.....	ne.	.....	.....	2	.....	9	.....	ne.	1 h'r	1 h'r	.....	.....	cloudy.
S. S. State of Georgia, N. 40° 57′, W. 61° 47′†.	29.60	751.8	52	11.1	.....	nw.	.....	.....	6	.....	5	.....	nw.	.....	.....	mod	w.	fair.
S. S. State of Indiana, N. 51° 40′ W. 24° 00′†.	29.89	759.2	46	7.8	.....	nw.	.....	.....	5	.....	4	.....	nw.	0	0	mod.	nw.	fair.
Thingvalla Line.																		
S. S. Thingvalla, N. 47° 55′ W. 40° 33′.†.	30.04	763.0	54.5	12.5	.....	s.	.....	.....	6	.....	10	.....	.....	10 h'r	10 h'r	cross	s.	covered.
Warren Line.																		
S. S. Iowa, N. 52° 46′, W. 5° 19′*†.	29.63	752.6	47	8.3	.....	ese.	.....	.....	5	.....	10	.....	ese.	7 h'r	7 h'r	sm'h	.....	raining.
White Cr 88 Line.																		
S. S. Hermann, N. 49° 36′ W. 17° 29′†.	29.74	755.4	.....	.....	.....	nnw.	.....	.....	7	.....	5 ks?	.....	nne.	rain	rain	h'vy	nne.	cloudy.†
White Star Line.																		
S. S. Britannic, N. 51° 11′, W. 15° 06′†.	29.47	748.5	48	8.9	.....	n.	.....	.....	6	.....	10	.....	n.	7 h'r	7 h'r	high	n.	overcast.
S. S. Celtic, Off Sandy Hook, N. J.†.	29.95	760.7	45	7.2	.....	nw.	.....	.....	5	.....	5	.....	nw.	0	0	.....	.....	fair.
Wilson Line.																		
S. S. Salerno, N. 49° 48′ W. 14° 06′*.	29.20	741.7	50	10.0	96	n.	.....	.....	10	.....	10	.....	n.	.....	.....	high	nnw.	misty.
Winsor Line.																		
S. S. Catherine Whiting, Providence, R. I.†.	29.90	759.4	.....	.....	.....	nw.	.....	.....	2	.....	.....	.....	w.	0	0	.....	.....	
Miscellaneous.																		
Schr. Abbie Clifford, N. 38° 32′, W. 62° 49′*†.	29.60	751.8	56	13.3	.....	nw.	.....	.....	8	.....	9	.....	nw.	0	0	high	wnw.	cloudy.
Schr. Addie Fuller, N. 36° 00′, W. 75° 00′†.	30.12	765.0	53	11.7	67	ene.	.....	.....	3	.....	hz	.....	.....	0	0	sm'h	.....	clear.
Bk. Adelaide, Rio de Janeiro, Brazil*†.	29.90	759.4	70	21.1	.....	wnw.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Schr. Ajax, Mobile, Ala†.	30.10	764.5	.....	.....	.....	sse.	.....	.....	3	.....	3	.....	s.	0	0	.....	.....	clear.
Bk. Alpha, Santiago de Cuba, W. I†.	30.02	762.5	80	26.7	.....	ne.	.....	.....	1	.....	2	.....	ne.	0	0	.....	.....	fair.
Schr. Annie Lewis, N. 28° 35′, W. 88° 50′†.	29.91	759.7	78	25.6	.....	sse.	.....	.....	5	.....	2	.....	s.	0	0	hv'y	sse.	clear.
Bk Antioch, S. 39° 42′, E. 21° 45′*†.	29.95	760.7	60	15.6	.....	nw.	.....	.....	5	.....	9	.....	nw.	1 h'r	1 h'r	mod.	wsw.	overcast.
Schr. Asa Eldridge, N. 25° 04′, W. 81° 48′†.	30.05	763.3	.....	.....	.....	se.	.....	.....	4	.....	8	.....	sse.	0	0	r'gh	s.	hazy.
Bk. Aureola, S. 5° 22′ W. 30° 25′*†.	30.04	763.0	95	35.0	.....	se.	.....	.....	5	.....	2	.....	se.	0	0	light	se.	clear.
Schr. Annie M. Smull, S. 41° 09′. E. 67° —†*.	30.00	762.0	54	12.2	.....	nw.	.....	.....	.....	.....	.....	.....	nw.	0	0	.....	.....	
Bkt. Carrie Heckle, N. 21° 56′ W. 80° 30′*†.	30.18	766.6	82	27.8	.....	se.	.....	.....	2	.....	0	.....	.....	0	0	.....	.....	clear.
Bk. Celestina, S. 33° 19′ W. 46° 28′*†.	29.65	753.1	.....	.....	.....	sw.	.....	.....	5	.....	8	.....	sw.	0	0	h'vy	sw.	
Bk. Champion, N. 47° 32′, W. 17° 29′†.	.....	.....	.....	.....	.....	nw.	.....	.....	11	.....	.....	.....	nw.	12 h'r	12 h'r	r'gh	nw.	
S. S. Compton, Cardenas, Cuba, W. I†.	30.05	763.3	.....	.....	.....	calm.	.....	.....	0	.....	1	.....	calm	0	0	.....	.....	clear.
S. Dora, N. 38° 15′ W. 63° 20′†.	29.78	756.4	62.6	17.0	.....	w.	.....	.....	6–7	.....	8	.....	w.	4 h'r	4 h'r	high	w.	squally.
Bk. E. J. Spicer, N. 39° 38′, W. 63° 00′†.	29.72	754.9	.....	.....	.....	nw.	.....	.....	7	.....	10	.....	wnw.	8 h'r	8 h'r	rg'h	sw.	cloudy.
Bk. E. L. Pettingill, N. 34° 16′ W. 122° 12′†.	30.20	767.1	.....	.....	.....	nw.	.....	.....	4	.....	5	.....	nw.	0	0	sm'h	nw.	d clouds.
S Enoch Train, N. 38° 20′ W. 39° 10′*.	30.37	771.4	.....	.....	.....	ssw.	.....	.....	3	.....	5	.....	ssw.	0	0	light	wnw.	fine.
S. Exporter, S. 2° 10′, W. 26° 20′*†.	30.10	764.5	.....	.....	.....	se.	.....	.....	4	.....	2	.....	se.	0	0	long	se.	fine.
S. Festina Lente, N. 40° 17′, W. 54° 27′*.	29.68	753.9	60	15.6	.....	w.	.....	.....	5	.....	10	.....	wnw.	10 h'r	10 h'r	long	wsw.	raining.
U.S. F.C.S. Fish Hawk, Quantico, Va†.	30.20	767.1	50	10.0	71	wnw.	.....	.....	2	.....	3	.....	w.	0	0	.....	.....	clear.
S. Grecian, S. 40° 22′, W. 24° 47′*†.	30.00	762.0	52	11.1	.....	w.	.....	.....	4	.....	4	.....	w.	0	0	long	sw.	hazy.
Bk. Freya, N. 44° 51′, W. 27° 28′.	.....	.....	53	11.7	.....	nw.	.....	.....	5	.....	2	.....	nnw.	0	0	mod.	nw.	fair.
Bk. Granville, Algoa Bay, Africa*†.	30.06	763.5	.....	.....	.....	calm	.....	.....	0	.....	.....	.....	.....	0	0	.....	.....	clear.
Bk. Hattie G. McFarland, Baltimore, Md.*†.	30.05	763.3	56	13.3	.....	nw.	.....	.....	1	.....	1	.....	nw.	0	0	.....	.....	clear.
Schr. Henry Denison, N. 24° 15′, W. 74° 40′†.	30.08	764.0	.....	.....	.....	e.	.....	.....	3	.....	2	.....	e.	0	0	light	e.	fair.
S. Hedwig, N. 40° 42′, W. 53° 59′.	29.65	753.0	59.0	15.0	89	wsw.	.....	.....	6	.....	7	.....	wsw.	8 h'r	8 h'r	5	s.	squally.
Schr. John L. Thomas, N. 15° 52′, W. 79° 46′*†.	30.14	765.5	.....	.....	.....	ene.	.....	.....	.....	.....	4	.....	ese.	0	0	.....	.....	fine.
Bg John Wesley, Sagua la Grande, Cuba, W. I.†.	29.90	759.4	79	26.1	.....	s.	.....	.....	1	.....	0	.....	.....	0	0	.....	.....	clear.
Bk. Jona, N. 46° 31′, W. 22° 02′*†.	30.20	767.1	.....	.....	.....	n.	.....	.....	4	.....	5	.....	ne.	0	0	mod.	var.	clearing.
Bkt. Josephine, N. 9° 58′, W. 78° 45′*†.	30.06	763.5	84	28.9	75	n.	.....	.....	3	.....	10	.....	nne.	0	0	mod.	nne.	hazy.
Bk. Kate Cann, N. 48° 23′, W. 11° 46′.	.....	.....	.....	.....	.....	wnw.	.....	.....	6	.....	2	.....	nnw.	0	0	r'gh	nw.	
Bkt. Kryolith, N. 42° 55′, W. 14° 00′*†.	29.75	755.6	.....	.....	.....	wnw.	.....	.....	9	.....	10	.....	.....	rain	rain	hv'y	var.	heavy rain.
S. Lake Erie, N. 44° 55′ W. 31° 27′.	30.37	771.4	.....	.....	.....	wsw.	.....	.....	4	.....	3	.....	W.	0	0	hv'y	n.	clear.
S. S. Lamperts, N. 50° 26′ W. 2° 20′*.	29.58	751.3	53.0	11.7	93	sw.	.....	.....	2	.....	10	.....	.....	.....	.....	1	.....	raining.
Bk. Liberia, N. 9° 16′, W. 16° 32′*†.	30.00	762.0	74	23.3	85	nw.	.....	.....	2	.....	4	.....	ne.	0	0	.....	.....	
Light House Tender, Laurel, Key West, Fla†.	30.07	763.8	81	27.2	.....	sse.	.....	.....	3	.....	2	.....	se.	0	0	.....	.....	clear.
Schr. Maggie Abbott, Baracoa, Cuba, W. I.*†.	30.01	762.2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
S. S. Malabar, Suez Canal*†.	29.77	756.1	.....	.....	.....	w.	.....	.....	7	.....	0	.....	.....	0	0	.....	.....	clear.
Bg. Medina, Key Francis, W. I.†.	30.21	767.3	.....	.....	.....	ese.	.....	.....	1	.....	2	.....	se.	.....	.....	.....	.....	fine
S. S. Nebo, Santos, Brazil*†.	29.81	757.2	.....	.....	.....	n.	.....	.....	1	.....	0	.....	.....	10 h'r	10 h'r	.....	.....	clear.
S. S. New York, Off Cape Sacratif, Spain*†.	30.25	768.3	.....	.....	.....	w.	.....	.....	4	.....	.....	.....	w.	0	0	mod	w.	fair.
Bk. Peppina, Bordeaux, France†.	29.80	756.9	69	20.6	43	nnw.	.....	.....	3	.....	2	.....	nw.	.....	.....	.....	.....	fair.
S. Salisbury, S. 3° 08′, W. 27° 01′*.	30.02	762.6	88.0	31.1	84	se.	.....	.....	5	.....	3	.....	ese.	4 h'r	4 h'r	mod.	ssw.	fair.
Schr. S. B. Hubbard, N. 34° 37′, W. 75° 33′*†.	30.05	763.3	70	21.1	.....	ne.	.....	.....	3	.....	0	.....	.....	0	0	.....	sse.	fine.
Bkt. Spotless, S. 13° 32′, W. 33° 55′.	.....	.....	.....	.....	.....	e.	.....	.....	.....	.....	.....	.....	e.	.....	.....	mod.	s.	fine.
Bk. Stella, S. 37° 36′, W. 84° 44′*.	29.86	758.4	60.8	16.0	92	sw.	.....	.....	4	.....	5	.....	sw.	0	0	mod.	w.	d. clouds.
S. Washington, N. 41° 16′, W. 44° 58′*†.	29.99	761.7	.....	.....	.....	sse.	.....	.....	6	.....	10	.....	sse.	0	0	hv'y	s.	cloudy.
Bg. Wauburn, N. 7° 41′, W. 43° 57′*†.	30.00	762.0	.....	.....	.....	ne.	.....	.....	6	.....	5	.....	ene.	.....	.....	sm'h	.....	
S. Wm. Woodbury, N. 37° 39′, W. 43° 58′*†.	30.08	764.0	56	13.3	.....	ssw.	.....	.....	7	.....	.....	.....	sw.	.....	.....	cross	sw.	cloudy.

International Chart I. April 22, 1882. Isobars and Isotherms.



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON APRIL 23, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours	.....	.....	30.17	766.2	72.7	22.6	83	ne.	.....	.....	1	.....	0	.....	.....	0	0	clear.....	Moiroud.
Algiers	.....	.....	30.10	764.6	71.2	21.8	45	w.	.....	.....	7	.....	4	.....	.....	0	0	cloudy.....	Nicolas.
La Calle	.....	.....	30.13	765.3	73.4	23.0	98	nw.	.....	.....	3	.....	3	.....	.....	0	0	pretty fair...	Fonfrède.
Tunis	.....	.....	30.06	763.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.21	767.2	63.0	17.2	31	nw.	.....	.....	2	.....	1	.....	.....	0	0	very fair	Dumas.
Tebessa	.....	.....	30.17	766.2	70.5	21.4	40	n.	.....	.....	1	.....	1	.....	.....	Inap.	Inap.	very fair	Derché.
Geriville	.....	.....	.....	.....	58.6	14.8	12	n.	.....	.....	3	.....	3	.....	.....	0	0	pretty fair..	Lonchamp.
Laghouat	.....	.....	30.20	767.1	76.3	24.6	50	sw.	.....	.....	1	.....	0	.....	.....	0	0	clear.....	Abraham.
Biskra	.....	.....	30.17	766.4	70.9	21.6	44	se.	.....	.....	1	.....	7	.....	.....	0	0	very cloudy.	Malau.
Australian.																			
Melbourne, Victoria	29.74	755.4	29.83	757.7	56.0	13.3	93	se.	3	1.3	.....	.....	3	.....	.....	0.47	11.9	fine.....	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.41	747.0	29.95	760.6	67.6	19.8	48	s.	.....	.....	2	.....	1	.....	.....	0	0	.....	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.14	740.2	29.89	759.1	67.6	19.8	38	s.	8.1	3.6	.....	.....	1	.....	.....	0	0	.....	Dr. Wierzbiski.
Eperies	29.06	738.1	29.91	759.7	68.0	20.0	38	s.	.....	.....	2	1 c	0	.....	.....	0	0	.....	Julius Mikolik.
Gratz	28.73	729.8	29.96	760.9	64.4	18.0	52	s.	.....	.....	3	.....	0	.....	.....	0	0	.....	Andreas Rospini.
Hermannstadt	28.58	725.9	29.96	760.9	71.8	22.1	30	sso.	.....	.....	2	.....	0	.....	.....	0	0	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.48	723.4	29.77	756.2	67.6	19.8	40	calm	.....	.....	0	.....	0	.....	.....	0	0	clear.....	The Staff.
Lemberg	28.97	735.8	29.93	760.2	65.7	18.7	36	sw.	.....	.....	1	.....	1	.....	.....	0	0	.....	Dr. T. Stanecki.
Pola	29.89	759.3	30.00	762.1	65.7	18.7	61	sw.	.....	.....	1	.....	0	.....	.....	0	0	.....	I. R.Hydrographic Office.
Szathmar	29.50	749.3	29.96	760.9	70.9	21.6	28	e.	.....	.....	3	.....	0	.....	.....	0	0	.....	Joseph Midlinszky, S. J.
Szegedin	29.68	753.8	29.95	760.7	70.2	21.2	33	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	Karl Stancel.
Trieste	29.92	760.0	30.02	762.6	63.3	17.4	42	calm	.....	.....	0	.....	2	.....	.....	0	0	.....	Rieder.
Vienna	29.16	740.7	29.85	758.2	70.2	21.2	34	se.	.....	.....	4	.....	0	.....	.....	0	0	.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.18	741.2	29.28	743 7	45.2	7.3	92	ese.	9	4.0	.....	.....	10	.....	.....	0.100	2.5	misty.....	W. Boswell.
Armagh, Observatory	28.99	736.3	29.23	742.4	53.3	11.8	76	sw.	6	2.7	.....	.....	.....	.....	.....	.....	.....	.....	S. Call.
Bidston, Liverpool Obs'y	.....	.....	29.14	740.1	47.0	8.3	92	w.	30	13.4	.....	.....	10	.....	.....	.....	.....	overcast.....	John Hartnup.
Bolton, Sharples	28.59	726.2	29.11	739.4	49.0	9.4	92	sw.	6	2.7	.....	.....	10	.....	.....	.....	.....	raining.....	Thomas Mackereth. [A.S.
Bradford, Yorkshire	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J.McLandsborough, F. R
Bridgetown, Barbadoes	30.01	762.2	30.04	763.0	84.0	28.9	67	ne.	.....	.....	2	.....	3	.....	.....	.....	.....	d. clouds	Corpl.J.Surgenor, A. H.C.
Cardington	.....	.....	29.23	742.4	56.0	13.3	78	s.	.....	.....	4.0	.....	9	.....	.....	.....	.....	overcast.....	John McLaren.
Chatham, School M. E.	29.22	742.2	29.34	745.2	54.7	12.6	76	sw.	.....	.....	3	.....	8	.....	.....	blank	blank	d. clouds	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	29.25	742.9	29.48	748.8	52.2	11.2	69	wnw.	.....	.....	5	.....	10	.....	.....	.....	.....	squally.....	The Staff.
Fort Napier, Natal	27.61	701.3	29.83	757.7	77.0	25.0	41	ne.	.....	.....	4	.....	3	.....	.....	.....	.....	blue sky.....	Pvt. E. K.Annis, A.H.C.
Free Town, Sierra Leone	29.62	752.3	29.85	758.2	88.0	31.1	75	w.	.....	.....	1	.....	3	.....	.....	.....	.....	raining	Sergt. John Robinson.
Gibraltar, Mediterranean	30.16	766.1	30.22	767.6	69.9	21.1	77	w.	.....	.....	4	.....	0	.....	.....	.....	.....	blue sky.....	Opl. O. Baldwin.
Glasgow, Observatory	28.96	735.6	29.16	740.7	51.2	10.7	75	ene.	.....	.....	2	.....	7 n;k	.....	.....	.....	.....	d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.14	740.1	29.31	744.5	55.4	13.0	83	sw.	.....	.....	5	.....	10	.....	.....	.....	.....	showery.....	The Staff.
Guernsey	29.16	740.7	29.45	748.0	49.5	9.7	98	wnw.	.....	.....	5	.....	10	.....	.....	.....	.....	raining.....	A. Collenette, F. M. S.
Kew, Observatory	29.27	743.4	29.31	744.5	55.7	13.2	73	ssw.	27	12.1	.....	.....	9	.....	.....	.....	.....	threatening.	The Staff.
Leicester, Museum	28.96	735.6	29.21	741.9	53.0	11.7	83	se.	.....	.....	2	.....	9	.....	.....	.....	.....	d. clouds.....	J. G. Smith.
Malta, Mediterranean	29.94	760.5	30.02	762.5	64.6	18.1	76	n.	.....	.....	2	.....	3	.....	.....	.....	.....	blue sky.....	I. H. Whysall.
Nassau, Bahamas	30.03	762.7	30.08	764.0	82.0	27.8	74	sw.	.....	.....	3	.....	4	.....	.....	.....	.....	d. clouds.....	C. S. Duncombe.
Oscott, St. Mary's College	28.68	728.5	29.19	741.4	50.3	10.2	84	sw.	.....	.....	4	.....	10	.....	.....	.....	.....	raining	John Mac Emil.
Oxford, Radcliffe Obs'y	29.04	737.6	29.27	743.4	53.8	12.1	73	ssw.	.....	.....	4	.....	8	.....	.....	.....	.....	threatening..	The Staff.
Plymouth	29.33	745.0	29.41	747.0	54.4	12.4	79	wnw.	.....	.....	3	.....	10	.....	.....	.....	.....	showery.....	John Merrifield.
Sandwick Manse, Orkneys	.....	.....	29.26	743.2	51.2	10.7	91	ssw.	13	5.8	.....	.....	3	.....	.....	.....	.....	d. clouds.....	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.88	758.9	29.94	760.5	60.8	16.0	46	ne.	.....	.....	2	.....	1	.....	.....	.....	.....	blue sky.....	W. H. Lyne.
Sheffield	28.86	733.0	29.14	740.1	56.1	13.4	90	sw.	.....	.....	2	.....	9	.....	.....	0.29	7.4	overcast.....	W. F. Cooper.
Silloth Rectory	29.12	739.6	29.15	740.4	50.0	10.0	92	e.	.....	.....	1	.....	10	.....	.....	0.350	8.9	raining.....	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	29.14	740.1	50.0	10.0	93	n.	.....	.....	3	.....	10	.....	.....	.....	.....	raining.....	Rev. S. J. Perry.
Stratfield Turgiss	.....	.....	.....	.....	57.7	14.3	62	w.	.....	.....	3-4	.....	8	.....	.....	.....	.....	squally.....	Rev.O.H.Griffiths, F.M.S
Truro, Royal Institution	29.45	748.0	29.48	748.8	57	13.0	69	nw.	.....	.....	7	.....	6	.....	.....	.....	.....	d. clouds	W. Newcombe.
Valencia, Observatory	29.49	749.0	29.51	749.5	51.9	11.1	76	nw.	28	12.5	.....	.....	8	.....	.....	.....	.....	squally.....	The Met'g'l Office.
Canadian.																			
Bathurst, N. B	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.39	746.5	29.44	747.8	31	— 0.6	99	nw.	14	6.3	.....	.....	.....	.....	.....	0.200	6.6	light snow...	H. J. Cundall, C. E.
Chatham, N. B*	29.49	749.0	29.56	750.8	32	0.0	81	nw.	11	4.9	.....	.....	10 n	.....	nw.	0	0	cloudy	G. A. Blair.
Father Point, Quebec*	29.73	755.1	29.76	755.9	27	— 2.8	92	n.	37	16.5	.....	.....	10 8	.....	ne.	0.08	2.0	threatening.	J. McWilliams.
Fort Garry, Manitoba*	29.27	743.4	30.12	765.0	30	2.2	69	se.	10	4.5	.....	5 k	5 ks	s.	s.	0	0	cloudy	James Stewart.
Halifax, N. S*	29.42	747.3	29.55	750.6	33	0.6	78	nw.	9	4.0	.....	.....	10 k	.....	nw.	0.010	0.3	cloudy.....	A. Allison.
Kingston, Ontario*	29.65	753.1	30.00	762.0	30	— 1.1	61	n.	12	5.4	.....	0	0	.....	.....	0	0	clear.....	A. P. Knight, M. A.
Montreal, Quebec*	29.71	754.6	29.93	760.2	30	— 1.1	56	nw.	16	7.2	.....	2 c8	0	n.	.....	Inap.	Inap.	clear.....	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.37	746.0	30.10	764.5	27	— 2.8	77	ne.	20	8.9	.....	0	0	.....	.....	0	0	clear.....	Rev. R. Mosley.
Port Dover, Ontario	29.27	743.4	29.99	761.7	34	1.1	71	ne.	12	5.4	.....	10 c	0	ne.	.....	0	0	fair.....	H. Morgan.
Port Stanley, Ontario	29.29	744.0	29.96	761.0	35	1.7	58	ne.	12	5.4	.....	8 ck	0	sw.	.....	0	0	cloudy.....	M. Payne.
Quebec, Quebec*	29.51	749.5	29.85	758.2	25	— 3.9	73	n	.....	.....	1	0	5 8	n.	n.	0.05	1.3	fair.....	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.63	752.6	30.11	764 8	26	— 3.3	64	nw.	5	2.2	.....	0	0	.....	.....	0	0	clear.....	W. H. McIntyre.
Saugeen, Ontario*	29.31	744.5	30.05	763.3	32	0.0	54	ne.	24	10.7	.....	2 c8	0	.....	.....	0	0	clear.....	
St. Andrews, N. B	29.57	751.1	29.63	752.6	31	— 0.6	69	nw	7	3.1	.....	.....	10 n	.....	.....	0	0	cloudy.....	
Sydney, C. B*	29.23	742.4	29.29	744.0	33	0.6	81	sw.	20	8.9	.....	.....	10 8	.....	w.	0.03	0.8	cloudy.....	T. C. Hill, C. E.
Toronto, Ontario*	29.64	752.8	30.04	763.0	33	0.6	88	ne	15	6.7	.....	0	0	.....	.....	0	0	clear.....	Magnetic Observatory.
Yarmouth, N. S*	29.58	751.3	29.64	752.8	32	0.0	88	nw.	10	7.2	.....	.....	10 8	.....	nw.	Inap.	Inap.	light snow...	Lt. F. E. Wilmot, R. N.
Sub-series.																			
St. Johns, Newfoundland	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	29.95	760.7	29.98	761.5	66.0	18.9	83	w.	9.0	4.0	.....	0	2 k	.....	.....	0	0	hazy	John Duthie.
Cape Town, C. G. H. Obs'y	30.04	763.0	30.08	764.0	64.0	17.8	77	nw.	25	10.3	.....	10	10	.....	.....	c	0	.....	The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Chinese (*Sub-series*).																			
Hankow																0	0		N. Titoushkin.
Zi-Ka-Wei, near Shanghai.	30.03	762.8	30.06	763.4	54.1	12.3	95	e.	3.8	1.7			0			0	0	clear	M. Marc Dechevrens, S.J.
Danish.																			
Copenhagen	29.61	752.1	29.66	753.3	56.7	13.7	68	sse.	18.	8			8						Oversergent Fischer.
Fanöe	29.54	750.3	29.56	750.8	53.8	12.1	98	s.			4		1c						Overloerer Lauridsen.
Godthaab, Greenland	30.16	766.0	30.20	767.1	23.7	— 2.4	70	ne.			4		0						S. Kleinschmidt.
Stykkisholm, Iceland	29.93	760.3	29.98	761.4	27.7	— 4.6	96	ne.			7		8						A. O. Thorlacius.
Thorshavn	29.46	748.3	29.50	749.2	45.0	7.2	86	ne.	25.	11			10					raining	Overloerer Bergh.
Vestervig	29.43	747.6	29.52	749.9	50.2	10.1	96	calm			0		10					raining	Loearer Oesterbol.
French.																			
Agen, Normal School	29.31	744.5	29.97	761.2	54.0	12.2	76	ssw.			1	0	2 k		w.	0.071	1.8	slightly cl'dy	M. Labroue, Director.
Alençon, Normal School	29.13	739.8	29.68	753.8	55.4	13	88	w.			4		kn	n.	n.	0.063	1.6		M. Nicot, Director.
Arras, Engineer School	29.27	743.5	29.52	749.8	61.3	16.3	59	sw.			8		k		nw.	0.024	0.6		Capt. Bertrand, Dir.
Avginon, Normal School	29.80	756 8	29.87	758.8	70.9	21.6	45	sw.			1		5		s.	0	0	cloudy	M. Giraud, Director.
Bar-sur-Seine	29.21	742.0	29.76	755.8	62.8	17.1	46	s.			5		8		ssw.	0.263	7.2	very cloudy	M. Saillard, Director.
Beauvais, Normal School	29.34	745.3	29.60	751 8	60.8	16	69	sw.			3		8		sw.	0.016	0.4	very cloudy.	M. Frère Eugène Marl.
Besançon, Normal School	28.90	734.0	29.77	756.2	64.6	18.1	50	sw.			1	2 c	0	s.		0.846	21.5	slightly cl'dy	M. Gobin, Director.
Bordeaux, Observatory	29.65	753.1	29.91	759.7	57.2	14.0	60	w.			2		8		w.	0.102	2.6	very cloudy.	M. Rayet, Director.
Bourges, Normal School	29.25	743.0	29.87	758.8	59.7	15.4	54	ssw.			4		k		ssw.	0.059	1.5		M. Postel, Director.
Brest, Naval Observatory	29.47	748.4	29.71	754.6	51.1	10.6	80	w.			4		10		w.	0.228	5.8	raining	M. de Kermaree, Dir.
Caen, Normal School	29.49	749.0	29.56	750.8	56.1	13.4	69	ssw.			2		1c		ssw.	0.020	0.5	covered	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.35	745.5	29.66	753.4	59.5	15.3	58	s.			8		8	s.	sw.	0.331	8.4	very cloudy.	M. Jadot, Director.
Charleville, Normal School.	29.25	743.0	29.75	755.7	58.3	14.6	55	se.			1		8			0.354	9.0	¾ covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.53	724.7	29.88	758.9	56.5	13.6	56	s.			2		10			0.087	2.2	covered	M. Alluard, Director.
Cluny, Normal School	29.05	737.8	29.88	758.9	58.6	14.8	65	se.			2					0.012	0.3		M. de Villemontée, Dir.
Commercy, Normal School.	28.95	735.3	29.80	756.8	64.4	18	44	sw.			3	5 c		sw.	sw.	0.075	1.9	cloudy	Dr. Coulet, Director.
Gap, Normal School	27 37	695.2	29.84	757.9	62.6	17	70	nw.			2	0	3 n		s.	0	0		M. Jeangirard, Director.
Gréasque, du. Rhone	28.78	730.9	29.87	758.8	65.7	18.7	34	ne.			3		7		s.	0	0		M. Kina, Director.
Grenoble, Normal School	29.11	739.4	29.87	758.6	60.4	15.8	87	nw.			3		kn			0	0		M. Ablard, Director.
Guéret, Normal School	28.27	718.0	29.85	758.3	49.1	9.5	79	sw.			3		n		sw.	0.177	4.5		M. Rivoire, Director.
Lamballe, Normal School	29.33	744.9	29.60	751.7	54.3	12.4	72	w.			4		8		w.	0.193	4.9	very cloudy	M. Olliffrault, Director.
Lescar, Normal School	29.43	747.4	29.99	761.8	57.0	13.9	68	wnw.			3		8			0.181	4.6	very cloudy.	M. Chauvin, Director.
Lorient, Naval Observatory	29.62	752.4	29.72	755.0	54.5	12.5	87	w.			9		8	s.	w.	0.098	2.5	¾ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.86	733.0	29.90	759.5	59.0	15.0	46	wsw.			1		10		s.	0	0	covered	M. André, Director.
Mans, Normal School	29.35	745.6	29.66	753.4	54.5	12.5	74	se.			4		5		ne.	0.063	1.6	cloudy	M. Piboeu, Director.
Marseille, Observatory	29.63	752.7	29.90	759.4	66.9	19.4	41	se.			3		10		se.	0.559	14.2		M. Stephan, Director.
Montlouis l'Instituteur	24.69	627.2	29.54	750.2	39.2	4.0	83	nw.	5.6	2.5			10						M. Cave, for Dr. Fines.
Montpellier, Normal School	29.80	756.8	29.92	760.0	59.7	15.4	60	n.			3		5		ne.			light rain	M. Galzin, Director.
Nancy, Normal School	28.99	736.4	29.76	755.8	64.8	18.2	42	sse.			3	c	5 kn			0	0	cloudy	M. Basse, Director
Nantes, Observatory	29.61	752.2	29.78	756.3	54.5	12.5	68	wsw.			3		10 n		w.	0	0		M. Larocque, Director.
Perpignan, Observatory	29.87	758 8	29.98	761.6	50.7	10.4	91	ne.	5.6	2.5	2-3		10		nw.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.08	535.3			21.2	— 6.0		sw.			1		10		sw.	0.346	8.8	snowy	Gen'l de Nansouty, Dir.
Privas, Normal School	28.82	732.1	29.88	758.9	57.2	14	89	s.			1		10		s.	0	0	cloudy	M. Tallien.
Puy de Dôme Obs'y, Summit	24.98	634.6			35.6	2.0	95	sw.			4		10			0.024	0.6	covered	M. Allluard, Director.
Rochefort, Naval Obs'y	29.82	757.5	29.85	758.3	57.2	14.0	100	w.			6		10			0.016	0.4	raining	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.58	751.4	29.79	756 7	57.4	14.1	72	sw.			4		5	w.	w.	0	0	cloudy	M. Mouillot, Director.
Rodez, Normal School	27.84	707.2	30.00	762.1	48.2	9	86	e.			1		10			0.55	14.	covered	M. Serger, Director.
Rouen, Normal School	29.48	748.8	29.53	750.0	58.6	14.8	86	s.			4		8	w.	w.	0	0	very cloudy.	M. Brotier.
Saint Maur, Observatory	29.49	749.1	29.66	753.3	57.6	14.2	71	ssw.			6		10		sw.	0.004	0.1		M. Renou, Director.
Toulouse, Observatory	29.25	742.9	29.97	761.3	53.2	11.8	97	wnw.			2		10			0.051	1.3	covered	M. Baillaud, Director.
Versailles, Observatory	29.15	740.4	29.64	752.9	55.0	12.8	81	sw.			6					0.047	1.2		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.37	745.9	29.66	753.3	53.4	11.9	83	sw.			2		10		ssw.	0.083	2.1	raining	M. Marié Davy, Director
German.																			
Bamberg	28.94	735.1	29.79	756.6	64.4	18.0	40	s.			2	0	6 ks		s.	0	0		Prof. Dr. Hoh.
Berlin	29.53	750.0	29.70	754.3	74.8	23.8	31	se.			1		6			0	0		Prof. Dr. Arndt.
Breslau	29.33	745.0	29.85	758.4	70.0	21.1	34	s.			5		0			0	0		Royal University Obs'y.
Carlsruhe	29.36	745.8	29.79	756.6	66.2	19.0	40	sw.			9		10	sw.		0.020	0.5	rainy	Albert Senz.
Cassel	29.02	737.0	29.73	755.1	67.3	19.6	43	s.			2		6	s.		0.043	1.1		Dr. H. Möhl.
Frankfort on the Main	29.38	746.3	29.73	755.2	69.3	20.7	39	ssw.			3		7			0	0		Physical Society.
Friedrichshafen	28.43	722.0	29.82	757.4	65.1	18.4	61	sw.			2		9	sw.		0.051	1.3		Wilhelm, Chief Tel.
Hamburg	29.56	750.7	29.65	753.1	61.5	16.4	76	ssw.			5		10			0.012	0.3		E. Preller.
Kiel	29.61	752.1	29.63	752.5	59.0	15.0	78	ssw.			3		10			0	0		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.35	745.6	29.76	755.9	73.0	22.8	28	sw.			3		10			0	0		R. Leppig, Asst.
Magdeburg	29.53	750.0	29.71	754.6	68.2	20.1	43	sw.			3		7			0	0		Dr. Assmann.
Memel	29.92	760.0	29.97	761.2	61.0	16.1	53	ssw.			3		10 ks		sw.	0	0		Issermann.
Munich	28.04	712.2	29 89	759.3	66.4	19.1	36	n.			1	ck	7 8						Central Station.
Neufahrwasser	29.83	757.6	29.84	758.0	73.9	23.3	27	s.			1		7			0	0		A. Lothes.
Neustadt, Palatinate	29.22	742.2	29.74	755.4	68.5	20.3	40	s.			3		7	s.		0	0		Dicknether.
Stuttgart	28.87	733.4	29.74	755.3	67.6	19.8	34	sw.			5		5	s.		0	0		Prof. Dr. Schoder.
Wustrow	29.65	753.0	29.67	753.6	66.2	19.0	62	se.			1		8	w.		0.091	2.3		Profs. Brandes & Reimer.
Greek.																			
Athens	29.58	751.3	29.97	761.1	67.6	19.8		ne.			2		10 8			0	0		Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.72	754.8	29.77	756.1	84.0	28.9	76	wsw.	29.0	13.0	5.0	4				0	0		
Deesa	29.21	741.9	29.67	753.5	100.7	38.2	16	wnw.	6.0	2.7			0			0	0	misty	
Bombay	29.69	754.1	29.72	755.0	83.7	28.7	69	wnw.	17.0	7.6			0			0	0	blue sky	
Poona, Yarrowda	27.84	707.0	29.63	752.6	93.4	34.1	15	wnw.	10.0	4.5			0			0	0	blue sky	
Belgaum	27.20	691.0	29.69	754.2	83.5	28.6	46	ssw.	11.0	4.9			2	wnw.		0	0	d. clouds	
Lahore	28.94	735.2	29.66	753.4	93.1	33.9	11	calm	0.8	0.4			0			0	0	misty	
Roorkee	28.77	730.7	29.64	752.8	91.6	33.1	9	nw.	1.4	0.6			0			0	0	blue sky	
Agra	29.12	739.6	29.66	753.4	98.1	36.7	9	w.	7.1	3.2			0			0	0	blue sky	
Nagpur	28.56	725.4	29 55	750.6	101.5	38.6	12	wnw.	4.9	2.2			0			0	0		
Jubbulpore	28.30	718.8	29.60	751.9	97.0	36.1	12	nw.	2.9	1.3			3		w.	0	0	d. clouds	
Lucknow	29.29	744.0	29.65	753 2	96.0	35.6	21	calm	2.4	1.1			1			0	0	blue sky	
Allahabad	29.31	744.5	29.62	752.2	94.7	34.8	29	ne.	5.2	2.3			0			0	0	blue sky	
Patna	29.52	749.7	29.70	754.4	83.4	28.6	49	e.	7.5	3.4			2		w.	0	0	d. clouds	
Hazaribagh	27.66	702.4	29.62	752.2	87.8	31.0	32	ne.	10.7	4.8			6	e.	e.	0	0	d. clouds	
Cuttack	29.58	751.3	29.66	753.4	90.1	32.3	56	wsw.	1.0	0 4			8	e.	w.	0	0	thunder	
Calcutta, Alipore	29.64	752.9	29.66	753.4	86.5	30.3	58	ene.	5.0	2.2			8			0	0	d. clouds	
Dhubri	29.61	752.0	29.73	755 0	81.2	27.3	74	calm	0.9	3.1			8			0.11	2.8	d. clouds	
Chittagong	29.62	752.4	29.71	754.6	83.7	28.7	73	w.	3.1	1.4			4	w.		0	0	d. clouds	
Sibsagar	29.40	746.8	29.74	755.3	79.6	26.4	85	ne.	3.1	1.4			0			0	0	blue sky	
Jeypore	28.27	718.0	29.66	753.5	95.3	35.2	14	nw.	4.9	2.2			8	w.	w.	0.02	0.5	d. clouds	
Zanzibar, Africa	29.95	760.7			81.7	27.6	83	se.	4.8	2.1			0			0	0	blue sky	
Bellary	28.18	715.8			99.0	37.2	18	nw.	7.9	3.5			9		sse.	0.08	2.0	raining	
Trichinopoly	29.39	746.5			96.6	35.9	29	w.	2	0.9		6 ck	0			0	0	d. clouds	
Italian.																			
Udine	29.60	751.9	30.01	762.2	67.6	19.8	64	sw.	1.3	0.6			0			0	0	blue sky	
Milan	29.53	750.1	30.04	763.1	61.2	16.2	47	ne.	4.3	1.9			5			0	c		Prof. Giovanni Clodig.
Padua	29.90	759.5	30.01	762.3	67.5	19.7	37	ssw.	2.5	1.1			10	se.		0	0		Prof. Schiaparelli.
Moncalieri	29.11	739.5	30.01	762.3	55.4	13.0	70	nw.	4.3	1.9			10	w.		0	0		Prof. Dott. Lorenzoni.
Genoa	29.82	757.4	29.97	761.2	63.0	17.2	54	s.	3.8	1.7			10			0.335	8.5		Prof. P. F. Denza.
Mondovi	28.09	713.5	30.05	763.3	53.4	11.9	75	w.			6		6	ne.		0	0		Prof. G. M. Garibaldi.
													9			0	c		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
ITALIAN.—Continued.																			
Pesaro	29.95	760.8	30.00	762.0	61.9	16.6	56	e.	11.2	5.0	.....	.....	10	sw.	.....	0	0	.....	Prof. Luigi Guidi.
Florence	29.76	755.8	30.01	762.2	69.8	21.0	38	ne.	.....	.....	2	.....	10	.....	.....	0	0	.....	Prof. Costantino Pitter.
Leghorn	29.88	758.9	29.96	761.0	65.1	18.4	57	s.	1.3	0.6	.....	.....	10	.....	.....	0	0	.....	Prof. P. Monte.
Rome	29.86	758.5	30.04	762.9	70.0	21.1	41	W.	15.0	6.7	.....	.....	5	.....	.....	0	0	.....	Prof. P. S. Ferrari.
Lecce	29.77	756.2	30.02	762.5	64.4	18.0	51	wnw.	14.3	6.4	.....	.....	1	.....	.....	0	0	.....	Prof. C. de Giorgi.
Cosenza	29.15	740.3	30.03	762.7	66.9	19.4	76	sse.	3.1	1.4	.....	.....	4	se.	.....	0	0	.....	Prof. D. Conti.
Caglinri	29.78	756.4	29.97	761.3	66.9	19.4	57	se.	.....	.....	4	.....	0	.....	.....	0	0	.....	Prof. A. Pacinotti.
Palermo	29.80	757.0	30.05	763.3	66.9	19.4	53	ne.	4.9	2.2	.....	.....	1	.....	.....	0	0	.....	Prof. G. Ciacciatore.
Syracuse	29.97	761.3	30.02	762.4	68.5	20.3	62	wnw.	5.6	2.5	.....	.....	0	.....	.....	0	0	.....	Prof. Vincenzo Gulliano.
Sub-series.																			
Naples, S. R	29.51	749.6	30.02	762.6	66.2	19.0	64	ne.	0	0	.....	.....	1	.....	.....	0.031	0.8	.....	Prof. T. Brioschi.
Stelvio	22.12	561.8	.....	.....	36.5	2.5	80	sw.	.....	.....	4	.....	10	.....	.....	0.130	3.3	misty	Prof. P. F. Denza.
Valdobbia	22.15	562.5	.....	.....	34.7	1.5	74	e.	.....	.....	2	.....	10	.....	.....	0	0	covered	Prof. P. F. Denza.
JAPANESE.																			
Aomori	30.00	762.0	30.03	762.7	48.2	9.0	85	nnw.	2.7	1.2	.....	ck	10 s	.....	.....	0	0	covered	K. Ogawa.
Hakodate	30.02	762.5	30.03	762.7	42.0	5.6	85	calm	0	0	.....	0	0	.....	.....	0	0	clear	
Hiroshima, I. M. Obs'y	29.95	760.7	29.97	761.2	61.8	16.6	47	ne.	2.2	1.0	.....	0	0	.....	.....	0	0	clear	K. Sasaki.
Kanazawa	29.92	759.9	30.02	762.5	52.4	11.3	83	se.	4.7	2.1	.....	0	0	.....	.....	0	0	clear	S. Endo.
Kioto	29.82	757.4	29.99	761.7	60.7	15.9	63	s.	1.1	0.5	.....	ck	9 s	.....	.....	0	0	cloudy	M. Tojima.
Kochi	29.99	761.7	30.01	762.2	65.2	18.4	62	nw.	5.4	2.4	.....	.....	10 n	.....	sw.	0	0	light rain	
Nagasaki, I. M. Obs'y	29.81	757.2	30.01	762.2	63.1	17.3	50	n.	2.0	0.9	.....	ck	9 s	.....	.....	0	0	cloudy	S. Takehayashi.
Niigata	29.98	761.5	30.01	762.2	52.5	11.4	93	calm	0	0	.....	0	0	.....	.....	0	0	clear	
Nobiru	29.99	761.7	30.00	762.0	50.5	10.3	95	nnw.	8.3	3.7	.....	2 cs	0	.....	.....	0	0	fair	H. Midzushina.
Supporo	.....	.....	.....	.....	41.0	5.0	92	calm	0	0	.....	.....	5	.....	.....	0.005	0.1	fair	
Tokei Obs'y, Yeddo	29.92	759.9	29.99	761.7	60.0	15.6	93	ese.	3.0	1.3	.....	10 cs	0	wsw.	.....	0.030	0.8	cloudy	The Staff.
Wakayama	29.93	760.2	29.98	761.5	63.6	17.6	70	ne.	0.8	0.4	.....	8ck;cs	2 s	w.	wsw.	0	0	cloudy	Y. Kuwamuea.
MAURITIUS.																			
Mauritius Observatory	29.84	757.9	30.03	762.7	79.0	26.1	75	e.	16.0	7.2	.....	4cs;ck	4 ks;n	ssw.	ese.	0.30	7.6	cloudy	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.70	601.9	29.92	759.9	60.1	15.6	53	calm	0	0	.....	0	0	.....	.....	0	0	foggy	Vicente Fernandez.
Leon	24.42	620.3	30.08	764.0	60.1	15.6	64	nnw.	.....	.....	1	.....	fg	.....	.....	0	0	dense fog	Prof. M. Leal.
Mazatlan	29.70	754.4	29.97	761.1	61.5	16.4	97	wnw.	0.9	0.4	.....	3 cs	0	.....	.....	0	0	misty	F. Quijano, C. E.
Mexico, Central Obs'y	23.11	587.1	30.17	766.2	57.0	13.9	55	calm	0	0	.....	0	0	.....	.....	0	0	foggy	The Staff.
Morelia	24.34	618.2	30.48	774.1	61.3	16.3	74	se.	.....	.....	1	0	0	.....	.....	0	0	clear	M. Tena, M. D.
Pabellon, Aguascallentes	23.98	609.1	30.02	762.6	57.9	14.4	35	wnw.	.....	.....	1	3 c	0	sw.	.....	0	0	clear	M. Y. de Leon, M. E.
Puebla, Catholic Institute	23.41	594 5	30.13	765.2	55.8	13.2	75	calm	0	0	.....	.....	.....	.....	.....	0	0	.....	Prof. P. Spina.
San Luis Potosi	24.21	614.9	30.19	766.7	60.6	15.9	50	e.	.....	.....	1	3	0	w.	.....	0	0	foggy	G. Barroeta, M. D.
Zacatecas	22.58	573.4	30.22	767.5	54.8	12.7	56	w.	7.6	3.4	.....	0	0	.....	.....	0	0	fine	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.48	748.9	29.48	748.9	60.3	15.7	.....	ssw.	.....	.....	7	.....	.....	.....	.....	0	0	.....	
Groningen	29.50	749.2	29.55	750.6	61.2	16.2	.....	s.	.....	.....	5	.....	.....	.....	.....	0.303	7.7	.....	
Helder	29.46	748.2	29.46	748.2	58.6	14.8	.....	ssw.	.....	.....	5	.....	.....	.....	.....	0.012	0.3	.....	
Hellevoetsluis	29.48	748.8	29.48	748.8	61.0	16.1	59	sw.	.....	.....	4	.....	.....	.....	.....	0	0	.....	
Utrecht	29.49	749.1	29.54	750.3	62.8	17.1	54	s.	.....	.....	6	.....	5	.....	.....	0.043	1.1	cloudy	H. van der Briuk.
NORWEGIAN.																			
Bergen	29.38	746.2	29.44	747.8	56.5	13.6	58	s.	11	5	.....	.....	7	.....	.....	0.105	2.7	.....	
Brono	29.67	753.7	29.71	754.7	49.5	9.7	57	e.	9	4	.....	.....	5	.....	.....	0	0	.....	
Christiania	29.52	749.8	29.67	753.5	50.2	10.1	73	ese.	7	3	.....	.....	10	.....	.....	0.008	0.2	raining	
Gjæsvær	29.89	759.2	29.91	759.8	32.5	0.3	.....	sw.	.....	.....	2	.....	10	.....	.....	.....	.....	.....	
Lodingen	29.84	757.8	29.88	759.0	34.5	1.4	56	ne.	.....	.....	2	.....	0	.....	.....	.....	.....	.....	
PORTUGUESE.																			
Angra, Azores	.....	.....	.....	.....	61.9	16.6	69	nnw.	9.8	4.4	.....	.....	3	.....	.....	0	0	.....	Dr. J. A. Sampaio.
Campo Major	29.20	741.7	30.21	767.2	60.8	16.0	48	nw.	9.4	4.2	.....	.....	9	.....	.....	0.106	2.7	.....	Dr. A. M. R. dos Santos.
Funchal, Maderia	30.32	770.2	30.41	772.5	65.1	18.4	56	wsw.	.....	.....	.....	.....	8	.....	.....	0	0	.....	Capt. D. A. de Cunha.
Lisbon, Observatory	29.95	760.6	30.31	769.9	58.6	14.8	53	wnw.	18.1	8.1	.....	.....	6	.....	.....	0.039	1.0	.....	The Staff.
Ponta Delgada, Azores	30.50	774.7	30.57	776.5	65.8	18.8	47	sw.	3.1	1.4	.....	.....	5	.....	.....	0	0	.....	
Saint Paul de Loando	29.73	755.2	29.93	760.3	80.1	26.7	92	nnw.	0.7	0.3	.....	.....	7	s.	.....	0	0	.....	
Serra da Estrella	25.30	642.7	30.20	767.1	33.8	1.0	100	nw.	35.3	15.8	.....	.....	10	.....	.....	3.650	92.7	fog & sleet	
RUSSIAN.																			
Akmolinski	28.95	735.2	30.08	764.0	27.1	— 2.7	64	nnw.	7	3	.....	0	0	.....	.....	0	0	.....	Major K. Lasarew.
Archangel	30.15	765.7	30.17	766.2	20.5	— 6.4	87	wnw.	4	2	.....	0	0	.....	.....	0	0	.....	Capt. Sselliwerstow.
Astrakhan	30.03	762.8	29.95	760.7	45.7	7.6	57	ese.	11	5	.....	.....	10 s	.....	.....	0	0	.....	Capt. Wisganow.
Barnaul	29.61	752.1	30.13	765.4	30.9	— 0.6	62	calm	0	0	.....	.....	1	.....	.....	0	0	light clouds	Meteorological Obs'y.
Dorpat	29.79	756.7	30.04	763.0	47.7	8.7	52	ne.	7	3	.....	0	2 k	.....	.....	0	0	.....	Observatory.
Ekaterinburg	28.87	733.3	29.85	758.1	39.4	4.1	65	wsw.	20	9	.....	5 c;ck	0	.....	.....	0	0	.....	Meteorological Obs'y.
Kasan	29.65	753.1	29.93	760.1	43.9	6.6	78	s.	2	1	.....	.....	10	.....	.....	0	0	.....	Observatory.
Kertch	29.87	758.7	29.89	759.2	49.1	9.5	76	wnw.	13	6	.....	.....	9 n	.....	.....	0	0	.....	Lagorio & Sastyrex.
Kieff	29.23	742.4	29.85	758.1	64.2	17.9	23	n.	9	4	.....	4 c;cs	0	.....	.....	0	0	light clouds	Observatory.
Lugan	29.70	754.4	29.91	759.6	46.2	7.9	69	ssw.	2	1	.....	.....	10	.....	.....	0.154	3.9	.....	Meteorological Obs'y
Moscow	29.25	743.0	29.73	755.1	47.8	8.8	76	s.	4	2	.....	.....	9 ks	.....	.....	0.134	3.4	raining	Meteorological Obs'y.
Nikolaiev	29.89	759.2	29.96	761.0	67.3	19.6	53	n.	9	4	.....	0	5 kn	.....	.....	0	0	.....	Capt. Kurdakow.
Nikolaievsk, on the Amoor	29.71	754.6	29.80	756.8	29.1	— 1.6	64	calm	0	0	.....	.....	0	.....	.....	0	0	.....	Lieut. Iwanow.
Pekin, China	29.91	759.8	30.06	763 4	64.8	18.2	34	sw.	7	3	.....	2 c	0	.....	.....	0	0	.....	Physical Observatory
St. Petersburg	30.07	763.7	30.08	764.1	37.4	3.0	57	ne.	7	3	.....	.....	10 kn	.....	.....	0	0	.....	Central Physical Obs'y
Ssemipalatinsk	29.38	776.2	30.06	763.5	36.0	2.2	61	calm	0	0	.....	.....	10	.....	.....	0	0	.....	Major Lasaren.
Tashkend, Laboratory	28.49	723.6	30.04	763.1	61.5	16.4	76	nw.	4	2	.....	.....	8	.....	.....	0.016	0.4	.....	Teich, A. M.
Tiflis	28.38	720.8	29.78	756.3	58.8	14.9	64	se.	2	1	.....	.....	10 n	.....	.....	0.413	10.5	.....	Physical Observatory
Vladivostok	30.10	764.4	30.16	766.1	38.7	3.7	64	calm	0	0	.....	0	0	.....	.....	0	0	.....	
Warsaw	29.50	749.2	29.91	759.6	69.3	20.7	31	s.	11	5	.....	8cs;ck	0	.....	.....	.....	.....	solar corona	Astronomical Obs'y
Wilna	29.55	750.5	29.96	761.0	61.0	16.1	35	wsw.	2	1	.....	.....	3	.....	.....	0	0	light clouds	Berg, Assistant.
Yeniseisk	29.80	757.0	30.10	764.6	32.4	0.2	61	s.	7	3	.....	.....	2	.....	.....	0	0	.....	M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	29.83	757.7	29.93	760.3	66.2	19	79	e.	2.7	1.2	.....	.....	9	.....	.....	.....	.....	hailing	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.00	762.0	30.06	763.5	64.4	18.0	54	nw.	6.0	2.7	.....	3	5	nw.	.....	0	0	almost cov'd	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.95	687.0	30.02	762.5	54.5	12.5	35	sw.	13.6	6.1	.....	.....	4	.....	.....	0	0	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27.84	707.0	30.06	763.5	58.8	14.9	42	W.	19.9	8.9	.....	.....	9	.....	.....	inap.	inap.	almost cov'd	The Staff.
Murcia, Met. Obs'y	29.90	759.4	30.04	763.1	72.5	22.5	38	nw.	7.4	3.3	.....	4	3	ne.	.....	0	0	cloudy	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.20	741.7	30.10	764.6	55.8	13.2	80	W.	20.6	9.2	.....	.....	4	.....	.....	0.634	16.1	cloudy	R. Gil Vallanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I	29.93	760.2	29.99	761.8	76.9	24.9	81	calm	0	0	.....	0	1 k	.....	.....	0	0	fair	Benito Vines, S. J.
Manilla, Philippine Islands	29.82	757.5	29.88	758.9	85.2	29.6	62	se.	5.5	2.5	.....	0	7 ck	.....	e.	0	0	fair	F. Faura, S. J.
San Fernando, Naval Obs'y	30.19	766.8	30.29	769.3	63.9	17.7	56	W.	4.9	2.2	.....	0	3	.....	W.	0	0	.....	Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	30.02	762.6	30.11	764.9	73.8	23.2	85	calm	0	0	.....	3 s	8 kn	se.	se.	0	0	cloudy	Manuel Maeu.
Tuguegarao, Philippine Id's	29.81	757.2	29.94	760.5	78.0	25.6	78	sw.	9.2	4.1	.....	.....	10 kn	.....	sse.	inap.	inap.	covered	José L. Yrastorza.
SWEDISH																			
Haparanda	30.02	762.4	30.06	763.4	34.5	1.4	78	s.	.....	.....	2	.....	2	.....	.....	0.110	2.8	.....	
Umea	30.02	762.6	30.08	763.9	36.0	2.2	68	sw.	.....	.....	2	.....	10	.....	.....	0	0	.....	
Hernosand	29.94	760.5	29.99	761.8	36.1	2.3	80	sse.	.....	.....	2	.....	10	.....	.....	0	0	.....	
Stockholm	29.78	756.5	29.96	761.0	48.2	9.0	46	se.	.....	.....	4	.....	10	.....	.....	0	0	.....	
Wisby	29.83	755.7	29.89	759.2	53.2	11.8	65	sse.	.....	.....	4	.....	5	.....	.....	0	0	.....	
Sub-series.																			
Upsala	29.84	758.0	29.93	760.2	47.7	8.7	50	ese.	12.1	5.4	.....	.....	10	W.	.....	0.039	1.0	.....	S. G. Fineman.
SWISS.																			
Geneva	28.47	723.1	29.87	758.7	63.0	17.2	44	ssw.	.....	.....	4	.....	.....	.....	.....	0.012	0.3	cloudy	The Observatory

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
TURKISH.																			
Constantinople	.....	.....	30.00	761.9	55.8	13.2	52	nne.	19	8.5	.....	.....	1	.....	ne.	0	0	.....	The Observatory.
Valona	.....	.....	30.09	764.3	66.6	19.2	.....	w.	.....	.....	1	.....	2	.....	.....	0	0	slightly cl'dy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	29.72	754.9	66.0	18.9	80	sw.	.....	.....	3	0	7 n	.....	sw.	0.45	11.4	....	Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	29.82	757.4	29.90	759.4	40	4.4	40	w.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. C. Barnes.
Alpena, Michigan	29.49	749.0	30.18	766.6	31	— 0.6	57	e.	16	7.2	.....	0	1 8	.....	.....	0	0	clear	Jas. J. Fitzgerald.
Atlanta, Georgia	28.55	725.2	29.74	755.4	63.5	17.5	80	w.	8	3.6	.....	0	0	.....	.....	2.37	60.2	clear	H. Hall.
Atlantic City, New Jersey	29.80	758.4	29.87	758.7	44	6.7	60	ne.	13	5.8	.....	10 ck	0	.....	.....	0	0	cloudy	Jas. M. Watson.
Augusta, Georgia	29.51	749.5	29.70	754.4	68.5	20.3	87	sw.	4	1.8	.....	2 k	0	nw.	.....	3.26	82.8	clear	John Healy.
Baltimore, Maryland	29.85	758.2	29.90	759.4	46	7.8	54	e.	4	1.8	.....	.....	10 8	.....	w.	0.04	1.0	cloudy	Robert Seyboth.
Barnegat, New Jersey	29.86	758.4	29.88	758.9	44.0	6.7	58	ne.	6	2.7	.....	.....	10 8	.....	w.	0	0	cloudy	Chas. F. Merritt.
Bismarck, Dakota	28.10	713.7	29.97	761.2	36	2.2	92	s.	16	7.2	.....	.....	10 8	.....	se.	inap.	inap.	cloudy	Cyrus Cramer.
Boise City, Idaho	27.16	689.9	30.00	762.0	34	1.1	66	w.	6	2.7	.....	.....	10 8	.....	calm	0.62	15.7	cloudy	B. E. Light.
Boston, Massachusetts	29.68	753.9	29.84	757.9	36.0	2.2	46	nw.	19	8.5	.....	4 k	0	nw.	.....	0	0	fair	O. B. Oole.
Brownsville, Texas	29.90	759.4	29.95	760.7	62	16.7	93	calm	0	0	.....	2 cs	0	.....	.....	0	0	clear	J. C. Galloway.
Buffalo, New York	29.23	742.4	30.00	762.0	34.8	1.6	52	ne.	9	4.0	.....	2 cs	0	.....	.....	0	0	clear	Wm. Finn.
Burlington, Vermont	29.59	751.6	29.89	759.2	30.5	— 0.8	67	n.	15	6.7	.....	5 ck	5 8	n.	n.	0.01	0.3	cloudy	G. C. Schaeffer.
Cairo, Illinois	29.26	743.2	29.67	753.6	54.6	12.6	70	w.	11	4.9	.....	.....	10 8	.....	w.	0.32	8.1	cloudy	W. H. Ray.
Campo, California	27.42	696.5	30.00	762.0	32.4	0.2	81	nw.	4	1.8	.....	0	0	.....	.....	0	0	clear	W. H. Clendenon.
Camp Thomas, Arizona	27.20	690.9	29.93	760.2	41	5.0	52	calm	.....	.....	0	0	0	.....	.....	0	0	clear	J. T. Fitzgerald.
Cape Henry, Virginia	29.76	755.9	29.78	756.4	48	8.9	86	ne.	34	15.2	.....	.....	10 n	.....	ne.	0.84	21.3	light rain	J. E. Lanouette.
Cape May, New Jersey	29.79	756.7	29.82	757.4	46	7.8	60	ne.	10	4.5	.....	.....	10 ks	.....	nw.	0	0	cloudy	W. Bolten.
Cedar Keys, Florida	29.83	757.7	29.85	758.2	77	25.0	85	sw.	29	13.0	.....	.....	10 8	.....	sw.	0	0	cloudy	F. W. Mixer.
Champaign, Illinois	28.83	732.3	29.67	753.6	41.5	5.3	91	ne.	17	7.6	.....	.....	10 n	.....	ne.	0.84	21.3	light rain	L. A. Welsh.
Charleston, S. Carolina	29.60	751.8	29.66	753.4	68	20.0	90	sw.	10	4.5	.....	0	9 8	.....	sw.	1.45	36.8	cloudy	J. H. Smith.
Charlotte, N. Carolina	28.76	730.5	29.62	752.3	55.0	12.8	93	n.	8	3.6	.....	.....	10 8	.....	ne.	2.38	60.5	cloudy	D. O. Donoghue.
Chattanooga, Tennessee	28.87	733.3	29.70	754.4	62.0	16.7	75	sw.	4	1.8	.....	1 k	0	sw.	.....	2.37	60.2	clear	B. L. Goulding.
Cheyenne, Wyoming	23.85	605.8	29.85	758.2	32.2	0.1	47	sw.	5	2.2	.....	0	0	.....	.....	0	0	clear	E. McGovern.
Chicago, Illinois	29.14	740.1	29.87	758.7	40.1	4.5	57	e.	20	8.9	.....	10 k	0	e.	.....	1.58	40.1	cloudy	J. Mitchell.
Chincoteague, Virginia	29.67	753.6	29.69	754.1	45	7.2	100	ne.	8	3.6	.....	.....	10 n	.....	ne.	0.07	1.8	light rain	V. P. Temple.
Cincinnati, Ohio	29.00	736.6	29.67	753.6	47	8.3	86	ne.	3	1.3	.....	.....	10 n	.....	.....	0.52	13.2	light rain	R. B. Watkins.
Cleveland, Ohio	29.10	739.1	29.86	758.4	38.8	3.8	48	ne.	12	5.4	.....	5 c	5 8	w.	e.	0	0	cloudy	J. B. Newlin.
Coleman City, Texas	28.14	714.7	29.96	761.0	44	6.7	80	e.	1	0.4	.....	0	0	.....	.....	0	0	clear	L. Dorman.
Columbus, Ohio	28.84	732.5	29.71	754.6	42	5.6	92	ne.	3	1.3	.....	.....	10 n	.....	e.	1.22	31.0	light rain	D. Cuthbertson.
Concho, Texas	27.99	710.9	29.93	760.2	49	9.4	46	s.	10	4.5	.....	0	0	.....	.....	0	0	clear	W. W. McConihe.
Davenport, Iowa	29.17	740.9	29.84	757.9	39	3.9	73	ne.	16	7.2	.....	.....	10 ks	.....	ne.	0.62	15.7	cloudy	R. R. Martin.
Dayton, Washington T'y	28.16	715.3	29.91	759.7	31.8	— 0.1	93	sw.	8	3.6	.....	.....	10 8	.....	sw.	0.80	20.3	cloudy	H. Clifford.
Deadwood, Dakota	25.07	636.8	29.76	755.9	41	5.0	62	n.	6	2.7	.....	3 c	0	w.	.....	inap.	inap.	clear	G. W. Scott.
Decatur, Texas	.....	.....	.....	.....	59	15.0	65	nw.	10	4.5	.....	0	0	.....	.....	0	0	clear	D. J. Carr.
Delaware Breakwater, Del.	29.85	758.2	29.87	758.7	45	7.2	83	ne.	30	13.4	.....	.....	9 8	.....	ne.	0.04	1.0	cloudy	A. Schneider.
Denison, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. McGlone.
Denver, Colorado	24.58	624.3	29.85	758.2	38.0	3.3	58	s.	3	1.3	.....	1 c	0	calm	.....	0	0	clear	F. M. Neal.
Des Moines, Iowa	28.99	736.3	29.92	760.0	38	3.3	82	e.	16	7.2	.....	.....	10 8	.....	e.	0.19	4.8	cloudy	F. W. Conrad.
Detroit, Michigan	29.23	742.4	29.96	761.0	39.2	4.0	46	ne.	25	11.2	.....	10 cs	0	w.	.....	0	0	cloudy	C. F. R. Wappenhans.
Dodge City, Kansas	27.34	694.4	29.98	761.5	30	— 1.1	71	nw.	5	2.2	.....	0	0	.....	.....	0	0	clear	E. A. Thomas.
Dubuque, Iowa	29.16	740.7	29.89	759.2	37.2	2.9	75	ne.	17	7.6	.....	.....	10 8	.....	calm	0.65	16.5	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.48	748.8	30.20	767.1	35	1.7	69	ne.	19	8.5	.....	.....	10 8	.....	calm	0	0	cloudy	N. B. Conger.
Eagle Pass, Texas	29.17	740.9	29.98	761.5	53.1	11.7	61	calm	0	0	.....	0	0	.....	.....	0	0	clear	F. Belford.
Eagle Rock, Idaho	25.15	638.8	29.87	758.7	34	1.1	82	sw.	16	7.2	.....	.....	10 8	.....	.....	0.33	8.4	cloudy	J. M. Clifford.
Eastport, Maine	29.58	751.3	29.65	753.1	31.5	— 0.3	74	nw.	15	6.7	.....	.....	10 8	.....	nw.	0	0	cloudy	J. H. Melton.
El Paso, Texas	26.22	666.0	29.96	761.0	44	6.7	34	nw.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.18	741.2	29.93	760.2	40	4.4	57	e.	7	3.1	.....	8 cs	0	.....	.....	0	0	cloudy	R. H. Paxton.
Escanaba, Michigan	29.49	749.0	30.18	766.6	35	1.7	53	ne.	12	5.4	.....	3 cs	0	.....	.....	0	0	clear	C. Dill.
Florence, Arizona	28.44	722.4	29.94	760.5	42.5	5.8	50	sw.	3	1.3	.....	0	0	.....	.....	0	0	clear	R. R. Herman.
Fort Apache, Arizona	25.05	636.3	29.97	761.2	27	— 2.8	70	ne.	3	1.3	.....	0	0	.....	.....	0	0	clear	W. O. Barnes.
Fort Assinnaboine, Montana	26.82	681.2	29.72	754.9	41	5.8	76	s.	4	1.8	.....	1 c	8 8	sw.	sw.	0	0	cloudy	B. O. Lenoir.
Fort Bennett, Dakota	28.35	720.1	29.99	761.7	37	2.0	82	se.	10	4.5	.....	.....	10 8	.....	.....	0.02	0.5	cloudy	T. Gibson.
Fort Benton, Montana	26.90	683.2	29.76	755.9	39	3.9	50	sw.	20	8.9	.....	3 k	0	calm	.....	0	0	clear	S. Wheaton.
Fort Buford, Dakota	27.96	710.2	30.03	762.7	36	2.2	82	se.	14	6.3	.....	.....	10 8	.....	calm	0	0	cloudy	A. H. Bell.
Fort Custer, Montana	26.46	672.1	29.64	752.8	45	7.2	63	w.	4	1.8	.....	.....	10 8	.....	calm	0	0	cloudy	V. Verge.
Fort Davis, Texas	25.12	638.0	29.90	759.4	43	6.1	37	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. Williams.
Fort Elliott, Texas	27.25	692.1	30.03	762.7	33	0.6	54	nw.	4	1.8	.....	0	0	.....	.....	0	0	clear	W. J. Cundall.
Fort Gibson, Indian T'y	29.32	744.7	29.90	759.4	47.2	8.4	69	w.	8	3.6	.....	.....	10 8	.....	n.	inap.	inap.	cloudy	J. B. Campbell.
Fort Grant, Arizona	25.25	641.3	29.98	761.5	43	6.1	43	e.	2	0.9	.....	0	0	.....	.....	0	0	clear	T. J. Macgowan.
Fort Keogh, Montana	27.17	690.1	29.71	754.6	37	2.8	82	se.	4	1.8	.....	9 c	0	se.	.....	0	0	cloudy	W. B. Stockman.
Fort Macon, North Carolina	29.62	752.3	29.62	752.3	65	18.3	90	nw.	7	3.1	.....	10 cs	0	nw.	.....	1.15	29.2	cloudy	L. Leonardy.
Fort McKavett, Texas	27.73	704.3	29.99	761.7	53	11.7	74	sw.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. E. Thatcher.
Fort Missoula, Montana	26.47	672.3	29.78	756.4	32	0.0	88	sw.	2	0.9	.....	.....	10 ks	.....	se.	inap.	inap.	threatening	J. H. Jones.
Fort St. Michaels, Alaska	30.38	771.6	30.41	772.4	6	—14.4	100	sw.	2	0.9	.....	0	0	.....	.....	0	0	clear	A. P. Leavitt.
Fort Shaw, Montana	26.05	661.7	29.72	754.9	33	0.6	54	sw.	20	8.9	.....	0	0	.....	.....	0	0	clear	A. L. Mathews.
Fort Sill, Indian Territory	28.74	730.0	29.98	761.5	42.5	5.8	76	n.	4	1.8	.....	0	0	.....	.....	0	0	clear	T. Cleary.
Fort Stevenson, Dakota	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. Burrows
Fort Verde, Arizona	.....	.....	.....	.....	40.2	4.6	42	s.	.....	.....	1	0	0	.....	.....	0	0	clear	D. Brooks.
Fort Washakie, Wyoming	24.18	614.2	.....	.....	39.0	3.9	76	nw.	14	6.3	.....	4 k	0	w.	.....	0	0	fair	T. M. Ambler.
Fredericksburg, Texas	28.21	716.5	29.93	760.2	49	9.4	86	nw.	2	0.9	.....	0	0	.....	.....	0	0	clear	H. S. Miles.
Galveston, Texas	29.90	759.4	29.94	760.5	66	18.9	64	nw.	4	1.8	.....	0	0	.....	.....	0	0	clear	E. O'C. Macinernev.
Grand Haven, Michigan	29.29	744.0	29.98	761.5	37.0	2.8	46	ne.	16	7.2	.....	4 c	2 8	ne.	.....	c.02	0.5	clear	W. A. Reid.
Hatteras, North Carolina	29.66	753.4	29.68	753.9	60	15.6	93	n.	12	5.4	.....	.....	10 8	.....	nw.	1.40	35.6	cloudy	R. M. Crawford.
Helena, Montana	25.63	651.0	29.89	759.2	32	0.0	71	w.	6	2.7	.....	0	0	.....	.....	0	0	clear	N. C. Smith.
Henrietta, Texas	28.99	736.3	30.02	762.5	50.0	10.0	71	ne.	6	2.7	.....	0	0	.....	.....	0	0	clear	J. W. Byram.
Huron, Dakota	28.60	726.4	30.05	763.3	38	3.3	79	se.	1	0.4	.....	.....	10 ks	.....	se.	0.65	16.5	cloudy	S. W. Glenn.
Indianapolis, Indiana	28.84	732.5	29.66	753.4	42.5	5.8	84	s.	6	2.7	.....	.....	10 8	.....	e.	1.76	44.7	cloudy	O. Schutze
Indianola, Texas	29.92	760.0	29.96	761.0	66.5	19.2	78	se.	7	3.1	.....	2 c	hz.	w.	.....	0	0	clear	I. A. Reed.
Jacksboro, Texas	28.80	731.5	29.98	761.5	50.0	10.0	72	ne.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. P. Sherry.
Jacksonville, Florida	29.72	754.9	29.76	755.9	79	26.1	74	sw.	28	12.5	.....	.....	10 8	.....	sw.	0	0	cloudy	J. W. Smith.
Keokuk, Iowa	29.06	738.1	29.73	755.1	39.0	3.9	100	n.	8	3.6	.....	.....	10 n	.....	n.	1.04	26.4	light rain	F. Z. Gosewisch
Key West, Florida	29.98	761.5	30.00	762.0	80	26.7	79	sw.	16	7.2	.....	0	0	.....	.....	0	0	clear	L. M. Melbourne.
Kittyhawk, North Carolina	29.67	753.6	29.69	754.1	47	8.3	86	e.	35	15.6	.....	.....	10 8	.....	e.	1.23	31.2	cloudy	E. A. Beals.
Knoxville, Tennessee	28.64	727.4	29.68	753.9	57.4	14.1	95	w.	5	2.2	.....	.....	9 8	.....	w.	0.90	22.9	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.18	741.2	29.98	761.5	43	6.1	36	ne.	16	7.2	.....	0	9 8	.....	.....	0.12	3.0	cloudy	S. C. Emery.
La Mesilla, New Mexico	26.06	661.9	29.94	760.5	38.0	3.3	41	calm	0	0	.....	0	0	.....	.....	0	0	clear	N. D. Lane.
Leavenworth, Kansas	28.98	736.1	29.89	759.2	42	5.6	74	n.	12	5.4	.....	.....	10 8	.....	n.	0.68	17.3	cloudy	A. W. Browne.
Lewiston, Idaho	29.06	738.1	29.91	759.7	38.6	3.7	55	sw.	1	0.4	.....	.....	10 8	.....	.....	0.07	1.8	cloudy	W. Blake.
Little Rock, Arkansas	29.47	748.5	29.79	756.7	53	11.7	69	nw.	10	4.5	.....	0	0	.....	.....	0	0	clear	W. U. Simmons.
Los Angeles, California	29.68	753.9	30.08	764.0	47.5	8.6	77	calm	0	0	.....	0	2 8	.....	calm	0	0	clear	E. F. Kubel.
Louisville, Kentucky	29.03	737.3	29.60	751.8	52	11.1	86	n.	3	1.3	.....	8 k	1 8;8k	w.	.....	0.23	5.8	cloudy	H. C. Smyth.
Lynchburg, Virginia	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.79	20.1	.....	W. R. Bushby.
Madison, Wisconsin	28.92	734.6	29.96	761.0	37	2.8	72	ne.	14	6.3	.....	8 cs	0	ne.	.....	0.04	1.0	cloudy	O. A. Shaw.
Marquette, Michigan	29.48	748.8	30.23	767.8	36	2.2	61	e.	14	6.3	.....	0	0	.....	.....	0	0	clear	J. Gilligan.
Mason, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	P. M. Wilson.
Memphis, Tennessee	29.37	746.0	29.71	754.6	57	13.9	57	sw.	8	3.6	.....	0	2 8	.....	nw.	0.62	15.7	clear	D. T. Flannery.
Milwaukee, Wisconsin	29.20	741.7	29.97	761.2	39	3.9	65	n.	26	11.6	.....	6 c	0	ne.	.....	0	0	fair	W. Line.
Mobile, Alabama	29.83	757.7	29.87	758.7	62	16.7	65	w.	5	2.2	.....	0	0	.....	.....	0.11	2.8	clear	J. D. Paxton.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Montgomery, Alabama	29.57	751.1	29.79	756.7	62.6	17.0	74	sw.	5	2.2		0	0			0.93	23.6	clear	J. B. McLaughlin.
Moorhead, Minnesota	29.05	737.9	30.08	764.0	38	3.3	89	se.	3	1.3			10 s		s.	0.16	4.1	cloudy	H. Bessant.
Morgantown, W. Virginia	28.71	729.2	29.75	755.6	45.0	7.2	60	ne.	14	6.3			10 s		ne.	0.15	3.8	cloudy	G. C. Lewis.
Mt. Washington, N. H.	23.24	590.3	29.65	753.1	3.0	—16.1	87	nw.	66	18.9			fg.		nw.	0.64	16.3	light fog	J. G. Linsley.
Nashville, Tennessee	29.07	738.4	29.61	752.1	58.0	14.4	78	s.	3	1.3		0	9 ks		sw.	1.00	25.4	cloudy	L. A. Jesunofsky.
New Haven, Connecticut	29.75	755.6	29.87	758.7	36	2.2	46	nw.	10	4.5		0	0			0	0	clear	J. H. Sherman.
New London, Connecticut	29.81	757.2	29.86	758.4	40	4.4	57	n.	6	2.7		0	0			0	0	clear	J. G. Lynch.
New Orleans, Louisiana	29.85	758.2	29.91	759.7	65.4	18.6	63	sw.	6	2.7		0	0			0.37	9.4	clear	S. Dunne.
Newport, Rhode Island	29.81	757.2	29.86	758.4	38.8	3.8	42	nw.	11	4.9		0	0			0	0	clear	W. McGillivray.
New River, N. Carolina					66	18.9	79	w.			1		10 s			1.22	31.0	cloudy	C. C. Corbin.
New Shoreham, Rhode I'd	29.82	757.4	29.85	758.2	39.0	3.9	46	nw.	22	9.8		2 c	0		nw.	0	0	clear	W. Davis.
New York, New York	29.74	755.4	29.92	760.0	41	5.0	57	n.	7	3.1		3 cs	0	w.		0	0	clear	E. B. Garriott.
Norfolk, Virginia	29.73	755.1	29.76	755.9	47	8.3	93	e.	7	3.1			10 s		ne.	0.72	18.3	threatening	J. T. Elker.
North Platte, Nebraska	27.03	686.5	29.99	761.7	32.6	0.4	83	n.	4	1.8		0	0			inap.	inap.	clear	E. F. Brady.
Olympia, Washington T'y	29.84	757.9	29.88	758.9	35.0	1.7	89	s.	8	3.6			10 s		calm	0.02	0.5	cloudy	J. Dascomb.
Omaha, Nebraska	28.78	731.0	29.99	761.7	40.0	4.4	70	n.	12	5.4		10 cs	0	n.		0.84	21.3	cloudy	A. Pollak.
Ooglaamie, Pt. Barrow, Alas.	30.13	765.3	30.15	765.8	—10.2	—23.4	87	wnw.	10	4.5		0	0			0.01	0.3	clear	P. H. Ray.
Oswego, New York	29.65	753.1	29.99	761.7	32.0	0.0	60	ne.	20	8.9		0	0			0	0	clear	S. W. Beall.
Palestine, Texas	29.40	746.7	29.96	761.0	56.5	13.6	57	nw.	4	1.8		0	0			0	0	clear	L. M. Pindell.
Pensacola, Florida	29.83	757.7	29.86	758.4	66.7	19.3	59	nw.	3	1.3		0	0			inap.	inap.	clear	M. McGauran,
Philadelphia, Pa	29.82	757.4	29.92	760.0	43	6.1	60	ne.	8	3.6		9 cs	0	ne.		0	0	cloudy	T. F. Townsend.
Pike's Peak, Colorado	17.62	447.5	29.90	759.4	14	—10.0	87	w.	35	15.6		0	0			0	0	clear	L. M. Dey.
Ploche, Nevada	23.84	605.5	29.83	757.7	40.4	4.7	39	s.	4	1.8		10 cs	0	w.		0	0	cloudy	C. N. Kitchel.
Pittsburg, Pennsylvania	28.98	736.1	29.81	757.2	42.4	5.8	46	ne.	12	5.4			10 s		e.	inap.	inap.	cloudy	J. H. Bryce.
Port Eads, Louisiana	29.90	759.4	29.90	759.4	64.5	18.1	70	nw.	8	3.6		0	0			0	0	clear	H. G. Christian.
Port Huron, Michigan	29.29	744.0	29.99	761.7	34.2	1.2	82	ne.	20	8.9		7 c	0	n.		0	0	fair	W. O. Bailey.
Portland, Maine	29.72	754.9	29.78	756.4	36.0	2.2	46	nw.	14	6.3		3 k	0	nw.		0	0	clear	D. C. Murphy.
Portland, Oregon	29.90	759.4	29.97	761.2	37.0	2.8	82	s.	12	5.4		4 cs	4 s	sw.	s.	0.04	1.0	cloudy	M. L. Hearne.
Portsmouth, N. Carolina					57	13.9	93	ne.	20	8.9			10 ks		ne.	1.88	47.8	cloudy	F. P. Chaffee.
Prescott, Arizona	24.72	627.9	29.94	760.5	43	6.1	24	w.	4	1.8		0	0			0	0	clear	J. McN. Wright.
Provincetown, Mass	29.79	756.7	29.82	757.4	37	2.8	61	nw.	20	8.9		3 k	0	nw.		0	0	clear	P. T. Jenkins.
Punta Rassa, Florida*	29.91	759.7	29.92	760.0	80	26.7	80	sw.	30	13.4		0	3 k		sw.	0	0	clear	W. J. Evans.
Red Bluff, California	29.70	754.4	30.07	763.8	38.7	3.7	71	n.	4	1.8		0	0			0.71	18.0	clear	J. M. Frantz.
Rio Grande City, Texas	29.70	754.4	29.94	760.5	57	13.9	74	se.	4	1.8		0	0			0	0	clear	W. H. Taylor.
Rochester, New York	29.31	744.5	30.00	762.0	35	1.7	69	ne.	10	4.5		0	0			0	0	clear	A. T. Sherwood.
Roseburg, Oregon	29.50	749.3	30.06	763.5	33.8	1.0	89	s.	2	0.9		0	0			0.16	4.1	clear	J. J. Nanry.
Sacramento, California	30.00	762.0	30.08	764.0	44.4	6.9	60	nw.	5	2.2		0	0			0.16	4.1	clear	J. A. Barwick.
St. Louis, Missouri	29.05	737.9	29.66	753.4	48.0	8.9	100	n.	5	2.2			10n;fg			1.57	39.9	light rain	J. H. Webber.
St. Paul, Minnesota	29.15	740.4	30.04	763.0	39.0	3.9	65	n.	6	2.7		6 ck	0	n.		0.12	3.0	fair	P. F. Lyons.
St. Vincent, Minnesota	29.20	741.7	30.10	764.5	36	2.2	69	e.	8	3.6			10 ks		se.	0	0	cloudy	G. Kingsbury.
Salt Lake City, Utah	25.44	646.2	29.81	757.2	43	6.1	53	nw.	13	5.8			10 ks		w.	0	0	threatening	J. Craig.
San Antonio, Texas	29.26	743.2	29.96	761.0	49.6	9.8	77	calm	0	0		0	0			0	0	clear	E. Lane.
San Diego, California	29.94	760.5	30.01	762.2	51.4	10.8	92	ne.	4	1.8		3 cs	7 s			0	0	cloudy	A. C. Dobbins.
Sandusky, Ohio	29.13	739.9	29.83	757.7	41	5.0	73	ne.	39	17.4			10 s			0	0	cloudy	M. H. Perry.
Sandy Hook, New Jersey	29.87	758.7	29.91	759.7	41.0	5.0	57	ne.	15	6.7		10 k	0	ne.		0	0	cloudy	B. A. Blundon.
San Francisco, California	30.05	763.3	30.12	765.0	45	7.2	68	w.	11	4.9		0	0			0.05	1.3	clear	N. Gorom.
Santa Fé, New Mexico	23.16	588.2	29.92	760.0	36	2.2	46	ne.	8	3.6		0	0			0	0	clear	H. U. Jones.
Savannah, Georgia	29.63	752.6	29.72	754.9	70	21.1	84	sw.	7	3.1			10 ks		sw.	1.19	30.2	cloudy	H. W. Ford.
Shreveport, Louisiana	29.66	753.4	29.90	759.4	53	11.7	66	w.	6	2.7		0	0			0.06	1.5	clear	E. N. Meekins.
Silver City, New Mexico	24.22	615.2	29.90	759.4	37	2.8	46	w.	1	0.4		0	0			0	0	clear	J. B. Wallace.
Sitka, Alaska	29.53	750.0	29.59	751.6	32.5	0.3	71	sw.	3	1.3		0	0			0	0	clear	J. J. McLean.
Smithville, North Carolina	29.49	749.0	29.53	750.0	69	20.6	76	sw.	50	22.4			9 s		w.	0.09	2.3	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	27.78	705.6	29.84	757.9	32	0.0	88	s.	8	3.6		9 k	0	sw.		0.73	18.5	cloudy	D. Moore.
Springfield, Illinois	28.98	736.1	29.68	753.9	44	6.7	93	ne.	9	4.0			10s;fg		ne.	1.11	28.2	cloudy	T. B. Jennings.
Springfield, Massachusetts	29.73	755.1	29.86	758.4	38.2	3.4	45	nw.	9	4.0		4 k	0	nw.		0	0	fair	T. S. Outram.
Springfield, Mo	28.34	719.8	29.86	758.4	43	6.1	96	nw.	19	8.5			10 n		nw.	1.10	27.9	light rain	J. B. Marbury.
Stockton, Texas	26.92	683.8	29.95	760.7	48.6	9.2	28	s.	2	0.9		0	0			0	0	clear	J. O'Dowd.
Thatcher's Island, Mass	29.76	755.9	29.81	757.2	33.9	1.1	65	nw.	25	11.2		10 k	0	nw.		0	0	cloudy	G. Liebmann.
Toledo, Ohio	29.14	740.1	29.85	758.2	40	4.4	57	e.	44	19.7			10 s			0	0	cloudy	A. Buell.
Tucson, Arizona	27.53	699.2	29.92	760.0	47	8.3	52	se.	3	1.3		0	0			0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.66	753.4	30.03	762.7	34	1.1	71	w.	5	2.2		0	1 s			0.05	1.3	clear	J. Daly.
Uvalde, Texas	28.99	736.3	29.96	761.0	50	10.0	64	calm	0	0		0	0			0	0	clear	E. C. Imlay.
Vicksburg, Mississippi	29.58	751.3	29.84	757.9	62	16.7	58	w.	8	3.6		0	0			1.02	25.9	clear	T. J. Kenan.
Visalia, California	29.66	753.4	30.03	762.7	49.1	9.5	60	nw.	8	3.6		3 ck	5 ks	nw.	nw.	0	0	cloudy	J. T. Cochran.
Washington, D. C.	29.76	755.9	29.88	758.9	43	6.1	60	ne.	11	4.9			10 s		ne.	0.15	3.8	cloudy	B. M. Pursell.
West Las Animas, Colorado	25.92	658.4	29.88	758.9	29	— 1.7	59	ne.	6	2.7		0	0			0	0	clear	J. Grover.
Wickenburg, Arizona					39.5	4.2	82	calm			0	0	0			0	0	clear	H. A. Kremp.
Williamsport, Pa	29.32	744.7	29.93	760.2	39	3.9	46	ne.	3	1.3		10 cs	0	w.		0	0	cloudy	B. F. Hough.
Wilmington, N. Carolina	29.54	750.3	29.60	751.8	69	20.6	70	w.	8	3.6		10 k	0	w.		0.31	7.9	cloudy	E. W. McGann.
Winnemucca, Nevada	25.50	647.7	29.90	759.4	32	0.0	52	sw.	6	2.7		0	4 ks		sw.	0.02	0.5	fair	J. R. Williams.
Yankton, Dakota	28.68	728.5	30.02	762.5	38	3.3	89	e.	8	3.6			10 ks			0.19	4.8	cloudy	J. H. Atfield.
Yuma, Arizona	29.75	755.6	29.90	759.4	52.2	11.2	57	calm	0	0		0	0			0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.04	559.8			56.5	13.6	91	s.	3.0	1.3		3 ck	2 s	w.		0	0	fair	Joaquin Gomez.
Bridgetown, Barbados, W. I.	30.08	764.0	30.09	764.3	81	27.2	86	e.				8 ck	5 ks	e.	e.	0.08	2.0		J. A. Racker.
Buenaventura, U. S. C.																			J. I. Plume.
Guadeloupe, W. I.	29.99	761.7	30.01	762.2	78	25.6	83	e.				4 k	2 k			0.039	1.0	hazy	B. Bigar.
Havana, Cuba, W. I.	29.97	761.2	30.02	762.5	81	27.2	74	calm	0	0		0	1 ks		s.	0	0	clear	A. Van Caneghem.
Kingston, Jamaica, W. I.	30.05	763.3	30.06	763.5	77.9	25.5	69	calm	0	0		0	2 ks		e.	0	0	fine	Robert Johnston.
Navassa, W. I.																			F. M. Everett.
Paramaribo, S. A.	30.05	763.3	30.05	763.3	80	26.7	78	e.			2	4 c	5 k	e.	e.	0	0	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Colmbia	29.44	747.8	29.90	759.4	81	27.2	90	calm			0		10 s		calm	0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.							94	ne.			1	1 cs	0	e.		0	0	clear	Earl Flint.
Santiago de Cuba, W. I.	30.00	762.0	30.02	762.5	78	25.6	72	n.	1.2	0.5		2 c	3 ks			0	0	fair	Robert Mason.
York Factory, B. A.	30.05	763.3	30.10	764.5	21.0	— 6.1	93	se.	14	6.3		6 k	4 s	se.	se.	0.01	0.3	snowing	W. Wood.

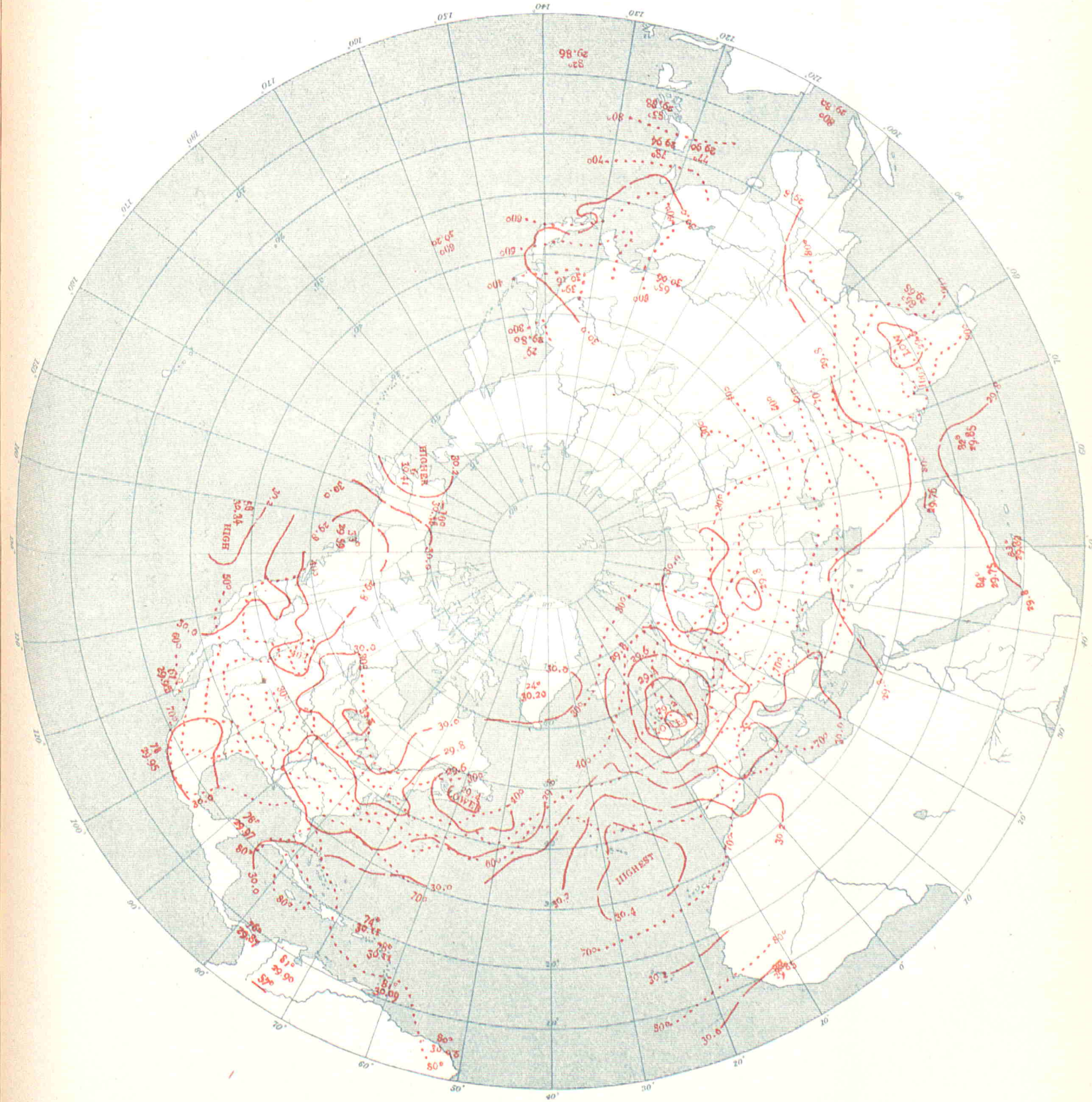
* Observation 25 minutes late.

STATIONS AND VESSELS.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
British Naval.																		
H. M. S. Alert, Providence Island, Madagascar	29.91	759.7	83	28.3	79	se.			3–4		4							d. clouds.
H. M. S. Alexandra, Malta Mediterranean	30.09	764.3	68	20.0	74	wnw.			1		3	ssw.						d. clouds.
H. M. S. Amethyst, N. 49° 38′, W. 5° 33′	29.44	747.8	52	11.1	100	w.			6–7		4	wnw.				3	wsw.	squally.
H. M. S. Bacchante, Beirut Bay, Palestine	29.71	754.6	66	18.9	84	ssw.			3–5		5	sw.				4	sw.	showery.
H. M. S. Champion, S. 28° 15′, W. 73° 00′			60	15.6	82	calm			0		10	calm						d. clouds.
H. M. S. Comus, N. 7° 34′, E. 134° 00′	29.86	758.4	82	27.8	91	e.			2		5	ene.				4	ne.	d. clouds.
H. M. S. Diamond, S. 34° 38′, E. 151° 53′	29.95	760.7	71	21.7	95	nne.			3–5		8	nne.				3	nne.	squally.
H. M. S. Dido, N. 18° 20′, W. 65° 00′	30.15	765.8	79	26.1		se.			3		2	e.						d. clouds.
H. M. S. Dryad, N. 25° 15′, E. 55° 18′	29.66	753.4				w.			1		0					1	w.	blue sky.
H. M. S. Espiegle, S. 39° 00′, E. 150° 54′	29.91	759.7	66	18.9	94	n.			5		8	n.				4	n.	d clouds.
H. M. S. Fawn, N. 13° 21′ E. 43° 10′	29.75	755.6	83.7	28.7	65	s.			3		3					2	s.	misty.
H. M. S. Gannet, S. 29° 56′, W. 71° 20′	30.09	764.3	59	15.0	76	calm			0		10							misty.
H. M. S. Garnet, Colonia, Uruguay	30.23	767.8	54	12.2	79	ene.			3		0							blue sky.
H. M. S. Inconstant, Simon's Bay, Cape Colony	30.09	764.3	65	18.3	89	nw.			2–3		4	nw.						d. clouds.
H. M. S. Iron Duke, N. 19° 00′ E. 117° 12′	29.90	759.4	77	25.0	95	ene.			2		4	e.				1	e.	d. clouds.
H. M. S. Lark, S. 9° 05′, E. 160° 20′	29.91	759.7	81.3	27.4		calm			0		5					1	se.	d. clouds.
H. M. S. Magpie, N. 35° 25′, E. 139° 43′	29.96	761.0	62	16.7	85	calm			0		7							d. clouds.
H. M. S. Malabar, Malta, Nediterranean	30.06	763.5	64	17.8	89	nnw.			1		1	nnw.				1	nnw.	blue sky.
H. M. S. Nelson, Sydney, N. S. W	29.95	760.7	69	20.6	90	n.			1		3	s.						d. clouds.
H. M. S. Northampton, Bermuda, W. I	29.99	761.7	69	20.6	92	sse.			3		10							misty.
H. M. S. Orontes, N 32° 20′ W. 28° 00′	30.51	774.9	64.5	18.1	85	ene.			3		10					3	nne.	overcast.
H. M. S. Pegasus, N. 1° 17′, E. 103° 52′	29.80	756.9	80	26.7	95	calm			0		10							d. clouds.
H. M. S. Rambler, Little Fish Bay, Benguela	29.92	760.0	72	22.2	95	wnw.			2		0							blue sky.
H. M. S. Rocket, Esquimalt, Vancouver Id., B. C	29.78	756.4	38	3.3		wsw.			3		2							d. clouds.
H. M. S. Serapis, N. 16° 28′ E. 63° 00′	29.85	758.2	82	27.8	67	wnw.			2		0							blue sky.
H. M. S. Superb, N. 39° 13′, E. 20° 04′*	30.01	762.2	69	20.6	60	w.			2–3		1	wnw.				2	wnw.	blue sky.
H. M. S. Tamar, N 50° 31′ W. 1° 30′	29.38	746.2	57.5	14.2	58	sw.			4		6	ssw.				4	ssw.	d. clouds.
H. M. S. Thalia, S. 18° 27′, W. 2° 24′	30.13	765.3	71.5	21.9	80	ese.			5		3					2	ese.	d. clouds.
H. M. S. Triumph, Coquimbo, Chili	30.06	763.5	59	15.0	76	calm			0		9	calm						d. clouds.
H. M. S. Tyne, N 12° 30′, E. 47° 00′	29.82	757.4	83	28.3	100	ne.			1–2		1	calm				1	ne.	blue sky.
Portuguese Naval.																		
Rio Lima, Bulama, Senegambia	30.227	767.6?	80.6	27.0	92	ssw.			4		0							blue sky.
Tamega, Aberdeen, China	29.93	760.3	73.4	23.0	78	calm			0		2					3	ssw.	d. clouds.
Swedish Naval.																		
Balder, N. 40° 40′ W. 55° 24′	29.66	753.3	51.6	10.9	90	w.			6		7							gloomy.
United States Naval.																		
Navy Yard. Pensacola, Fla	29.81	757.2	67	19.4	49	wnw.	4	1.8			0			0.01	0.3			clear.
N. Yard, Portsmouth, N. H	29.80	756.9	36	2.2	61	nw.	12	5.4			2		nw.	0	0			clear.
Naval Hospital, Yokohama, Japan	29.79	756.7	61	16.1	74	calm			0		8		w.	0	0			cloudy.
Adams, Acapulco, Mexico	29.70	754.4	78	25.6	95	calm			0		0			0	0	sm'h		clear.
Alaska, Panama, Panama	29.87	758.7	76	24.4	95	nw.			1		0			0	0	sm'h		clear.
Alert, Kobe Japan*	29.87	758.7	67	19.4	60	calm			0		8		calm	0	0	sm'h		cloudy.
Alliance, N. 24° 18′, W. 82° 18′	30.01	762.2	79	26.1	91	sse.			3		2			0	0	sm'h		hazy.
Ashuelot, Kobe, Japan	29.96	761.0	64	17.8	62	calm			0		8		sw.					cloudy.
Brooklyn, Montevideo, Uruguay	30.26	768.6	51	10.6	93	n.	4	1.8			0			0	0	sm'h		clear.
Colorado, New York, N. Y	29.89	759.2	44	6.7	60	n.	2	0.9			5		calm	0	0			misty.
Enterprise, Key West, Florida*	29.99	761.7	79	26.1	91	sw.			4		0					sm'h		clear.
Essex, S. 14° 37′, W. 29° 17′	30.02	762.5	80	26.7	82	ene.			2		2					sm'h		clear.
Franklin, Norfolk, Va	29.78	756.4	47	8.3	92	ene.	8	3.6			10		calm	0.68	17.3			rainy.
Galena, Leghorn, Italy	30.02	762.5	63	17.2	78	sw.			3		10		s.			sm'h	s.	cloudy.
Independence, Mare Island, Cal	29.96	761.0	44	6.7	76	nw.			2		5			0.15	3.8			fair.
Irquois, Mare Island, Cal	30.09	764.3	47	8.3	77	calm			0		2		sw.					fair.
Kearsarge, Hampton Roads, Va	29.79	756.7	50	10.0	100	ne.			5		10					rg'h	ne.	cloudy.
Lackawana, Casma, Peru*†	30.02	762.5	66	18.9	94	calm			0		2		s.					clear.
Lancaster, Leghorn, Italy*	29.97	761.2	65	18.3	68	sse.			3		8		sse.	0	0			fair.
Marion, S. 23° 24′, W. 6° 01′	30.21	767.3	73	22.8	76	nne.			3		8		nne.	0	0	long	wsw.	cloudy.
Michigan, Erie, Pa	29.84	757.9	39	3.9	91	ne.			3		8		e.					cloudy.
Minnesota, Newport, R. I	29.80	756.9	40	4.4	73	n.	10	4.5			2							fair.
Monocacy, Kobe, Japan	29.99	761.7	68	20.0	74	calm			0		8		calm					fair.
New Hampshire, Newport, R. I	29.82	757.4	44	6.7	52	n.			4		0					sm'h		clear.
Nipsic, Villafranca, France	29.99	761.7	67	19.4	69	e.			2		8					sm'h		fair.
Onward, Callao, Peru†	30.08	764.0	61	16.1	100	sse.			2		2		n.			long	w.	clear.
Palos, Kobe, Japan	29.98	761.5	64	17.8	62	nnw.			1		8		sw.					hazy.
Passaic, Washington, D. C	29.91	759.7	43	6.1	92	ne.			3		10							misty.
Pensacola, Callao, Peru	29.99	761.7	63	17.2	83	calm	0	0			10		s.	0	0	sm'h		cloudy.
Powhatan, Havana, Cuba, W. I	30.00	762.0	78	25.6	91	calm			0		2							clear.
Portsmouth, N. 38° 18′ W. 55° 52′	29.76	755.9	59	15.0	82	w.			7		17		w.			r'gh	w.	cloudy.†
Quinnebaug, Leghorn, Italy	30.00	762.0	63	17.2	67	s.			4		2		sw.			sm'h		hazy.
Ranger, Mazatlan, Mexico*	29.91	759.7	63	17.2	78	calm			0		2		calm	0	0	sm'h		hazy.
Richmond, Kobe, Japan*	29.91	759.7	68	20.0	56	calm			0		5		wsw.	0	0			fair.
Saratoga, N. 40° 41′, W. 53° 50′	29.68	753.9	50	10.0	79	wnw.					5		nw.	0	0	r'gh	sw.	fair.
Shenandoah, N. 24° 37′, W. 80° 40′*	30.07	763.8	80	26.7	87	sse.			2		2					sm'h		fair.
St. Louis, League Island, Pa	30.17	766.3	42	5.6	58	nne.	7	3.1			8		ne.	0	0			cloudy.
Swatara, N. 33° 42′, E. 132° 05′*	29.85	758.2	61	16.1	66	sw.			2		8		sw.			sm'h		fair.
Tennessee, N. 36° 43′ W. 75° 45′	29.81	757.2	49	9.4	100	ne.	34	15.2			10		ne.	1.10	27.9	mod.	ne.	cloudy.
Vandalia, Hampton Roads, Va†	30.08	764.0	50	10.0	93	e.			5		10		ne.					misty.
Wabash, Boston, Mass	29.85	758.2	38	3.3	54	nw.	5	2.2			5		nw.	0	0			fair.
Wachusetts, Sitka, Alaska	29.48	748.8	33	0.6	100	w.			1		0					sm'h		clear.
Wyoming, Port Royal, S. C	29.71	754.6	66	18.9	100	w.	12	5.4			10		w.	0.5	13.			overcast.
Yantic, Fort Monroe, Va*†	30.03	762.7	57	13.9	58	e.			4–6		10							rainy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Circassian, N. 43° 10′, W. 59° 45′	29.83	757.7	34	1.1	79	w.			6		6		w.	1 h'r	1 h r	3	wsw.	snowing.
S. S. Nova Scotian, N. 54° 21′, W. 16° 02′	29.63	752.6	51	10.6		nw.			5		0					sli't	nw.	clear.
S. S. Polynesian, N. 53° 40′, W. 20° 57′*	29.73	755.1	47	8.3		nnw.			4		9		nnw.	0	0	mod.	nw.	cloudy.
S. S. Scandinavian, N. 51° 00′, W. 21° 17′*	29.88	758.9	47	8.3		nnw.			2		3		nnw.	12 h'r	12 h'r	mod.	wnw.	d. clouds.
S. S. Waldensian, N. 52° 27′, W. 23° 21′*	30.00	762.0	43	6.1		ne.			2		5		ne.	0	0	long	ne.	fine.
AMERICAN STEAMSHIP COMPANY.																		
S. S. British Crown, N. 48° 03′, W. 27° 08′†	30.37	771.4	54	12.2		sw.			4		10			4 h'r	4 h'r	sm'h	w.	overcast.
S. S. Illinois, Liverpool, England	29.04	737.6	54	12.2	93	sw.			6		5		w.					fair.
S. S. Indiana, N. 38° 51′, W. 72° 35′ †	29.88	758.9	41	5.0	65	ene.			4		10		ne.	light	light	mod.	ne.	cloudy.
S. S. Ohio, Liverpool, Engt	29.59	751.6	53	11.7	93	w.			2		8		nw.					cloudy.
S. S. Pennsylvania, N. 42° 30′, W. 43° 30′†	29.74	755.4	63	17.2	83	wsw.			5				wsw.			r'gh	w.	d. clouds.
ANCHOR LINE.																		
S. S. Assyria, N. 50° 45′, W. 23° 23′*†	30.12	765.0	48	8.9		e.			4		2		ne.	8 h'r	8 h'r	mod.	n.	clear.
S. S. Bolivia, N. 40° 23′, W. 68° 53′†	29.74	755.4	40	4.4		e.			2		2?		e.	0	0	sm'h		cloudy.?
S. S. Devonia, N. 43° 55′ W. 48° 20′†	29.45	748.0	41	5.0		ssw			2		10		ssw.			h'vy	ssw.	foggy.
S. S. Ethiopia, N. 54° 59′, W. 11° 40′	29.30	744.2	51	10.6	100	nw.			6		10		w.	6 h'r	6 h'r	h'vy	nw.	cloudy.
S. S. Galatia, N. 49° 00′, W. 17° 34′†	30.00	762.0				wnw			7		10		sw.	4 h'r	4 h'r	r'gh	cross	rainy.
S. S. India, N. 13° 51′, E. 42° 52′*	29.68	753.9	86	30.0	88	s.			3		0							clear.
ATLAS LINE.																		
S. S. Ailsa, Gonaives, Hayti, W. I.†	30.09	764.3	82	27.8	74	se.			2		2		se.	0	0			fair.
S. S. Alvo, Savanilla, U. S. C.	30.41	772.4	103	39.4		ne.			2		2		ne.	0	0			fair.
S. S. Arden, N. 33° 30′, W. 74° 50′						ssw.			2		5?		nw.			mod.	sw.	cloudy.†
S. S. Claribel, N. 18° 33′. W. 72° 20′*†	30.18	766.6	83	28.3	83	calm			0		3		calm	0	0			fine.
BRITISH METEOROLOGICAL OFFICE.																		
Bk. Arran, S. 19° 59′ W. 27° 17′	30.04	763.0	79.5	26.4	76	nnw.			3		2							d. clouds.
S. Baroda, N. 14° 46′, E. 81° 47′	29.68	753.9	86.3	30.2	72	ese.			3		0							blue sky.
British Merchant, S. 22° 58′, E. 61° 24′	30.05	763.3	79.5	26.4	80	ese.			2		3							d. clouds.
Glencairn, S. 5° 01′, E. 92° 09′	29.72	754.9	79	26.1	95	wsw.			5–6		6							misty.
Bk. Julia H., N. 35° 13′, W. 74° 10′	29.62	752.3	64.2	17.9	94	nnw.			3		10							squally.
CROMWELL LINE.																		
S. S. Hudson, N. 37° 55′, W. 74° 20′†	29.12	739.6	49	9.4		e.			3		10		ene.	4 h'r	4 h'r	mod.	ene.	cloudy.
CUNARD LINE.																		
S. S. Parthia, Mersey River, Eng.†	29.16	740.7				var.			1		10		w.	mist	mist	sm'h		foggy.
S. S. Scythia, N. 42° 48′, W. 46° 33′	29.62	752.3	60	15.6	94	s.			5		5?		ssw.	2 h'r	2 h'r	mod.	ssw.	cloudy.†
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. Canada, N. 49° 46′, W. 9° 30′	29.56	750.7	53 6	12.0		nw.			6		5		wnw.	2½h'r	2½h'r	h'vy	w.	
S. S. France, N. 43° 00′, W. 47° 27′†	29.67	753.7	44.6	7.0		w.			6				wsw.	rain	rain	h'vy	wsw.	light rain.
S. S. St. Germain, N. 41° 26′, W. 52° 22′			44.6	7.0		w.			2				nw.	0	0		sw.	very clear.
GUION LINE.																		
S. S. Wisconsin, N. 43° 45′, W. 44° 30′*†	29.67	753 6	55	12.8	100	s.			2		2		sw.	5 h'r	5 h'r	mod.	con.	hazy.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Bohemia, N. 53° 50′, E. 8° 40′.*†	29.56	750.8				s.			4		3		s.	0	0	mod.	ssw.	fine.
S. S. Cimbria, N. 41° 50′, W. 56° 15′	29.55	750.6	42.8	6.0		w.			5		10		wnw.	1 h'r	1 h'r	r'gh	w.	light rain.
S. S. Lessing, N. 49° 17′, W. 11° 55′	29.72	754.9	58	14.4		nnw.			6		5		nw.	0	0	sm'h	nw.	
S. S. Silesia, N. 40° 56′, W. 60° 56′†	29.74	755.4	42.4	5.8		wnw.			6		8		nw.	0	0	5	wnw.	cloudy.
S. S. Wieland, N. 49° 42′, W. 6° 38′	29.63	752.6	55.5	13.1		wnw.			6		8		wnw.	2 h'r	2 h'r	7	wnw.	fair.
INMAN LINE.																		
S. S. City of New York, N. 40° 33′ W. 68° 27′	29.84	757.9				s.			2		3?		s.	0	0	sm'h	wnw.	cloudy ?
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, S. 5° —′, W. 30° —′*†	30.20	767.1	84	28.9		ese.			3		4		ese.	0	0	sm'h		clear.
LEYLAND LINE.																		
S. S. Iberian, N. 42° 50′, W. 53° 48′	29.55	750.6				wsw.			3		2		w.	8 h'r	8 h'r	mod.	w.	
MALLORY LINE.																		
S. S. Colorado, New York, N. Y.†	29.88	758.9	50	10.0		n.			2		0			0	0			fair.
MERCHANTS' EXPRESS LINE.																		
S. S. Freja, N. 45° 08′, W. 35° 57′†	30.21	767.3	61	16.1	88	wsw.			5		8		wsw.	0	0	mod.	w.	
MERCHANT STEAMSHIP COMPANY.																		
S. S. Glenapp, N. 30° 29′, W. 65° 12′.*†	30.10	746.5				wsw.			4		2		sw.	0	0	sm'h		fine.
NATIONAL LINE.																		
S. S. Denmark, N. 40° 51′ W. 52° 17′	29.70	754.4	59	15.0		w.			4		2		nw.	2 h'r	2 h'r	long	ssw.	clear.
S. S. England, N. 49° 19′, W. 25° 47′	30.11	764.8				wsw.			5		10			8 h'r	8 h'r	mod.	w.	cloudy.
S. S. Erin, London, England	29.25	742.9	58	14.4		ssw.			7		9		sw.	2 h'r	2 h'r			
S. S. Italy, N. 40° 14′, W. 69° 20′	29.89	759.2	43	6.1	92	nnw.			3		2		n.	0	0	mod.	nnw.	clear.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY																		
S. S. Niagara, N. 38° 01′, W. 74° 14′†	29.82	757.4	47	8.3	100	ene.			4		10		e.	0	0	sm'h		cloudy.
NEW YORK, HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, New York, N. Y*†	29.89	759.2	46	7.8		w.			3		3		w.	0	0			clear.
S. S. City of Puebla, Off Progreso Roads, Mexico†	29.77	756.1	78	25.6		sse.			5		0					light	se.	
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Alvena, N. 35° 05′, W. 70° 20′†	29.69	754.1	67	19.4		sw.			6								sw.	squally.
S. S. Atlas, N. 32° 00′, W. 74° 20′*†	29.98	761.5	72	22.2		sw.			4								sw.	hazy.
S. S. New York, N. 29° 20′, W. 79° 40′ *†	29.85	758.2	80	26.7		ssw.			6								s.	clear.
S. S. Olbers, S. 8° 38′ W. 34° 30′*†	30.05	763.3	83	28.3		ene.			4								ne.	
S. S. W. A. Scholten, N. 48° 11′, W. 9° 48′	29.67	753.6	61.7	16.5		wnw.			6							high		
NORTH GERMAN LLOYD.																		
S. S. Graf Bismarck, S. 8° 00′, W. 34° 00′	30.02	762.5	85.1	29.5		e.			3–4		2		e.	0	0	mod.	e.	fair.
S. S. Hapsburg, N. 49° 35′, W. 16° 11′	29.87	758.7	50.9	10.5		n.			6		2		n.	3½h'r	3½h'r	long	n.	fair.
S. S. Kronprinz F. Wilhelm, N. 46° 42′ W. 37° 45′	29.83	757.7	55.4	13.0		s.			5		10			12 h'r	12 h'r	5	sw.	light rain.
S. S. Main, N. 53° 34′, E. 5° 29′	29.48	748.8	53.6	12.0		s.			4		6?		sse.	light	light	mod.	sse.	overcast.?
S. S. Mosel, N. 46° 31′ W. 35° 38′	30.07	763.8	57	13.9		ssw.			6		8		sw.	6 h'r	6 h'r	r'gh	sw.	cloudy.
S. S. Nurnburg, N. 42° 55′. W. 43° 11′*	29.73	755.1	60.8	16.0		s.			7		10		ssw.	8¼h'r	8¼hr	cross	s.	raining.
S. S. Ohio, N. 47° 10′, W. 23° 48′	30.18	766.6				w.			6		10		w.	0	0	r'gh	w.	misty.
S. S. Rhein, N. 49° 23′, W. 18° 52′	29.91	759.7				ne.			1–2		4		nnw.	16 h'r	16 h'r	mod.	n.	fair.
S. S. Salier, N. 41° 55′, W. 49° 21′	29.62	752.3	46.4	8.0		w.			3		10		w.	6 h'r	6 h'r	h'vy	wsw.	cloudy.
S. S. Strassburg, N. 40° 12′. W. 64° 08′	29.76	755.9	43.0	6.1	92	wnw.			5–6		7		wnw.	0	0	r'gh	wnw.	cloudy.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Belgic, N. 38° 13′. W. 138° 18′†	30.34	770.6	58	14.4	76	w.			5		8		wnw.	0	0	high	nw.	cloudy.
S. S. Oceanic, Hong Kong, China*	29.81	757.2	74	23.3	72	e.			4									cloudy.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, N. 37° 02′ W. 75° 10′†	29.73	755.1				ene.			4		10			light	light	sm'h		rainy.
S. S. Seminole, N 39° 32′, W. 73°, 05′†	29.92	760.0	53	11.7	67	ne.			4		5		nw.	3 h'r	3 h'r	mod.	ne.	fair.
OREGON IMPROVEMENT COMPANY.																		
S. S. Mississippi, N. 45° 47′, W. 124° 41′†	29.87	758.7	44	6.7	76	wnw.			4		8		wnw			h'vy	nw.	squally.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. City of Chester, N. 44° 50′ W. 124° 25′*†	29.92	760.0	42	5.6	?	s.			6		6?		sw.			h'vy	sw.	overcast.?
S. S. Oregon, N. 44° 13′, W. 124° 31′	29.99	761.7	44	6.7	68	sw.			5		5		sw.			h'vy	sw.	squally.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, San Francisco, Cal.†	30.06	763.5	44	6.7	68	nw.			2		0							clear.
S. S. Idaho, N. 45° 10′, W. 124° 50′			42	5.6	83	ne.			6		8		se.			h'vy	se.	stormy.
S. S. State of California, Portland, Oregon †	29.93	760.2	35	1.7	90	sse.			2		5		s.					cloudy.
S. S. Victoria, N. 48° 18′ W. 124° 00′†	29.71	754.5	40	4.4	91	s.			3		8			3 h'r	3 h'r	h'vy	w.	squally.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, S. 34° 06′, E. 170° 36′	30.20	767.1	62	16.7	88	se.			3		10					sm'h	e.	hazy.
S. S. City of New York, Sydney, N. S. W.†	29.08	761.5	71	21.7	90	n.			1		1?		n.	0	0			overcast?

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
PACIFIC MAIL STEAMSHIP COMPANY.—Continued.																		
S. S. City of Pekin, N. 18° 39′ W. 104° 04′†	29.95	760.7	78	25.6	82	nw.			2		2					sm'h		hazy.
S. S. City of Rio de Janeiro, Panama, Panama*†	30.10	764.5	78	25.6	86	nw.			1		1		nw.			sm'h	nw.	clear.
S. S. City of Tokio, N. 35° 05′, E. 157° 06′†	30.26	768.6	60	15.6	88	ssw.			6		10		sse.	2 h'r	2 h'r	mod.	nw.	cloudy.
S. S. Clyde, N. 16° 55′, W. 99° 48′†	29.95	760.7	79	26.1	86	var.			1		2		nw	0	0	sm'h		clear.
S. S. Colon, N. 33° 22′, W. 74° 15′†	29.78	756.4	69	20.6		wsw.			6		10		nw.	0	0	mod.	sw.	cloudy.
S. S. Grenada, N. 24° 44′, W. 112° 55′†	29.95	760.7	61	16.1	88	ssw.			1		0			0	0	light	nw.	clear.
S. S. Zelandia, S. 1° 32′, W. 166° 23′	29.84	757.9	82	27.8	91	e.			4		5		e.			mod.	e.	fair.
QUEBEC S. S. COMPANY.																		
S. S. Muriel, Guadloupe, W. I.	30.07	763.8	80	26.7		ene.			3		0			0	0	sm'h		fair.
S. S. Bermuda, St. Christophere, W. I†	30.28	769.1	58	14.4		e.			2		2		e.	0	0	sm'h		fine.
RED STAR LINE.																		
S. S. Belgenland, N. 48° 01′, W. 21° 20′†	30.14	765.5	55	12.8		wsw.			9		6		nnw.	22 h'r	22 h'r	h'vy	w.	rainy.
S. S. Nederland, N. 40° 00′, W. 68° 57′*†	29.97	761.2	42	5.6		wsw.			3		10		w.	0	0	sm'h	w.	cloudy.
S. S. Rhynland, N. 40° 20′ W. 67° 25′	29.79	756 7	37	2.8	71	wnw.			3		10		wnw.	0	0	light	wnw.	cloudy.
S. S. Vaderland, N. 50° 32′, E. 0° 15′	29.45	748.0	53	11.7	86	w.			6		5		sw.	0	0	r'gh	wsw.	cloudy.
S. S. Waesland, N. 47° 27′, W. 24° 46′	30.16	766.1	57	13.9		wsw.			5		10		w.	5 h'r	5 h'r	mod.	w.	drizzling
ROTTERDAM LINE.																		
S. S. Schiedam, N. 41° 20′ W. 54° 25′*	29.80?	756.9?	50.5	10.3	79	wnw.			5		5		wsw.	3 h'r	3 h'r	high	w.	cloudy.
STATE LINE.																		
S. S. State of Georgia, N. 41° 59′ W. 55° 18′†	29.67	753.6	44	6.7		wnw.			5		8		w.			long	sw.	drizzling
S. S State of Indiana, N. 53° 28′, W. 17° 30′†	29.64	752.8	51	10.6		nnw.			5		4		wnw.	0	0	long	nw.	fair.
THINGVALLA LINE.																		
S. S. Thingvalla, N. 46° 32′ W. 44° 28′†	29.86	758.4	42.8	6.0		s.			3		10			5 h'r	5 h'r	mod.	s.	covered.
WHITE CROSS LINE.																		
S. S. Hermann, N. 40° 07′, W. 11° 37′†	29.85	758.2				wnw.			6		5 k?			0	0	h'vy	nw.	cloudy?
WHITE STAR LINE.																		
S. S. Baltic, N. 51° 20′ W. 10 25′†	29.57	751.1	49	9.4	93	wnw.			6		8		wnw.	3 h'r	3 h'r	r'gh	wnw.	d. clouds.
S. S. Britannic, N. 50° 09′, W. 23° 36′†	29.96	761.0	49	9.4		e.			1		10			2 h'r	2 h'r	high	w.	foggy.
S. S Celtic, New York, N. Y†	29.83	757.7	46	7.8		n.			3		2		n.	0	0			fair.
WILSON LINE.																		
S. S. Otranto, N. 49° 45′, W. 6° 29′†	29.40	746.7	56	13.3		wnw.			6							r'gh	nw.	cloudy.
S. S. Salerno, N. 50° 37′ W. 12° 35′*	29.64	752.8	56.8	13.8	75	nnw.			6		3		nnw.			high	nw.	d. clouds.
WINSOR LINE.																		
S. S. Catherine Whiting, Fire Island, N. Y.†	29.94	760.5				nnw.			2		0			0	0	light	w.	
S. S. Norman, N. 41° 12′, W 76° 15′	29.86	758.4				n.			2		0					sm'h		fine.
MISCELLANEOUS.																		
Schr. Abbe Clifford, N. 36° 57′, W. 59° 49′*†	29.75	755.6	62	16.7		sw.			5		10		sw.	0	0	mod.	w.	cloudy.
Sch. Addie Fuller, N. 36° 56′, W. 75° 40′†	29.80	756.9	46	7.8	92	e.			4		10 8		e.	0.73	18.5	mod.	e.	cloudy.
Bk. Adelaide, Rio de Janeiro, Brazil*†	30.10	764.5	75	23.9		calm			0									
Schr. Ajax, Mobile, Ala†	30.18	766.6				w.			1		0			0	0			clear.
Bk. Alpha, Santiago de Cuba, Cuba, W. I†	29.97	761.2	80	26.7		calm			0		2			0	0			fair.
Schr Annie Lewis, N 28° 20′, W. 89° 09′†	29.99	761.7	73	22.8		nnw.			4		0			0	0	cross	sw.	clear.
Bk. Antioch, S. 39° 54′, E. 26° 20′*†	29.55	750.6	66	18.9		nw.			8		7?		nnw.	0	0	mod.	nnw.	overcast.?
Schr Asa Eldridge, Punta Rassa, Fla†	30.03	762.7				ssw.			4		2		ssw.	0	0			threatening.
Bk. Aureola, S. 7° 59′, W. 31° 29′*†	30.10	764.5	95	35.0		e.			4		2		e.	0	0	light	e.	clear.
Schr. Annie M. Smull, S. 41° 00′, E. 72° —′*†	29.80	756.9	53	11.7										0	0			
Bkt. Carrie Heckle, Cienfuegos, Cuba, W. I*†	30.14	765.5	80	26.7		calm			0		0			0	0			
Bk. Celestina, S. 32° 19′, W. 46° 10′*†	30.12	765.0				s.			3		9		sse.	0	0	hv'y	sw.	clearing.
Bk. Champion, N. 48° 01′, W. 13° 30′†	29.81	757.2				nw.			6		8		nw.	0	0	long	nw.	
S. S. Compton, Cardenas, Cuba, W. I†	30.06	763.5				calm			0		1		calm	0	0			clear.
S. Dora, N. 39° 05′, W. 58° 32′†	29.85	758.2	55.4	13.0		w.			6		10		w.	1 h'r	1 h'r		w.	cloudy.
S. E. J. Spicer, N. 39° 36′, W. 58° 15′†	29.82	757.4				wnw.			6		10		wnw.	10 h'r	10 h'r	r'gh	w.	cloudy.
Bk. E. L. Pettingill, N. 33° 11′, W. 119° 27′†	30.10	764.5				nw.			4		0			0	0	sm'h	nw.	clear.
S. Enoch Train, N. 39° 16′ W 40° 30′*	29.95	760.7				ssw			5		8		wsw.	0	0	light	wnw.	hazy.
S. Exporter, S. 5° 10′, W. 28° 00′*†	30.10	764.5				se.			5		1		se.	0	0	long	se.	fine.
S. Festina Lente, N. 40° 10′, W. 54° 27′*	29.72	754.9	53	11.7		wsw.			6		6		w.	5 h'r	5 h'r	long	wsw.	rainy.
U.S.F.C.S.S.Fish Hawk, Quantico, Va†	29.97	761.2	50	10.0	93	ne			5		10		ne.	0.19	4.8			raining.
S. Grecian, S. 40° 34′ E. 29° 47′*†	29.70	754.4	60	15.6		nnw.			6		9		nnw.	0	0	long	sw.	hazy.
Bk. Freya, N. 46° 20′ W. 23° 22′			56	13.3		wsw.			5		8		wsw.	0	0	mod.	w.	cloudy.
Bk. Granville, Algoa Bay, Africa*†	30.07	763.8				wsw.			3				nw.	0	0			clear.
Schr. Hattie G. McFarland, Baltimore, Md*†	29.89	759.2	50	10.0		ne.			3		5		ne.	3 h'r	3 h'r			fair.
Schr. Henry Denison, N. 26° 39′, W. 74° 40′†	30.04	703.0				ese.			4		3		se.	0	0	light	sse.	fair.
S. Hedwig, N. 41° 24′, W. 54° 26′	29.63	752.6	48.9	9.4	77	w.			6–7		9		w.	3 h'r	3 h'r	5	wsw.	squally.
Schr. John L. Thomas, Serranilla Banks, W. I*†	30.06	763.5				ene.					6		ese.	0	0			fine.
Bg. John Wesley, Sagua la Grande, Cuba, W. I.†	29.86	758.4	79	26.1		sw.			1		0			0	0			clear.
Bk. Jona, N. 47° 10′, W. 18° 24′*†	30.40	772.1				nw.			3		10		nnw.	4 h'r	4 h'r	hv'y	cross	rainy.
Bkt. Josephine, N. 9° 56′ W. 77° 05′*†	29.97	761.2	83	28.3	70	nnw.			3		10			0	0	long	nne.	cloudy.
Bk. Kate Cann, N. 48° 00′, W. 14° 42′*†	29.95	760.7				wsw.			3		10		nw.	1 h'r	1 h'r	rg'h	nw.	light rain.
Bkt. Kryolith, N 43° 40′ W. 13° 07′*†	30.12	765.0				wnw.			7		8		wnw.	0	0	hv'y	nnw.	cloudy.
S. Lake Erie, N. 45° 45′, W. 28° 43′	30.22	767.6				wsw.			6		10		wnw.	0	0	mod	n.	hazy.
S. S. Lamperts, N. 48° 39′, W. 5° 09′*	29.54	750.3	52.0	11.1	86	wnw.			7		10					6		raining.
Bk. Liberia, N. 9° 06′, W. 15° 16′*†	30.10	764.5	76	24.4	90	nw.			2		4		ne.	0	0			
Light House Tender, Laurel, Key West, Florida†	30.03	762.7	81	27.2		sw.			3		1		sw.	0	0			clear.
Schr. Maggie Abbot, Baracoa, Cuba, W. I*†	30.00	762.0																
S. S. Malabar, Suez Canal*†	29.72	754.9																
Bg. Medina, Key Francis, W. I.†	30.17	766.3				se.			1		1		se.					fine.
S. S. Nebo, S. 23° 43′, W. 41° 11′*†	30.00	762.0				sw.			3		8?			0	0	long	ssw.	clear.?
S. S. New York, N. 36° 34′ W. 2° 55′*†	30.30	769.6				wsw.							wsw.	0	0	h'vy	wsw.	fair.
Bk Peppina, Bordeaux, France†	29.90	759.4	59	15.0	67	w.			6		5		w.					raining.
S. Salisbury, S. 6° 08′ W. 28° 07′*.	30.04	703.0	89.6	32.0	79	ese.			3		5		ese.	0	0	mod	ese.	fair.
Schr. S. B. Hubbard, N. 34° 31′, W. 75° 55′*†	29.62	752.3	68	20.0		wnw.			1		10			4 h'r	4 h'r	con		threatening.
Bkt. Spotless, S. 15° 37′, W. 34° 39′*†	30.00	762.0				n.							n.			mod.	sw.	
Bk. Stella, S. 35° 31′, W. 85° 08′*	30.00	762.0	61.7	16.5	88	wsw.			4		5		sw.	0	0	mod.	w.	squally.
S. Washington, N. 43° 16′, W. 41° 58′*†	29.75	755.9				sse.			4		2		sse.	12 h'r	12 h'r	hv'y	s.	fair.
Bg. Wauburn, N. 9° 31′, W. 46° 51′*†	30.00	762.0				ene.			6		5		ene.			sm'h		
S. Wm. Woodbury, N. 37° 53′, W. 45° 18′*†	29.88	758.9	68	20.0		ssw.			7				wsw.			light	wsw.	cloudy.

International Chart I. April 23, 1882. Isobars and Isotherms.



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON APRIL 24, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours	.....	.....	30.17	766.2	74.8	23.8	86	ne.	.....	.....	2	.....	0	.....	.....	0	0	clear	Moiroud.
Algiers	.....	.....	30.15	765.9	67.3	19.6	61	wnw.	.....	.....	6	.....	2	.....	.....	0	0	very fair	Nicolas.
La Calle	.....	.....	30.13	765.2	73.0	22.8	57	sw.	.....	.....	1	.....	3	.....	.....	0.059	1.5	pretty fair	Fonfrède.
Tunis	.....	.....	30.04	763.1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.23	767.9	64.9	18.3	45	nnw.	.....	.....	2	.....	1	.....	.....	0	0	very fair	Dumas.
Tebessa	.....	.....	30.19	766.7	65.8	18.8	47	se.	.....	.....	4	.....	4	.....	.....	0	0	cloudy	Derché.
Geriville	.....	.....	.....	.....	60.4	15.8	20	nnw.	.....	.....	2	.....	8	.....	.....	0	0	very cloudy	Lonchamp.
Laghouat	.....	.....	30.22	767.6	73.4	23.0	50	sw.	.....	.....	1	.....	4	.....	.....	0	0	cloudy	Abraham.
Biskra	.....	.....	30.19	766.7	71.2	21.8	48	wnw.	.....	.....	2	.....	3	.....	.....	0	0	pretty fair	Malau.
Australian.																			
Melbourne, Victoria	29.72	754.9	29.81	757.2	54.0	12.2	86	n.	11	4.9	.....	.....	2	.....	.....	0.14	3.6	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.29	744 0	29.83	757.6	65.1	18.4	42	w.	.....	.....	6	.....	5	.....	.....	0	0	.....	Prof. Ivan Stozir.
Cracow, I. R Observatory	28.89	733.7	29.61	752.2	75.0	23.9	30	s.	9.8	4.4	.....	.....	1	.....	.....	0	0	.....	Dr. Wierzbiski.
Eperies	28.89	733.8	29.69	754.2	70.2	21.2	44	s.	.....	.....	5	0	7 s	.....	n.	0	0	.....	Julius Mikolik.
Gratz	28.52	724.5	29.73	755.1	68.7	20.4	49	s.	.....	.....	3	.....	6	.....	.....	0	0	.....	Andreas Rospini.
Hermannstadt	28.45	722.6	29.82	757.3	73.2	22.9	32	e.	.....	.....	3	.....	0	.....	.....	0	0	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.34	719.9	29.64	752.9	63.1	17.3	58	nw.	.....	.....	1	.....	8	.....	.....	0.008	0.2	cloudy	The Staff.
Lemberg	28.79	731.2	29.73	755.2	70.5	21.4	38	sw.	.....	.....	2	.....	3	.....	.....	0	0	.....	Dr. T. Stanecki.
Pola	29.82	757.3	29.93	760.1	61.7	16.5	76	sse.	.....	.....	3	.....	10	.....	.....	0	0	.....	I. R. Hydrographic Office.
Szathmar	29.34	745.2	29.79	756.6	74.3	23.5	26	s.	.....	.....	3	.....	0	.....	.....	0	0	.....	Joseph Midlinszky, S. J
Szegedin	29.55	750.5	29.82	757.4	69.8	21.0	41	sw.	.....	.....	2	.....	0	.....	.....	0	0	.....	Karl Stancel.
Trieste	29.82	757.3	29.92	759.9	65.5	18.6	61	sw.	.....	.....	1	.....	10	.....	.....	0	0	.....	Rieder.
Vienna	28.93	734.8	29.61	752.1	74.3	23.5	29	s.	.....	.....	2	.....	9	.....	.....	0	0	.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.03	737.3	29.13	739.9	50.4	10.2	75	ssw.	7	3.1	.....	.....	7	.....	.....	0.120	3.0	d. clouds	W. Boswell.
Armagh, Observatory	29.24	742 7	29.49	749.0	48.1	8.9	74	wnw.	16	7.2	.....	.....	7	.....	.....	.....	.....	d. clouds	S. Call.
Bidston, Liverpool Obs'y	.....	.....	29.42	747.3	50.1	10.1	75	w.	38	17.0	.....	.....	3	.....	.....	.....	.....	d. clouds	John Hartnup.
Bolton, Sharples	28.87	723.3	29.39	746.5	47.8	8.8	75	wsw.	36	16.1	.....	.....	9	.....	.....	.....	.....	d. clouds	Thomas Mackereth, [A.S.
Bradford, Yorkshire	28.97	735.8	29.36	745.7	50.1	10.1	68	w.	.....	.....	3	.....	4	.....	.....	0.24	6.1	d. clouds	J. McLandsborough, F. R
Bridgetown, Barbadoes	29.98	761.5	30.01	762.2	84.0	28.9	67	ne.	.....	.....	2	.....	2	.....	.....	.....	.....	d. clouds	Corpl. J. Surgenor, A. H.C.
Cardington	.....	.....	29.46	748.3	57.0	13.9	71	w.	.....	.....	1.0	.....	8	.....	.....	.....	.....	overcast	John McLaren.
Chatham, School M. E.	29.38	746.2	29.51	749.5	50.5	10.3	86	sw.	.....	.....	1	.....	8	.....	.....	blank	blank	d. clouds	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	29.52	749 8	29.75	755.6	54.0	12.2	60	w.	.....	.....	4	.....	6	.....	.....	.....	.....	d. clouds	The Staff.
Fort Napier, Natal	27.61	701.3	29.83	757.7	81.0	27.2	24	e.	.....	.....	1	.....	1	.....	.....	.....	.....	blue sky	Pvt. E. K Annis, A. H.C.
Free Town, Sierra Leone	29.60	751.8	29.83	757.7	89.0	31.7	66	nw.	.....	.....	1	.....	5	.....	.....	.....	.....	d. clouds	Sergt. John Robinson.
Gibraltar, Mediterranean	30.16	766.1	30.21	767.3	70.9	21.6	73	w.	.....	.....	3	.....	5	.....	.....	.....	.....	d. clouds	Opl. O. Baldwin.
Glasgow, Observatory	28.97	735.8	29.17	740.9	48.5	9.2	71	nw.	.....	.....	3	.....	10 n;k	.....	.....	.....	.....	d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.35	745.5	29.52	749.8	50.9	10.5	89	wnw.	.....	.....	5	.....	10	.....	.....	.....	.....	showery	The Staff.
Guernsey	29.44	747.8	29.74	755.4	55.0	12.8	80	wnw.	.....	.....	3	.....	6	.....	.....	blank	blank	d. clouds	A. Collenette, F. M. S.
Kew, Observatory	29.49	749.0	29.53	750.0	54.1	12.3	63	w.	20	8.9	.....	.....	8	.....	.....	.....	.....	threatening	The Staff.
Leicester, Museum	29.21	741.9	29.47	748 5	48.6	9.2	74	nw.	.....	.....	2	.....	5	.....	.....	.....	.....	d. clouds	J. C. Smith.
Malta, Mediterranean	29.99	761.7	30.07	763.8	67.6	19.8	72	nw.	.....	.....	2	.....	6	.....	.....	.....	.....	d clouds	I. H. Whysall.
Nassau, Bahamas	29.97	761.2	30.02	762.5	83.0	28.3	78	sw.	.....	.....	2	.....	8	.....	.....	.....	.....	overcast	C. S. Duncombe.
Oscott, St. Mary's College	28.95	735.3	29.47	748.5	53.2	11.8	63	sw.	.....	.....	4–5	.....	4	.....	.....	.....	.....	squally	John Mac Email.
Oxford, Radcliffe Obs'y	29.29	744.0	29.52	749.8	54.0	12.2	60	wsw.	.....	.....	5	.....	7	.....	.....	.....	.....	threatening	The Staff.
Plymouth	29.61	752.1	29.69	754.1	56.0	13.3	71	w.	.....	.....	4	.....	8	.....	.....	.....	.....	d clouds	John Merrifield.
Sandwick Manse, Orkneys	.....	.....	29.14	740.1	46.5	8.1	97	nnw.	29	13.0	.....	.....	10	.....	.....	.....	.....	raining	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.90	759.4	29.96	761.0	63.0	17.2	61	sw.	.....	.....	1	.....	1	.....	.....	.....	.....	blue sky	W. H. Lyue.
Sheffield	29.08	738.6	29.36	745.7	54.0	12.2	68	w.	.....	.....	5	.....	3	.....	.....	0.03	0.8	d. clouds	W. F. Cooper.
Silloth Rectory	29.23	742 4	29.26	743.2	49.0	9.4	87	nw.	.....	.....	4	.....	10	.....	.....	0.070	1.8	raining	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	29.40	746.7	49.0	9.4	71	w.	29	13.0	.....	.....	10	.....	.....	.....	.....	overcast	Rev. S. J. Perry.
Strathfield Turgiss	.....	.....	.....	.....	50.2	13.4	65	nw	.....	.....	3–5	.....	5	.....	.....	.....	.....	squally	Rev. C.H. Griffiths, F.M.S
Truro, Royal Institution	29.70	754.4	29.73	755.1	58	14.4	76	nw.	.....	.....	0	.....	6	.....	.....	.....	.....	d. clouds	W. Newcombe.
Valencia, Observatory	29.73	755.1	29.75	755.6	49.4	9.7	84	nw.	25	11.2	.....	.....	9	.....	.....	blank	blank	squally	The Met'g'l Office.
Canadian.																			
Bathurst, N. B	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.77	756.1	29.82	757.4	31	— 0.6	71	n.	10	4.5	.....	0	5 s	.....	n.	0.040	1.0	fair	H. J. Cundall, C. E.
Chatham, N. B*	29.83	757.7	29.89	759.2	33	0.6	88	nw.	4	1.8	.....	.....	10 s	.....	nw.	0	0	cloudy	G. A. Blair.
Father Point, Quebec*	30.02	762.5	30.04	763.0	27	— 2.8	88	n.	25	11.2	.....	.....	10 s	.....	calm	0.27	6.9	threatening	J. McWilliams.
Fort Garry, Manitoba*	29.30	744.2	30.12	765.0	38	3.3	69	se.	18	8.0	.....	5 k	5 ks	s.	s.	0	0	cloudy	James Stewart.
Halifax, N. S*	29.69	754.1	29.82	757.4	32	0.0	88	n.	8	3.6	.....	.....	10 k	.....	n.	0.01	0.3	cloudy	A. Allison.
Kingston, Ontario*	29.83	757.7	30.18	766.6	31	— 0.6	68	n.	8	3.6	.....	0	0	.....	.....	0	0	clear	A. P. Knight, M. A.
Montreal, Quebec*	29.89	759.2	30.11	764.8	31	— 0.6	62	n.	10	4.5	.....	0	0	.....	.....	0	0	clear	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.57	751.1	30.31	769.9	28	— 2.2	77	n.	12	5.4	.....	0	0	.....	.....	0	0	clear	Rev. R. Mosley.
Port Dover, Ontario	29.52	749.8	30.24	768.1	33	0.6	89	ne.	14	6.3	.....	5 c	0	n.	.....	0	0	fair	H. Morgan.
Port Stanley, Ontario	29.55	750.6	30.23	767.8	34	1.1	80	ne.	10	4.5	.....	8 ck	0	w.	.....	0	0	cloudy	M. Payne.
Quebec, Quebec*	29.71	754.6	30.05	763.3	30	— 1.1	84	ne.	.....	.....	1	.....	10 n	.....	ne.	0.08	2.0	light haze	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.81	757.2	30.30	769.6	26	— 3.3	48	nw.	6	2.7	.....	0	0	.....	.....	0	0	clear	W. H. McIntyre.
Sangeen, Ontario*	29.54	750.3	30.29	769.4	33	0.6	78	ne.	10	4.5	.....	0	0	.....	.....	0	0	clear	
St. Andrews, N. B	29.82	757.4	29.87	758.7	33	0.6	88	ne	3	1.3	.....	.....	10 n	.....	.....	0.16	4.1	light snow	
Sydney, C. B*	29.67	753.6	29.73	755.1	33	0.6	74	n.	5	2.2	.....	10 k	0	nw.	.....	0	0	fair	T. C. Hill, C. E.
Toronto, Ontario*	29.88	758.9	30.28	769.1	32	0.0	45	n.	12	5.4	.....	5 cs	0	.....	.....	0	0	fair	Magnetic Observatory.
Yarmouth, N. S*	29.76	755.9	29.83	757.7	34	1.1	92	nw.	1	0.4	.....	.....	10 s	.....	n.	0.03	0.8	light snow	Lt. F. E. Wilmot, R. N.
Sub-series.																			
St. Johns, Newfoundland	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	29.94	760.5	29.97	761.2	69.0	20.6	88	w.	12.0	5.4	.....	8 c	0	.....	.....	0	0	.....	John Duthie.
Cape Town, C. G. H. Obs'y	30.03	762.7	30.07	763.8	63.3	17.4	94	.....	.....	.....	.....	9	10	.....	.....	0.270	6.9	.....	The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Chinese (*Sub-series*).																			
Hankow	29.78	756.4	30.06	763.5	57.7	14.3	94	ne.			3		10			0.06	1.5	raining	N. Titoushkin.
Zi-Ka-Wei, near Shanghai	30.01	762.3	30.04	762.9	58.5	14.7	80	ese.	8.9	4.0		10 ck	0			0	0	covered	M. Marc Dechevrens, S.J.
Danish.																			
Copenhagen	29.50	749.3	29.55	750.5	55.2	12.9	72	ssw.	12.3	5.5			10						Oversergent Fischer.
Fanöe	29.43	747.6	29.45	748.1	52.9	11.6	85	sw.			6		3						Overlöerer Lauridsen.
Godthaab, Greenland	30.02	762.6	30.07	763.7	21.6	— 5.8	69	nne.			4		0						S. Kleinschmidt.
Stykkisholm, Iceland	30.16	766.0	30.20	767.1	19.0	— 7.2	65	ne.			8		0						A. O. Thorlacius.
Thorshavn	29.42	747.2	29.45	748.1	39.0	3.9	85	n.	27	12			9					raining	Overlöerer Bergh.
Vestervig	29.28	743.8	29.37	746.1	50.5	10.3	86	s.			6		9						Loetrer Oesterbol.
French.																			
Agen, Normal School	29.38	746.2	30.03	762.8	54.3	12.4	86	w.			1		k;kn			0.307	7.8		M. Labroue, Director.
Alençon, Normal School	29.27	743.5	29.82	757.5	55.0	12.8	93	sw.			1		n	e.	e.	0.20	5.		M. Nicot, Director.
Arras, Engineer School	29.36	745.8	29.62	752.4	52.2	11.2	82	w.			4		10		w.	0.110	2.8	raining	Capt. Bertrand, Dir.
Avginon, Normal School	29.90	759.4	29.98	761.4	63.3	17.4	61	sw.			1		5		sw.	1.18	30.	cloudy	M. Giraud, Director.
Bar-sur-Seine	29.27	743.5	29.83	757.6	53.6	12.0	65	sw.			2		8		wsw.	0.059	1.5	very cloudy	M. Saillard, Director.
Beauvais, Normal School	29.44	747.8	29.71	754.5	57.7	14.3	62	sw.			3		8		wsw.	0.067	1.7	very cloudy	M. Frère Eugène Marl.
Besançon, Normal School	28.91	734.4	29.80	756.8	54.0	12.2	74	n.			3	0	8 cn		s.	0.004	0.1	very cloudy	M. Gobin, Director.
Bordeaux, Observatory	29.70	754.3	29.96	760.9	59.4	15.2	48	w.			1		8		wnw.	0.189	4.8	very cloudy	M. Rayet, Director.
Bourges, Normal School	29.32	744.6	29.91	759.6	56.5	13.6	67	wsw.			2		k		wsw.	0.075	1.9		M. Postel, Director.
Brest, Naval Observatory	29.65	753.0	29.89	759.2	57.9	14.4	67	w.			3		7		w.	0.138	3.5		M. de Kermaree, Dir.
Caen, Normal School	29.63	752.6	29.71	754.5	57.9	14.4	67	w.			2		10		w..	0.252	6.4	covered	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.39	746.6	29.72	754.8	59.7	15.4	45	ssw.			6		8		wsw.	0.008	0.2	very cloudy	M. Jadot, Director.
Charleville, Normal School	29.17	741.0	29.68	753.8	55.4	13.0	54	sw.			2		10		s.	0	0	covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.56	725.4	29.93	760.1	50.0	10.0	67	w.			3		8		sw.	0	0	¾ covered	M. Alluard, Director.
Cluny, Normal School	29.11	739.5	29.93	760.2	60.3	15.7	25	s.			2			sw.		0	0		M. de Villemontée, Dir.
Commercy, Normal School	28.93	734.8	29.78	756.5	55.2	12.9	51	sw.			4		5 kn	sw.	sw.	0	0	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.53	699.2	30.09	764.2	52.7	11.5	45					0	3 k		nw.	0.256	6.5		M. Jeangirard, Director.
Gréasque, du. Rhone	28.86	733.0	29.98	761.5	57.7	14.3	57	sw.			3		3		w.	0.634	16.1		M. Kina, Director.
Grenoble, Normal School	29.15	740.5	29.91	759.8	59.4	15.2	39	sse.			1		n			0.16	4.		M. Ablard, Director.
Guéret, Normal School	28.35	720.0	29.89	759.3	48.2	9	86	sw.			3		kn		sw.	0.177	4.5		M. Rivoire, Director.
Lambalie, Normal School	29.54	750.2	29.80	757.0	52.9	11.6	80	w.			2		8		w.	0.138	3.5	very cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.44	747.7	30.00	762.1	55.8	13.2	62	nw.			1		5			0.189	4.8	rain & sleet	M. Chauvin, Director.
Lorient, Naval Observatory	29 78	756.4	29.88	759.0	57.2	14.0	78	w.			4		5		nw.	0.394	10.0	½ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.86	733.1	29.92	759 9	58.1	14.5	54	sse.			1		8		wsw.	0.165	4.2	¾ covered	M. André, Director.
Mans, Normal School	29.50	749.2	29.80	757.0	54.7	12.6	68	ene.			4		8		ene.	0.094	2.4	very cloudy	M. Piboen, Director.
Marseille, Observatory	29.72	755.0	30.00	761.9	58.3	14.6	52	wsw.			3		2		nw.	0	0		M. Stephan, Director.
Montlouis l'Instituteur	24.74	628.3	29.58	751.3	45.5	7.5	51	e.	3.8	1.7			6						M. Cave, for Dr. Fines.
Montpellier, Normal School	29.83	757.6	29.95	760.8	62.8	17.1	63	wnw.			2		2		wsw.	1.721	43.7	slightly cl'dy	M. Galzin, Director.
Nancy, Normal School	29.00	736.5	29.78	756.4	54.0	12.2	52	s.			2	0	5 k			0.098	2.5	cloudy	M. Hasse, Director
Nantes, Observatory	29.72	755.0	29.89	759.1	60.1	15.6	62	nw.			1–3		8k;kn	w.	w.	0.244	6.2		M. Larocque, Director.
Perpignan, Observatory	29.87	758.6	29.98	761.4	63.0	17.2	56	se.	7.4	3.3			7		nw.	0.126	3.2		Dr. Fines, Director.
Pic-du-Midi, Summit	21.08	535.5			22.3	— 5.4		sw.			1		10		sw.	0.213	5.4	snowy	Gen'l de Nansouty, Dir.
Privas, Normal School	28.86	733.0	29.91	759.8	59.0	15	63	s.			1		2 s		s.	0.819	20.8	slightly cl'dy	M. Tallieu.
Puy de Dôme Obs'y, Summit	24.97	634.1			32.0	0.0	98	w.			6		10			0.106	2.7	sleeting	M. Alluard, Director.
Rochefort, Naval Obs'y	29.90	759.4	29.93	760 2	57.6	14.2	98	w.			4		8		w.	0.051	1.3	¾ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.61	752.0	29.82	757.3	57.6	14.2	69	nw.			2		5		nw.	0.51	13.	cloudy	M. Mouillot, Director.
Rodez, Normal School	27.82	706.6	29.99	761.8	45.3	7.4	83	e.			1		10			0.043	1.1	raining	M. Serger, Director.
Rouen, Normal School	29.65	753.0	29.69	754.2	51.4	10.8	86	sw.			1		10	w.		0.130	3.3	raining	M. Brotier.
Saint Maur, Observatory	29.50	749.2	29.66	753.4	57.2	14.0	47	sw.			4		10	wsw.	wsw.	0.043	1.1		M. Renou, Director.
Toulouse, Observatory	29.30	744.2	30.02	762.6	56.8	13.8	68	wsw.			1		5	nw.		0.193	4.9	cloudy	M. Bailland, Director.
Versailles, Observatory	29.24	742.8	29.74	755.3	55.4	13.0	48	w.			6					0.047	1.2		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.45	748.0	29.74	755.4	56.7	13.7	52	sw.			3		10		wsw.	0.031	0.8		M. Marié Davy, Director
German.																			
Bamberg	28.92	734.5	29.76	756.0	54.1	12.3	55	sw.			3	0	7 k		wsw.	0.059	1.5		Prof. Dr. Hoh.
Berlin	29.45	747.9	29.62	752 3	61.7	16.5	72	se.			1		9			0.051	1.3		Prof. Dr. Arndt.
Breslau	29.11	739.3	29.63	752 5	70.5	21.4	38	sw.			2		9			0	0		Royal University Obs'y.
Carlsruhe	29.37	745.9	29.80	756.9	55.6	13.1	57	sw.			6		9	sw.		0.110	2.8		Albert Senz.
Cassel	28.94	735.1	29.65	753.2	57.4	14.1	47	s.			4		8	s.		0.039	1.0		Dr. H. Möhl.
Frankfort on the Main	29.36	745.8	29.72	754.9	59.0	15.0	53	sw.			3		7			0.047	1.2		Physical Society.
Friedrichshafen	28.47	723.0	29.86	758.4	65.1	18.4	87	w.			4		10	w.		0	0		Wilhelm, Chief Tel.
Hamburg	29.49	749.0	29.58	751.4	57.6	14.2	62	ssw.			5		10			0	0		E. Preller.
Kiel	29.52	749.8	29.54	750.2	57.4	14.1	54	sw.			7		10			0	0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.28	743.7	29.69	754.2	55.0	12.8	75	sw.			4		10	wsw.	w.	0.024	0.6	raining	H. Leppig, Asst.
Magdeburg	29.46	748.3	29.65	753.0	58.1	14.5	65	wsw.			3		10 ks		sw.	0.031	0.8		Dr. Assmann.
Memel	29.62	752.4	29.67	753.6	66.9	19.4	47	s.			4		8 cs	0					Issermann.
Munich	28.02	711.6	29.87	758.6	46.8	8.2	74	nw.			2		10	w.		0	0		Central Station
Neufahrwasser	29.54	750.4	29.56	750.8	73.8	23.2	34	se.			2		7			0.016	0.4		A. Lothes.
Neustadt, Palatinate	29.23	742.4	29.74	755.4	55.8	13.2	65	w.			2		4			0.020	0.5		Dicknether.
Stuttgart	28.87	733.3	29.76	755.8	54.0	12.2	68	w.			1		10			0.031	0.8		Prof. Dr. Schoder.
Wustrow	29.58	751.3	29.60	751.9	56.7	13.7	69	calm			0		10 s			0.071	1.8		Profs. Brandes & Reimer.
Greek.																			
Athens	29.61	752.1	29.99	761.8	73.2	22.9		n.			1.5	0				0	0	clear	Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.74	755.5	29.79	756.7	85.0	29.4	64	w.	28.0	12.5			1			0	0	misty	
Deesa	29.23	742.5	29.68	753.9	103.8	39.9	21	nw.	6.9	3.1			0			0	0	blue sky	
Bombay	29.73	755.1	29.76	756.0	85.4	29.7	68	wnw.	13.0	5.8			0			0	0	blue sky	
Poona, Yarrowda	27.87	707.8	29.66	753.4	93.4	34.1	22	wnw.	17.0	7.6			2	wsw.		0	0	d. clouds	
Belgaum	27.22	691.4	29.73	755.2	79.2	26.2	61	sw.	13.0	5.8			4	ne.		0	0	misty	
Lahore	28.97	735.9	29.69	754.2	94.6	34.8	16	e.	1.1	0.5			2			0	0	blue sky	
Roorkee	28.80	731.5	29.68	753.7	92.8	33.8	16	e.	1.2	0.5			1			0	0	blue sky	
Agra	29.12	739.7	29.67	753.5	96.1	35.6	11	w.	3.9	1.7			0			0	0		
Nagpur	28.60	726.6	29.60	751.9	99.7	37.6	9	nw.	4.9	2.2			2	sw.		0	0	d. clouds	
Jubbulpore	28.24	717.4	29.55	750.6	95.2	35.1	9	n.	2.5	1.1			0			0	0	blue sky	
Lucknow	29.37	745.9	29.73	755.2	97.0	36.1	5	calm	1.3	0.6			0			0	0	blue sky	
Allahabad	29.35	745.5	29.65	753.2	95.7	35.4	12	nw.	2.6	1.2			0			0	0	blue sky	
Patna	29.50	749.4	29.68	754.0	93.1	33.9	23	n.	4.1	1.8			2	n.	n.	0.03	0.8		
Hazaribagh	27.70	703.7	29.69	754.1	82.3	27.9	42	n.	9.0	4.0			0			1.21	30.7	raining	
Cuttack	29.60	751.8	29.68	753.9	85.0	29.4	54	calm	2.0	0.9			4			0.05	1.3	d. clouds	
Calcutta, Alipore	29.65	753.1	29.67	756.3	83.5	28.6	57	se.	7.0	3.1			9		sw.	0	0	d. clouds	
Dhubri	29.59	751.5	29.70	754.5	83.5	28.6	66	calm	4.8	2.2			7	sw.		0	0	d. clouds	
Chittagong	29.59	751.5	29.68	753.7	85.5	29.7	73	w.	1.4	0.6			9			0	0	d. clouds	
Sibsagar	29.39	746.5	29.72	755.0	82.4	28.0	73	ne.	3.2	1.4			9	w.	w.	0.03	0.8	d. clouds	
Jeypore	28.28	718.3	29.67	753.4	96.7	35.9	10	nw.	3.7	1.6			1			0	0	blue sky	
Zanzibar, Africa	29.94	760.5			85.1	29.5	71	s.	9.1	4.1			8			0	0	d. clouds	
Bellary	28.20	716.3			99.5	37.5	15	wnw.	9.4	4.2		3 ck	0			0	0	d. clouds	
Trichinopoly	29.42	747 3			99.2	37.3	31	nw.	2	0.9			0			0	0	blue sky	
Italian.																			
Udine	29.52	749.7	29.92	760.0	62.4	16.9	79	se.	2.5	1.1			10			0	0		Prof. Giovanni Clodig.
Milan	29.34	745.2	29.85	758.2	61.2	16.2	65	se.	4.3	1.9			4	s.		0.154	3.9		Prof. Schiaparelli.
Padua	29.76	755.9	29.87	758.7	65.1	18.4	47	se.	6.3	2.8			9	sw.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	28.91	734.2	29.80	757.0	58.3	14.6	64	nw.	4.9	2.2			7	ne.		0	0		Prof. P. F. Denza.
Genoa	29.73	755.1	29.92	759.9	58.3	14.6	64	s.	13.0	5.8			10	s.		0.177	4.5		Prof. G. M. Garibaldi.
Mondovi	27.90	708.6	29.86	758.4	57.0	13.9	60	se.			4		1	w.		0.413	10.5		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
ITALIAN.—Continued.																			
Pesaro	29.87	758.6	29.91	759.8	66.9	19.4	42	e.	9.4	4.2	.....	.....	10	sw	.....	0	0	.....	Prof. Luigi Guidi.
Florence	29.72	754.8	29.97	761.2	63.3	17.4	45	sw.	.....	.....	6	.....	3	s.	.....	0.118	3.0	.....	Prof. Costantino Pitter.
Leghorn	29.85	758.1	29.93	760.2	61.9	16.6	55	w.	8.1	3.6	.....	.....	8	w.	.....	0.031	0.8	.....	Prof. P. Monte.
Rome	29.82	757.5	30.00	761.9	66.6	19.2	56	sw.	8.7	3.9	.....	.....	9	.....	.....	0.083	2.1	.....	Prof. P. S. Ferrari.
Lecce	29.75	755.6	30.00	761.9	55.0?	12.8?	50	s.	13.0	5.8	.....	.....	3	.....	.....	0	0	.....	Prof. C. de Giorgi.
Cosenza	29.15	740.5	30.04	762.9	68.4	20.2	76	ese.	2.5	1.1	.....	.....	9	se.	.....	0	0	.....	Prof. D. Conti.
Cagliari	29.82	757.3	30.01	762.2	67.6	19.8	50	se.	.....	.....	4	.....	5	nw.	.....	0.008	0.2	.....	Prof. A. Pacinotti.
Palermo	29.83	757.6	30.08	763.9	64.8	18.2	61	w.	5.6	2.5	.....	.....	10	wnw.	.....	0	0	.....	Prof. G. Ciacciatore.
Syracuse	29.99	761.8	30.04	762.9	69.1	20.6	74	sse.	6.3	2.8	.....	.....	10	sw.	.....	0	0	.....	Prof. Vincenzo Gulliano.
Sub-series.																			
Naples, S. R	29.52	749.7	30.04	762.9	63.7	17.6	71	wsw.	0.7	0.3	.....	.....	10	w.	.....	0	0	.....	Prof. T. Brioschi.
Stelvio	21.94	557.2	.....	.....	32.7	0.4	85	w.	.....	.....	6	.....	10	.....	.....	0.283	7.2	misty	Prof. P. F. Denza.
Valdobbia	21.97	558.3	.....	.....	36.1	2.3	77	e.	.....	.....	6	.....	10	.....	.....	0.177	4.5	covered	Prof. P. F. Denza.
JAPANESE.																			
Aomori	30.04	763.0	30.08	764.0	43.5	6.4	87	n.	3.2	1.4	.....	0	0	.....	.....	0	0	clear	K. Ogawa.
Hakodate	30.09	764.3	30.10	764.5	38.0	3.3	91	nne.	9.0	4.0	.....	.....	1	.....	.....	0	0	clear	
Hiroshima, I. M. Obs'y	30.04	763.0	30.05	763.3	57.0	13.9	65	nne.	7.5	3.3	.....	0	0	.....	.....	0	0	clear	K. Sasaki.
Kanazawa	30.01	762.2	30.11	764.8	52.9	11.6	87	nnw.	4.8	2.1	.....	ck	10 ksnp	.....	.....	0.030	0.8	overcast	S. Endo.
Kioto	29.89	759.2	30.07	763.8	51.3	10.7	81	nnw.	0.5	0.2	.....	0	0	.....	.....	0	0	clear	M. Tojima.
Kochi	30.02	762.5	30.04	763.0	60.5	15.8	84	nw.	2.8	1.3	.....	5 c;cs	0	.....	.....	0	0	fair	
Nagasaki, I. M. Obs'y	29.85	758.2	30.06	763.5	58.8	14.9	69	nne.	6.9	3.1	.....	10 cs	0	.....	.....	0	0	cloudy	S. Takehayashi.
Niigata	30.05	763.3	30.08	764.0	51.6	10.9	85	nne.	2.2	1.0	.....	10 cks	0	n.	.....	0	0	covered	
Nobiru	30.05	763.3	30.07	763.8	48.7	9.3	82	ene.	4.7	2.1	.....	.....	10 s	.....	.....	0	0	covered	H. Midzushina.
Supporo	.....	.....	.....	.....	40.2	4.6	86	calm	0	0	.....	.....	0	.....	.....	0	0	clear	
Tokei Obs'y, Yeddo	30.00	762.0	30.07	763.8	52.5	11.4	96	calm	0	0	.....	3ck;cs	0	.....	.....	inap.	inap.	fair	The Staff.
Wakayama	29.99	761.7	30.04	763.0	58.3	14.6	62	ene.	7.4	3.3	.....	0	0	.....	.....	0	0	clear	Y. Kuwamuea.
MAURITIUS.																			
Mauritius Observatory	29.85	758.2	30.04	763.0	79.0	26.1	67	ese.	20.0	8.9	.....	0	4 k	.....	ese.	0.03	0.8	fair	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.70	601.9	29.92	759.9	59.4	15.2	58	n.	.....	.....	.....	0	0	.....	.....	0	0	foggy	Vicente Fernandez.
Leon	24.40	619.7	30.09	764.3	57.9	14.4	68	wnw.	.....	.....	1	5 c	0	w.	.....	0	0	hazy	Prof. M. Leal.
Mazatlan	29.69	754.1	29.95	760.7	64.0	17.8	78	ne.	0.9	0.4	.....	2 cs	0	.....	.....	0	0	foggy	F. Quijano, C. E.
Mexico, Central Obs'y	23.10	586.8	30.15	765.7	57.7	14.3	52	calm	0	0	.....	0	0	.....	.....	0	0	foggy	The Staff.
Morelia	24.49	622.1	30.65	778.6	61.7	16.5	77	se.	.....	.....	2	0	0	.....	.....	0	0	clear	M. Tena, M. D.
Pabellon, Aguascalientes	23.98	609.2	30.02	762.6	57.7	14.3	35	calm	.....	.....	0	1 cs	0	.....	.....	0	0	clear	M. V. de Leon, M. E.
Puebla, Catholic Institute	23.39	594.0	30.08	764.0	57.0	13.9	90	ene.	.....	.....	.....	0	1	.....	ene.	0	0	clear	Prof. P. Spina.
San Luis Potosi	24.18	614.2	30.14	765.6	63.0	17.2	54	se.	.....	.....	.....	5	0	w.	.....	0	0	½ clouded	G. Barroeta, M. D.
Zacatecas	22.57	573.2	30.19	766.7	57.2	14.0	35	calm	0	0	0	0	2 s	.....	.....	0	0	clear	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.55	750.5	29.55	750.5	54.0	12.2	.....	sw.	.....	.....	5	.....	.....	.....	.....	0.031	0.8	.....	
Groningen	29.45	748.0	29.50	749.4	53.2	11.8	.....	s.	.....	.....	5	.....	.....	.....	.....	0.024	0.6	.....	
Helder	29.44	747.7	29.44	747.7	50.0	10.0	.....	ssw.	.....	.....	6	.....	.....	.....	.....	0.087	2.2	.....	
Hellevoetsluis	29.51	749.5	29.51	749 5	51.6	10.9	83	sw.	.....	.....	4	.....	.....	.....	.....	0.102	2.6	.....	
Utrecht	29.50	749.3	29.55	750.5	51.6	10.9	80	ssw.	.....	.....	4	.....	10	.....	.....	0.276	7.0	raining	H. van der Brink.
NORWEGIAN.																			
Bergen	29.12	739.7	29.19	741.3	48.6	9.2	84	s.	18	8	.....	.....	10	.....	.....	0.236	6.0	raining	
Brono	29.25	742.9	29.29	743.9	46.0	7.8	64	e.	4	2	.....	.....	9	.....	.....	0.197	5.0	.....	
Christiania	29.25	743.0	29.40	746.7	50.4	10.2	95	s.	9	4	.....	.....	9	.....	.....	0.437	11.1	.....	
Gjesvær	29.64	752.8	29.66	753.4	36.3	2.4	.....	calm	.....	.....	0	.....	5	.....	.....	.....	.....	.....	
Lodingen	29.40	746.8	29.45	748.0	32.9	0.5	89	ne.	.....	.....	6	.....	10	.....	.....	.....	.....	snowing	
PORTUGUESE.																			
Angra, Azores	.....	.....	.....	.....	61.5	16.4	72	wsw.	8.1	3.6	.....	.....	4	.....	.....	0	0	.....	Dr. J. A. Sampaio.
Campo Major	29.16	740.6	30.15	765.9	64.4	18.0	62	wnw.	8.7	3.9	.....	.....	7	.....	.....	0	0	.....	Dr. A. M. R. dos Santos.
Funchal, Maderia	30.31	769.8	30.39	772.0	67.6	19.8	54	sw.	.....	.....	.....	.....	3	.....	.....	0	0	.....	Capt. D. A. de Cunha.
Lisbon, Observatory	29.93	760.2	30.29	769.4	60.3	15 7	79	wnw.	18.1	8.1	.....	.....	9	.....	.....	0	0	.....	The Staff.
Ponta Delgada, Azores	30.47	774.0	30.54	775.8	63 3	17.4	65	sw.	8.7	3.9	.....	.....	3	.....	.....	0	0	.....	
Saint Paul de Loando	29.71	754.5	29.91	759.6	80.4	26.9	89	wnw.	0.7	0.3	.....	.....	2	sse.	.....	0	0	.....	
Serra da Estrella	25.31	642.9	30.12	765.1	41.4	5.2	100	nw.	39.8	17.8	.....	.....	10	.....	.....	3.161	80.3	foggy	
RUSSIAN.																			
Akmolinski	29.10	739.1	30.22	767.7	32.9	0.5	80	wsw.	13	6	.....	.....	9 ks	.....	.....	0	0	.....	Major K. Lasarew.
Archangel	30.11	764.8	30.13	765.3	37.2	2.9	61	calm	0	0	.....	0	0	.....	.....	0	0	.....	Capt. Sselliwerstow.
Astrakhan	29.83	757.7	29.75	755.6	54.7	12.6	55	n.	9	4	.....	0	7 k	.....	.....	0	0	.....	Capt. Wisganow.
Barnaul	29.60	751.8	30.11	764.7	43.7	6.5	46	w.	9	4	.....	.....	9	.....	.....	0	0	.....	Meteorological Obs'y.
Dorpat	29.64	752.8	29.88	758.9	54.3	12.4	52	se.	9	4	.....	4 c	0	.....	.....	0	0	.....	Observatory.
Ekaterinburg	29.17	741.0	30.16	766.1	41.2	5.1	60	e.	4	2	.....	.....	10	.....	.....	0	0	.....	Meteorological Obs'y.
Kasan	29.75	755.7	30.03	762.7	46.0	7.8	58	se.	7	3	.....	.....	4	.....	.....	0	0	.....	Observatory.
Kertch	29.77	756.1	29.79	756.6	55.9	13.3	74	se.	9	4	.....	0	4 k	.....	.....	0.071	1.8	.....	Lagorio & Sastyrez.
Kieff	29.18	741.2	29.80	757.0	59.0	15.0	41	nne.	7	3	.....	c;cs	1 k	.....	.....	0	0	.....	Observatory.
Lugan	29.59	751.5	29.79	756.7	50.4	10.2	61	sw.	2	1	.....	.....	10	.....	.....	0	0	.....	Meteorological Obs'y
Moscow	29.39	746.0	29.89	759.1	36.0	2.2	77	n.	4	2	.....	.....	10 s	.....	.....	0.004	0.1	.....	Meteorological Obs'y.
Nikolaiev	29.79	756.7	29.86	758.5	68.0	20.0	40	calm	0	0	.....	cs	7 n	.....	.....	0	0	.....	Capt. Kurdakow.
Nikolaievsk, on the Amoor	29.33?	745.0?	29.42?	747.2?	39.2	4.0	80	calm	0	0	.....	.....	10	.....	.....	0	0	.....	Lieut. Iwanow.
Pekin, China	29.84	757.8	29.98	761.4	67.8	19.9	43	calm	0	0	.....	0	5 ks	.....	.....	0	0	.....	Physical Observatory
St. Petersburg	29.97	761.3	29.99	761.7	45.3	7.4	43	se.	11	5	.....	1 c;cs	0	.....	.....	0	0	.....	Central Physical Obs'y
Ssemipalatinsk	29.57	751.1	30.24	768.2	43.5	6.4	48	calm	0	0	.....	0	4	.....	.....	0	0	.....	Major Lasaren.
Tashkend, Laboratory	28.48	723.5	30.00	762.1	72.0	22.2	65	calm	0	0	.....	.....	0	.....	.....	0	0	.....	Teich, A. M.
Tiflis	28.38	720.8	29.80	757.0	49.5	9.7	58	nw.	20	9	.....	.....	10	.....	.....	0.083	2.1	.....	Physical Observatory
Vladivostok	30.01	762.3	30.08	764.0	37.8	3.2	100	s.	4	2	A	.....	10 n	.....	.....	0	0	.....	
Warsaw	29.28	743.6	29.68	753.8	72.3	22.4	33	sse.	13	6	.....	10 cs	0	.....	.....	.....	.....	solar corona	Astronomical Obs'y
Wilna	29.40	746.7	29.80	757.0	65.8	18.8	45	sse.	7	3	.....	.....	5	.....	.....	0	0	light clouds	Berg, Assistant.
Yeniseisk	29.67	753.5	29.96	761.0	38.1	3.4	57	w.	7	3	.....	.....	8	.....	.....	0	0	.....	M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	29.93	760.2	30.03	762.8	65.5	18.6	54	sw.	3.6	1.6	.....	.....	2	.....	.....	0.559	14.2	.....	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.01	762.3	30.07	763.8	58.1	14.5	84	nw.	3.6	1.6	.....	.....	10	.....	.....	0.193	4.9	covered	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.09	688.1	30.07	763.7	54.9	12.7	61	sw.	12.5	5.6	.....	.....	10	.....	.....	0	0	covered	Domingo Martin.
Madrid, Royal Obs'y	27.86	707.7	30.11	764.7	54.3	12.4	68	w.	16.8	7.5	.....	.....	10	.....	.....	inap.	inap.	covered	The Staff.
Murcia, Met. Obs'y	29.94	760.4	30.09	764.2	73.9	23.3	39	nw.	2.2	1.0	.....	2	4	ese.	.....	0	0	cloudy	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.20	741.6	30.10	764.5	56.7	13.7	80	nw.	12.5	5.6	.....	.....	7	.....	.....	0.969	24.6	cloudy	R. Gil Valkanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I	29.92	759.9	29.98	761.5	75.7	24.3	80	calm	0	0	.....	0	0	.....	.....	0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.82	757.3	29.87	758.8	83.8	28.8	78	ese.	2.6	1.2	.....	0	3 ck	.....	e.	0	0	clear	F. Faura, S. J.
San Fernando, Naval Obs'y	30.16	766.0	30.26	768.5	62.8	17.1	65	nw.	3.6	1.6	.....	0	4	.....	nw.	0	0	.....	Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	29.96	761.0	30.05	763 3	74.5	23.6	95	s.	5.4	2.4	.....	6 k	7 kn	s.	s.	0.039	1.0	raining	Manuel Maeu.
Tuguegarao, Philippine Id's	29.76	755.9	29.89	759.2	78.0	25.6	84	nw.	1.1	0.5	.....	0	1 ck	.....	sse.	0.03	0.8	clear	José L. Yrastorza.
SWEDISH																			
Haparanda	29.71	754.6	29.75	755.6	36.0	2.2	75	s.	.....	.....	4	.....	10	.....	.....	0.480	12.2	.....	
Umea	29.57	751.1	29.62	752.4	35.6	2.0	100	sw.	.....	.....	4	.....	10	.....	.....	0.457	11.6	.....	
Hernosand	29.47	748.6	29.52	749.9	38.3	3.5	88	s.	.....	.....	2	.....	10	.....	.....	0.437	11.1	.....	
Stockholm	29.37	745.9	29.54	750.4	63.0	17.2	52	se.	.....	.....	2	.....	7	.....	.....	0.024	0.6	.....	
Wisby	29.52	749.7	29.58	751.2	51.8	11.0	70	wnw.	.....	.....	2	.....	5	.....	.....	0	0	.....	
Sub-series.																			
Upsala	29.43	747.6	29.52	749.8	58.5	14.7	67	sse.	6.0	2.7	.....	.....	10	.....	sw.	0.256	6.5	.....	S. G. Fineman.
SWISS.																			
Geneva	28.50	723.8	29.93	760.1	54.3	12.4	49	ssw.	.....	.....	5	.....	.....	.....	.....	0.571	14.5	.....	The Observatory

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Turkish.																			
Constantinople	.....	.....	30.00	762.0	65.8	18.8	36	se.	6	2.5	.....	.....	0	.....	.....	0	0	.....	The Observatory.
Valona	.....	.....	30.08	763.9	71.2	21.8	.....	sw.	.....	.....	1	.....	2	.....	.....	0	0	slightly cld'y	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	29.82	757.4	70.5	21.4	74	sw.	.....	.....	2	0	7 ks	.....	sw.	0.63	16.0	.....	Prof. C. V. A. van Dyck.
United States.																			
Albany, New York	30.00	762.0	30.08	764.0	42.3	5.7	51	n.	4	1.8	.....	0	c	.....	.....	0	0	clear	J. O. Barnes.
Alpena, Michigan	29.67	753.6	30.36	771.1	34	1.1	61	ne.	6	2.7	.....	4 c	0	nw.	.....	0	0	fair	Jas. J. Fitzgerald.
Atlanta, Georgia	28.87	733.3	30.06	763.5	51.0	10.6	83	ne.	5	2.2	.....	2 k	0	calm	.....	0	0	clear	H. Hall.
Atlantic City, New Jersey	30.04	763.0	30.05	763.3	41.3	5.2	65	n.	9	4.0	.....	0	0	.....	.....	0	0	clear	Jas. M. Watson.
Augusta, Georgia	29.90	759.4	30.09	764.3	55	12.8	74	ne.	7	3.1	.....	.....	10 s	.....	ne.	0.02	0.5	cloudy	John Healy.
Baltimore, Maryland	30.07	763.8	30.12	765.0	42	5.6	51	n.	8	3.6	.....	0	0	.....	.....	0	0	clear	Robert Seyboth.
Barnegat, New Jersey	30.04	763.0	30.06	763.5	40.7	4.8	63	n.	15	6.7	.....	0	1 g	.....	.....	0	0	clear	Chas. F. Merritt.
Bismarck, Dakota	28.66	712.7	29.93	760.2	41	5.0	82	se.	12	5.4	.....	.....	10 s	.....	.....	0.05	1.3	cloudy	Cyrus Cramer.
Boise City, Idaho	26.89	683.0	29.73	755.1	40	4.4	67	w.	10	4.5	.....	0	0	.....	.....	0	0	clear	B. E. Light.
Boston, Massachusetts	29.85	758.2	30.01	762.2	35.0	1.7	53	nw.	14	6.3	.....	0	0	.....	.....	0	0	clear	O. B. Cole.
Brownsville, Texas	29.87	758.7	29.92	760.0	71	21.7	82	se.	4	1.8	.....	hz.	0	.....	.....	0	0	clear	J. C. Galloway.
Buffalo, New York	29.45	748.0	30.22	767.6	32.9	0.5	59	ne.	8	3.6	.....	6 c[cs	0	w.	.....	0	0	dense haze	Wm. Finn.
Burlington, Vermont	29.79	756.7	30.09	764.3	31.3	— 0.4	64	n.	13	5.8	.....	0	0	.....	.....	inap.	inap.	clear	G. C. Schaeffer.
Cairo, Illinois	29.73	755.1	30.14	765.5	48.7	9.3	73	e.	6	2.7	.....	10 ck	0	w.	.....	inap.	inap.	cloudy	W. H. Ray.
Campo, California	27.43	696.7	30.01	762.2	34	1.1	81	sw.	2	0.9	.....	0	0	.....	.....	0	0	clear	W. H. Clendenon.
Camp Thomas, Arizona	27.15	689.6	29.88	758.9	49	9.4	46	calm	.....	.....	0	0	0	.....	.....	0	0	clear	J. T. Fitzgerald.
Cape Henry, Virginia	30.03	762.7	30.05	763.3	47	8.3	77	nw.	20	8.9	.....	2 k	0	nw.	.....	0.31	7.9	clear	J. E. Lanouette.
Cape May, New Jersey	30.05	763.3	30.08	764.0	43	6.1	60	ne.	10	4.5	.....	0	0	.....	.....	0.02	0.5	clear	W. Bolten.
Cedar Keys, Florida	29.96	761.0	29.98	761.5	66	18.9	63	n.	12	5.4	.....	0	0	.....	.....	inap.	inap.	clear	F. W. Mixer.
Champaign, Illinois	29.34	745.2	30.18	766.6	37.3	2.9	72	ne.	15	6.7	.....	0	0	.....	.....	0.01	0.3	clear	L. A. Welsh.
Charleston, S. Carolina	29 96	761.0	30.02	762.5	52.5	11.4	69	ne.	12	5.4	.....	0	9 s	.....	n.	0	0	cloudy	J. H. Smith.
Charlotte, N. Carolina	29.19	741.4	30.05	763.3	45.0	7.2	83	e.	5	2.2	.....	5 ck	5 s	e.	e.	0.36	9.1	cloudy	D. O. Donoghue.
Chattanooga, Tennessee	29.24	742 7	30.08	764.0	56.0	13.3	80	sw.	4	1.8	.....	.....	10 ks	.....	n.	inap.	inap.	cloudy	B. L. Goulding.
Cheyenne, Wyoming	23.86	606.0	29.86	758.4	35.4	1.9	72	nw.	6	2.7	.....	0	0	.....	.....	0	0	clear	E. McGovern.
Chicago, Illinois	29.52	749.8	30.25	768.3	41.1	5.1	57	e.	9	4.0	.....	0	0	.....	.....	0	0	clear	J. Mitchell.
Chincoteague, Virginia	30.01	762.2	30.03	762.7	44	6.7	83	ne.	16	7.2	.....	0	0	.....	.....	0.07	1.8	clear	V. P. Temple.
Cincinnati, Ohio	29.49	749.0	30.16	766.1	40	4.4	67	n.	5	2.2	.....	3 ck	0	nw.	.....	0.02	0.5	clear	R. B. Watkins.
Cleveland, Ohio	29.46	748.3	30.22	767.6	38	3.3	53	ne.	8	3.6	.....	4 c	0	nw.	.....	0	0	fair	J. B. Newlin.
Coleman City, Texas	28.10	713.7	29.92	760.0	57	13.9	68	s.	6	2.7	.....	.....	10 s	.....	.....	0	0	cloudy	L. Dorman.
Columbus, Ohio	29.27	743.4	30.14	765 5	36	2.2	61	n.	8	3.6	.....	6 c	0	sw.	.....	0.58	14.7	fair	D. Cuthbertson.
Concho, Texas	27.95	709.9	29.89	759.2	66	18.9	42	s.	4	1.8	.....	4 c	0	.....	.....	0	0	fair	W. W. McConihe.
Davenport, Iowa	29.52	749 8	30.19	766.8	40	4.4	65	e.	10	4.5	.....	2 cs	0	calm	.....	0	0	clear	R. R. Martin.
Dayton, Washington T'y	27.88	708.1	29.63	752.6	37	2.8	96	se.	5	2.2	.....	.....	10 n	.....	sw.	0.06	1.5	heavy rain	H. Clifford.
Deadwood, Dakota	25.14	638.5	29.82	757.4	40	4.4	86	calm	0	0	.....	.....	10 n	.....	.....	0.20	5.1	light rain	G. W. Scott.
Decatur, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	D. J. Carr.
Delaware Breakwater, Del.	30.05	763.3	30.07	763.8	43	6.1	83	ne.	22	9.8	.....	0	0	.....	.....	0.32	8.1	clear	A. Schneider.
Denison, Texas	29.15	740.4	29.95	760.7	53.0	11.7	86	se.	6	2.7	.....	0	0	.....	.....	0	0	clear	J. McGlone.
Denver, Colorado	24.55	623.6	29.82	757.4	51.0	10.6	44	sw.	8	3.6	.....	0	0	.....	.....	0	0	clear	F. M. Neal.
Des Moines, Iowa	29.22	742.2	30.16	766.1	43	6.1	68	se.	4	1.8	.....	.....	10 s	.....	se.	0	0	cloudy	F. W. Conrad.
Detroit, Michigan	29.53	750.0	30.26	768.6	37.6	3.1	62	n.	8	3.6	.....	5 cs	0	calm	.....	0	0	fair	C. F. R. Wappenhans.
Dodge City, Kansas	27.24	691.9	29.88	758.9	41	5.0	82	se.	14	6.3	.....	.....	10 s	.....	.....	0	0	cloudy	E. A. Thomas.
Dubuque, Iowa	29.48	748.8	30.21	767.3	37.3	2.9	61	e.	4	1.8	.....	0	hz.	.....	calm	0	0	clear	J. Harvey Smith.
Duluth, Minnesota	29.66	751.8	30.32	770.1	36	2.2	69	ne.	6	2.7	.....	2 cs	0	calm	.....	0	0	clear	N. B. Conger.
Eagle Pass, Texas	29.09	738.9	29.90	759.4	63.1	17.3	63	se.	7	3.1	.....	0	4 s	.....	.....	0	0	fair	F. Belford.
Eagle Rock, Idaho	25.08	637.0	29.80	756.9	31	— 0.6	92	sw.	6	2.7	.....	.....	10 s	.....	sw.	0	0	cloudy	J. M. Clifford.
Eastport, Maine	29.80	756.9	29.88	758.9	32.5	0.3	88	ne.	15	6.7	.....	.....	10 n	.....	ne.	0.08	2.0	light snow	J. H. Melton.
El Paso, Texas	26.20	665.5	29.94	760.5	56	13.3	20	w.	6	2.7	.....	0	0	.....	.....	0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.47	748.5	30.22	767.6	39	3.9	46	ne	3	1.3	.....	8 cs	0	.....	.....	0	0	cloudy	R. H. Paxton.
Escanaba, Michigan	29.67	753.6	30.36	771.1	35	1.7	64	ne.	6	2.7	.....	3 c	0	.....	.....	0	0	clear	C. Dill.
Florence, Arizona	28.41	721.6	29.91	759.7	47.4	8.6	53	n.	2	0.9	.....	0	0	.....	.....	0	0	clear	R. R. Herman.
Fort Apache, Arizona	25.01	635.2	29.93	760.2	35	1.7	69	ne.	4	1.8	.....	0	0	.....	.....	0	0	clear	W. O. Barnes.
Fort Assinnaboine, Montana	27.04	686.8	29.94	760.5	28	— 2.2	59	e.	4	1.8	.....	3 ck	1 s	s.	s.	0	0	fair	B. O. Lenoir.
Fort Bennett, Dakota	28.27	718.0	29.91	759.7	41	5.0	100	se.	24	10.7	.....	.....	10 n	.....	.....	0.01	0.3	light rain	T. Gibson.
Fort Benton, Montana	27.06	687.3	29.92	760.0	26	— 3.3	67	calm	0	0	.....	0	0	.....	.....	0	0	clear	S. Wheaton.
Fort Buford, Dakota	27.91	708.9	29.98	761.5	42	5.6	76	ne.	9	4.0	.....	.....	10 s	.....	calm	0	0	cloudy	A. H. Bell.
Fort Custer, Montana	26.70	678.2	29.88	758.9	40	4.4	82	w.	4	1.8	.....	0	6 s	.....	calm	0	0	fair	V. Verge.
Fort Davis, Texas	25.07	636.8	29.86	758.4	57	13.9	24	s.	2	0.9	.....	0	5 s	.....	s.	0	0	fair	J. Williams.
Fort Elliott, Texas	27.06	687.8	29.86	758.4	41	5.0	76	calm	0	0	.....	0	0	.....	.....	0	0	clear	W. J. Cundall.
Fort Gibson, Indian T'y	29.43	747.5	30.01	762.2	46.8	8.2	86	e.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. B. Campbell.
Fort Grant, Arizona	25.21	640.3	29.94	760.5	50	10.0	28	n.	10	4.5	.....	0	0	.....	.....	0	0	clear	T. J. Macgowan.
Fort Keogh, Montana	27.32	693.9	29.86	758.4	39	3.9	82	nw.	8	3.6	.....	.....	10 n	.....	nw.	0.15	3.8	light rain	W. B. Stockman.
Fort Macon, North Carolina	30.00	762.0	30.01	762.2	47	8.3	77	n.	22	9.8	.....	6 k	0	n.	.....	0.34	8.6	fair	L. Leonardy.
Fort McKavett, Texas	27.70	703.6	29.96	761.0	68	20.0	40	s.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. E. Thatcher.
Fort Missoula, Montana	26.37	669.8	29.68	753.9	28	— 2.2	88	sw.	2	0.9	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	J. H. Jones.
Fort St. Michaels, Alaska	30.10	764.5	30.13	765.3	24	— 4.4	87	se.	5	2.2	.....	0	0	.....	.....	0	0	clear	A. P. Leavitt.
Fort Shaw, Montana	26.18	665.0	29.85	758.2	27	— 2.8	77	e.	5	2.2	.....	0	0	.....	.....	0	0	clear	A. L. Mathews.
Fort Sill, Indian Territory	28.65	727.7	29.89	759.2	51.5	10.8	65	calm	0	0	.....	0	0	.....	.....	0	0	clear	T. Cleary.
Fort Stevenson, Dakota	27.99	710.9	29.89	759.2	40	4.4	100	se.	4	1.8	.....	.....	10 n	.....	se.	0.25	6.3	light rain	W. Burrows
Fort Verde, Arizona	.....	.....	.....	.....	48	8.9	46	s.	.....	.....	2	0	0	.....	.....	0	0	clear	D. Brooks.
Fort Washakie, Wyoming	24.31	617.5	.....	.....	26.2	— 3.2	67	se.	4	1.8	.....	0	0	.....	.....	inap	inap.	clear	T. M. Ambler.
Fredericksburg, Texas	28.19	716.0	29.91	759.7	61	16.1	62	calm	0	0	.....	5 cs	0	.....	.....	0	0	fair	H. S. Miles.
Galveston, Texas	29.94	760.5	29.98	761.5	69	20.6	90	s.	6	2.7	.....	0	hz.	.....	.....	0	0	clear	E. O'C. MacInerney.
Grand Haven, Michigan	29.61	752.1	30.30	769.6	37.0	2.8	51	ne.	2	0.9	.....	0	0	.....	.....	0	0	clear	W. A. Reid.
Hatteras, North Carolina	29.96	761.0	29.98	761.5	48	8.9	63	ne.	32	14.3	.....	hz.	0	.....	.....	0	0	clear	R. M. Crawford.
Helena, Montana	25.58	649.7	29.84	757.9	28	— 2.2	67	w.	3	1.3	.....	0	4 s	.....	.....	0.42	10.7	clear	N. C. Smith.
Henrietta, Texas	28.93	734.8	29.96	761.0	60.0	15.6	70	se.	7	3.1	.....	5 cs	0	.....	.....	0	0	fair	J. W. Byram.
Huron, Dakota	28 59	726.2	30.04	763 0	40.2	4.6	86	se.	20	8.9	.....	.....	10 s	.....	.....	0	0	fair	S. W. Glenn.
Indianapolis, Indiana	29.35	745.5	30.17	766.3	39	3.9	73	ne.	4	1.8	.....	0	hz.	.....	calm	0	0	cloudy	O. Schutze
Indianola, Texas	29.95	760.7	29.98	761.5	67.8	19.9	73	se.	6	2.7	.....	0	hz.	.....	.....	0	0	clear	I. A. Reed.
Jacksboro, Texas	28.74	730.0	29.92	760.0	60	15.6	70	se.	3	1.3	.....	6 c	0	w.	.....	0	0	clear	J. P. Sherry.
Jacksonville, Florida	29.95	760.7	29.99	761.7	65	18.3	63	n.	6	2.7	.....	0	0	.....	.....	0	0	fair	J. W. Smith.
Keokuk, Iowa	29.46	748 3	30.13	765.3	40.5	4.7	76	e.	4	1.8	.....	0	0	.....	.....	0.25	6.3	clear	F. Z. Gosewisch
Key West, Florida	29.97	761.2	29.99	761.7	79.5	26.4	78	w.	10	4.5	.....	2 cs	3 k	nw.	w.	0.02	0.5	clear	L. M. Melbourne.
Kittyhawk, North Carolina	30.00	762.0	30.02	762.5	46	7.8	60	ne.	24	10.7	.....	1 c	0	.....	.....	0	0	fair	E. A. Beals.
Knoxville, Tennessee	29.04	737.6	30.08	764.0	49.2	9.6	79	n.	4	1 8	.....	0	8 s	.....	n.	0.11	2,8	clear	J. A. Cody.
La Crosse, Wisconsin	29.42	747 3	30.22	767.6	45	7.2	45	se.	4	1.8	.....	0	0	.....	.....	0.20	5.1	cloudy	S. C. Emery.
La Mesilla, New Mexico	26.05	661.7	29.93	760 2	45.0	7.2	41	calm	0	0	.....	0	0	.....	.....	0	0	clear	N. D. Lane.
Leavenworth, Kansas	29.18	741.2	30.09	764.3	45	7.2	83	se.	4	1.8	.....	0	1 s	.....	.....	0	0	clear	A. W. Browne.
Lewiston, Idaho	28.81	731.8	29.66	753.4	40	4.4	62	e.	5	2.2	.....	.....	10 s	.....	se.	0	0	cloudy	W. Blake.
Little Rock, Arkansas	29.77	756.1	30.09	764.3	49	9.4	77	ne.	2	0.9	.....	.....	10 s	.....	.....	0	0	cloudy	W. U. Simmons.
Los Angeles, California	29.67	753.6	30.07	763.8	45.2	7.3	83	calm	0	0	.....	0	0	.....	.....	0	0	clear	E. F. Kubei.
Louisville, Kentucky	29.54	750 3	30.11	764.8	43	6.1	45	ne.	13	5.8	.....	.....	9 s	.....	sw.	inap.	inap.	cloudy	H. C. Smyth.
Lynchburg, Virginia	29.41	747.0	30.12	765.0	43.5	6.4	72	calm	0	0	.....	9 k	sk.	.....	.....	0	0	cloudy	W. R. Bushby.
Madison, Wisconsin	29.23	742.4	30.27	768.8	36	2.2	69	e.	6	2.7	.....	0	fg.	.....	.....	0.30	7.6	clear	C. A. Shaw.
Marquette, Michigan	29.64	752.8	30.40	772.1	38	3.3	62	e.	4	1.8	.....	5 c	0	ne.	.....	0	0	clear	J. Gilligan.
Mason, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	P. M. Wilson.
Memphis, Tennessee	29.76	755.9	30.10	764.5	52	11.1	80	nw.	2	0.9	.....	0	0	.....	.....	0	0	clear	D. T. Flannery.
Milwaukee, Wisconsin	29.52	749 8	30.29	769.4	38	3.3	73	ne.	7	3.1	.....	0	0	.....	.....	0	0	clear	W. Line.
Mobile, Alabama	30.02	762.5	30.06	763.5	58	14.4	77	ne.	4	1.8	.....	3 c	0	nw.	.....	0	0	clear	J. D. Paxton.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Montgomery, Alabama	29.81	757.2	30.04	763.0	55	12.8	80	n.	3	1.3		0	0			0	0	clear	J. B. McLaughlin.
Moorhead, Minnesota	29.08	738.6	30.11	764.8	36.2	2.3	79	se.	18	8.0		5 cs	0	se.		0	0	fair	H. Bessant.
Morgantown, W. Virginia	29.13	739.9	30.17	766.3	38.0	3.3	53	n.	1	0.4		hz	0			0.40	10.2	clear	G. O. Lewis.
Mt. Washington, N. H.	23.45	595.6	29.86	758.4	6.0	—14.4	78	nw.	39	17.4			fg.		nw.	0	0	light fog	J. G. Linsley.
Nashville, Tennessee	29.54	750.3	30.08	764.0	51.5	10.8	76	e.	4	1.8		0	9 ks		nw.	0.03	0.8	cloudy	L. A. Jesunofsky.
New Haven, Connecticut	29.93	760.2	30.05	763.3	35	1.7	64	n.	2	0.9		0	hz.			0	0	clear	J. H. Sherman.
New London, Connecticut	29.99	761.7	30.04	763.0	38	3.3	61	n.	9	4.0		0	0			0	0	clear	J. G. Lynch.
New Orleans, Louisiana	29.95	760.7	30.01	762.2	64.0	17.8	90	e.	6	2.7		2 c	sk.			0	0	clear	S. Dunne.
Newport, Rhode Island	29.96	761.0	30.01	762.2	36.0	2.2	56	nw.	14	6.3		0	0			0	0	clear	W. McGillivray.
New River, N. Carolina					44	6.7	83	n.			4	2 ck	3 ks	n.		0.52	13.2	fair	C. C. Corbin.
New Shoreham, Rhode I'd.	29.98	761.5	30.01	762.2	37.0	2.8	51	n.	24	10.7		0	0			0	0	clear	W. Davis.
New York, New York	29.90	759.4	30.08	764.0	41	5.0	57	n.	6	2.7		0	0			0	0	clear	E. B. Garriott.
Norfolk, Virginia	30.02	762.5	30.05	763.3	48	8.9	77	n.	8	3.6		0	0			0.16	4.1	clear	J. T. Elker.
North Platte, Nebraska	26.93	684.0	29.89	759.2	44.6	7.0	81	se.	28	12.5			10 s			0	0	cloudy	E. F. Brady.
Olympia, Washington T'y	29.48	748.8	29.52	749.8	41.0	5.0	65	s.	9	4.0		0	4 s		calm	0.01	0.3	fair	J. Dascomb.
Omaha, Nebraska	28.89	733.8	30.10	764.5	43.0	6.1	93	se.	10	4.5			10s;fg			inap.	inap.	cloudy	A. Pollak.
Ooglanmie, Pt. Barrow, Alas.	29.04	760.5	29.96	761.0	13.2	—10.4	98	sw.	21	9.4			10 n			0.03	0.8	light snow	P. H. Ray.
Oswego, New York	29.83	757.7	30.17	766.3	33.3	0.7	62	ne.	16	7.2		0	0			0	0	clear	S. W. Beall.
Palestine, Texas	29.45	748.0	30.01	762.2	58.0	14.4	84	nw.	4	1.8		6 cs	0	w.		0	0	fair	L. M. Pindell.
Pensacola, Florida	30.00	762.0	30.04	763.0	60.7	15.9	72	n.	3	1.3		3 c	0			0	0	clear	M. McGauran.
Philadelphia, Pa	29.99	761.7	30.09	764.3	42	5.6	65	n	12	5.4		0	0			0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	17.56	446.0	29.84	757.9	12	—11.1	100	sw.	46	20.6		0	hz.			0	0	clear	L. M. Dey.
Pioche, Nevada	23.81	604.8	29.80	756.9	37	2.8	42	s.	8	3.6		0	0			inap.	inap.	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.34	745.2	30.17	766.3	39.3	4.1	46	ne.	4	1.8		5 c	0	nw.		0	0	fair	J. H. Bryce.
Port Eads, Louisiana	30.00	762.0	30.01	762.2	67.6	19.8	78	n.	10	4.5		0	0			0	0	clear	H. G. Christian.
Port Huron, Michigan	29.55	750.6	30.25	768.3	36.1	2.3	61	e.	10	4.5		4 c	0	n.		0	0	fair	W. O. Bailey.
Portland, Maine	29.90	759.4	29.95	760.7	37.0	2.8	51	nw.	15	6.7		2 k	0	n.		0	0	clear	D. C. Murphy.
Portland, Oregon	29.53	750.0	29.60	751.8	38.2	3.4	89	se.	12	5.4			10 s		se.	0.17	4.3	cloudy	M. L. Hearne.
Portsmouth, N. Carolina					49	9.4	63	ne.	34	15.2		3 c	0	n.		0	0	clear	F. P. Chaffee.
Prescott, Arizona	24.66	626.4	29.88	758.9	47	8.3	48	s.	4	1.8		0	0			0	0	clear	J. McN. Wright.
Provincetown, Mass.	29.95	760.7	29.98	761.5	37	2.8	72	nw.	10	4.5		3 k	4 s	nw.		0	0	fair	P. T. Jenkins.
Punta Rassa, Florida	29.94	760.5	29.95	760.7	73.5	23.1	66	ne.	7	3.1			10 ks		w.	0.12	3.0	cloudy	W. J. Evans.
Red Bluff, California	29.46	748.3	29.83	757.7	44.8	7.1	89	se.	18	8.0		0	5 s		s.	inap.	inap.	fair	J. M. Frantz.
Rio Grande City, Texas	29.63	752.6	29.87	758.7	63	17.2	93	se.	5	2.2		0	0			0	0	clear	W. H. Taylor.
Rochester, New York	29.51	749.5	30.20	767.1	33	0.6	80	ne.	14	6.3		0	0			0	0	clear	A. T. Sherwood.
Roseburg, Oregon	29.16	740.7	29.72	754.9	36	2.2	89	s.	12	5.4		0	8 n		s.	0.76	19.3	light rain	J. J. Nanry.
Sacramento, California	29.92	760.0	30.00	762.0	47.0	8.3	77	s.	13	5.8			9 s		sw.	0	0	cloudy	J. A. Barwick.
St. Louis, Missouri	29.54	750.3	30.14	765.5	47.0	8.3	93	ne.	7	3.1			10 s			inap.	inap.	cloudy	J. H. Webber.
St. Paul, Minnesota	29.32	744.7	30.21	767.3	39.0	3.9	70	e.	7	3.1		0	0			0	0	clear	P. F. Lyons.
St. Vincent, Minnesota	29.22	742.2	30.13	765.3	38	3.3	73	se.	16	7.2		2 cs	4 s	calm	calm	0	0	fair	G. Kingsbury.
Salt Lake City, Utah	25.42	645.7	29.79	756.7	32	0.0	43	w.	4	1.8		0	0			0.09	2.3	clear	J. Craig.
San Antonio, Texas	29.24	742.7	29.94	760.5	54.6	12.6	80	calm	0	0		3 cs;k	0	calm		0	0	clear	E. Lane.
San Diego, California	29.99	761.7	30.05	763.3	52.0	11.1	72	sw.	1	0.4		1 k	5 s	w.		0	0	fair	A. C. Dobbins.
Sandusky, Ohio	29.51	749.5	30.21	767.3	41.7	5.4	80	ne.	16	7.2		5 c	0	e.		0	0	fair	M. H. Perry.
Sandy Hook, New Jersey	30.03	762.7	30.07	763.8	40.0	4.4	87	ne.	9	4.0		0	0			0	0	clear	B. A. Blundon.
San Francisco, California	29.95	760.7	30.02	762.5	51	10.6	80	s.	13	5.8			10 n		sw.	inap.	inap.	light rain	N. Gorom.
Santa Fé, New Mexico	23.18	588.8	29.94	760.5	42	5.6	35	n.	11	4.9		0	0			0	0	clear	H. U. Jones.
Savannah, Georgia	29.92	760.0	30.02	762.5	57	13.9	72	ne.	10	4.5			10 ks		ne.	0	0	cloudy	H. W. Ford.
Shreveport, Louisiana	29.81	757.2	30.05	763.3	56	13.3	86	w.	4	1.8		5 c	0			0	0	fair	E. N. Meekins.
Silver City, New Mexico	24.21	614.9	29.89	759.2	35	1.7	37	w.	1	0.4		0	0			0	0	clear	J. B. Wallace.
Sitka, Alaska	29.67	753.6	29.74	755.4	34	1.1	71	ne.	4	1.8		3 k	0	ne.		0	0	clear	J. J. McLean.
Smithville, North Carolina	29.99	761.7	30.03	762.7	46	7.8	76	n.	10	4.5		4 k	0	n.		0.30	7.6	fair	O. Parker.
Spokane Falls, Wash. Ter.	27.62	701.5	29.68	753.9	35	1.7	66	e.	4	1.8			10 s			0.02	0.5	cloudy	D. Moore.
Springfield, Illinois	29.47	748.5	30.17	766.3	41	5.0	65	e.	6	2.7		0	0			0	0	clear	T. B. Jennings.
Springfield, Massachusetts	29.92	760.0	30.05	763.3	39.0	3.9	54	nw.	1	0.4		0	0			0	0	clear	T. S. Outram.
Springfield, Mo	28.63	727.2	30.15	765.8	45	7.2	76	se.	5	2.2			10 s			0.02	0.5	cloudy	J. B. Marbury.
Stockton, Texas	26.89	683.0	29.92	760.0	47.8	8.8	86	s.	6	2.7		0	4 s		s.	0	0	fair	J. O'Dowd.
Thatcher's Island, Mass.	29.91	759.7	29.96	761.0	34.0	1.1	71	nw.	19	8.5		0	3 s			0	0	clear	G. Liebmann.
Toledo, Ohio	29.50	749.3	30.21	767.3	36	2.2	69	n.	8	3.6		3 c	0	w.		0	0	clear	A. Buell.
Tucson, Arizona	27.50	698.5	29.89	759.2	52	11.1	38	se.	4	1.8		0	0			0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.33	745.0	29.70	754.4	42.5	5.8	70	s.	9	4.0			10s		sw.	0	0	cloudy	J. Daly.
Uvalde, Texas	28.95	735.3	29.92	760.0	58	14.4	70	e.	2	0.9			10 s		s.	0	0	cloudy	E. C. Imlay.
Vicksburg, Mississippi	29.81	757.2	30.07	763.8	54	12.2	67	calm	0	0		2 c	0			0	0	clear	T. J. Kenan.
Visalia, California	29.65	753.1	30.02	762.5	42.0	5.6	72	nw.	4	1.8		0	0			0	0	clear	J. T. Cochran.
Washington, D. C.	30.01	762.2	30.13	765.3	36	2.2	79	nw.	7	3.1		0	0			0.70	17.8	clear	B. M. Purssell.
West Las Animas, Colorado	25.81	655.6	29.77	756.1	55	12.8	21	w.	20	8.9		0	0			0	0	clear	J. Grover.
Wickenburg, Arizona					47.5	8.6	67	calm			0	0	0			0	0	clear	H. A. Kremp.
Williamsport, Pa	29.52	749.8	30.13	765.3	35.5	1.9	57	w.	6	2.7		0	hz.			0	0	clear	B. F. Hough.
Wilmington, N. Carolina	29.98	761.5	30.04	763.0	48	8.9	77	n.	10	4.5		5 k	0	n.		0.34	8.6	fair	E. W. McGann.
Winnemucca, Nevada	25.35	643.9	29.75	755.6	37	2.8	32	sw.	11	4.9		3 ck	0	sw.		0	0	clear	J. R. Williams.
Yankton, Dakota	28.71	729.2	30.05	763.3	43	6.1	83	se.	14	6.3			10 s			0	0	cloudy	J. H. Atfield.
Yuma, Arizona	29.74	755.4	29.89	759.2	56.3	13.5	43	nw.	5	2.2		0	1 s			0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.03	559.6			55.0	12.8	77	sw.	1.8	0.8		8 ck	2 s	w.	w.	0	0	cloudy	Joaquin Gomez.
Bridgetown, Barbados, W. I.	30.04	763.0	30.05	763.3	81	27.2	82	e.				5 k	5 ks	e.	e.	0	0	fair	J. A. Racker.
Buenaventura, U. S. C.																			J. I. Plume.
Guadeloupe, W. I.	29.94	760.5	29.96	761.0	79	26.1	83	e.				0	3 ks			0	0	clear	B. Bigar.
Havana, Cuba, W. I.	29.97	761.2	30.02	762.5	81	27.2	79	sw.	1.2	0.5		0	0			0	0	clear	A. Van Caneghem.
Kingston, Jamaica, W. I.	30.01	762.2	30.02	762.5	76.0	24.4	64	calm	0	0		0	0			0	0		Robert Johnston.
Navassa, W. I.																			F. M. Everett.
Paramaribo, S. A.	30.05	763.3	30.05	763.3	78	25.6	91	se.			2		8 ks	e.	e.	0.450	11.4	cloudy	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.45	748.0	29.91	759.7	81	27.2	85	calm			0		10 ks		calm	0.01	0.3	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.							89	ne.			1	0	0			0	0	clear	Earl Flint.
Santiago de Cuba, W. I.	29.97	761.2	29.99	761.7	78	25.6	82	calm	0	0		0	6 s		sw.	0	0	cloudy	Robert Mason.
York Factory, B. A.	30.05	763.3	30.11	764.8	23.0	— 5.0	93	ne.	14	6.3		4 k	3 s	ne.	ne.	0.01	0.3	cloudy	W. Wood.

STATIONS AND VESSELS.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
BRITISH NAVAL.																		
H. M. S. Alert, Providence Island, Madagascar	29.91	759.7	83.8	28.8	80	se.			3–4		5							d. clouds.
H. M. S. Alexandra, Malta, Mediterranean	30.10	764.5	67	19.4	79	ene.			1		9							d. clouds.
H. M. S. Amethyst, N. 48° 38′, W. 5° 54′	29.87	758.7	53	11.7	93	wsw.			6		2	wnw.				5	wnw.	d. clouds.
H. M. S. Bacchante, Beirut Bay, Palestine	29.81	757.2	67	19.4	79	sw.			3		4	sw.				2	sw.	d. clouds.
H. M. S. S. S. Champion, S. 25° 15′ W. 74° 50′			65	18.3	73	ese.			5		10	calm				5	nw.	d. clouds.
H. M. S. Comus, N. 7° 53′, E. 131° 45′	29.83	757.7	82	27.8	100	ene.			3–4		3					4	ne.	d. clouds.
H. M. S. Dido, N. 18° 20′, W. 65° 00′	30.10	764.5	79	26.1		se.			3		3	e.						d. clouds.
H. M. S. Dryad, N. 24° 29′, E. 54° 21′	29.63	752.6				nne.			1		0					1	nne.	blue sky.
H. M. S. Dwarf, S. 33° 17′, W. 58° 22′	30.16	766.1	54	12.2	86	ne.			2		5					2	n.	d. clouds.
H. M. S. Espiegle, S. 38° 26′ E. 150° 29′	29.79	756.7	66	18.9	84	nw.			4		8					4	nw.	d. clouds.
H. M. S. Fawn, N. 12° 40′, E. 43° 25′	29.73	755.1	86.5	30.3	67	sse.			2		1						s.	blue sky.
H. M. S. Gannet, S. 29° 56′, W. 71° 20′	30.12	765.0	52.5	11.4	82	e.			1		0							misty.
H. M. S. Garnet, Colonia, Uruguay	30.22	767.6	56	13.3	80	ne.			3		0							blue sky.
H. M. S. Inconstant, Simon's Bay, Cape Colony	30.05	763.3	64	17.8	100	wnw.			4–5		7	w.				1	w.	raining.
H. M. S. Iron Duke, N. 18° 25′, E. 117° 21′	29.84	757.9	79	26.1	95	ne.			2		5	ne.				1	ne.	d. clouds.
H. M. S. Lark, S. 9° 05′, E. 160° 20′	29.89	759.2	82.3	27.9		calm			0		2							d. clouds.
H. M. S. Magpie, N. 35° 25′, E. 139° 43′	30.04	763.0	56.8	13.8	86	nne.			1		7							d. clouds.
H. M. S. Malabar, N. 35° 54′, E. 14° 31′	30.06	763.5	65	18.3	78	nnw.			1		3	wnw.				1	wnw.	d. clouds.
H. M. S. Nelson, Sydney, N. S. Wales	29.88	758.9	69	20.6	84	ne.			3		3	s.						d. clouds.
H. M. S. Northampton, Bermuda, W. I.	29.85	758.2	70	21.1	100	sse.			4		10	sse.						misty.
H. M. S. Orontes, N. 32° 20′, W. 32° 22′	30.51	774.9	67.5	19.7	86	e.			2		9					2	ene.	d. clouds.
H. M. S. Pegasus, N. 1° 17′, E. 103° 52′	29.87	758.7	80	26.7	95	nw.			2		10							showery.
H. M. S. Rambler, Little Fish Bay, Benguela	29.91	759.7	71	21.7	100	nw.			1		4							foggy.
H. M. S. Rocket, Esquimalt, Vancouver Island, B. C.	29.48	748.8	41	5.0		sse.			4		6							squally.
H. M. S. Serapis, N. 15° 28′ E. 58° 20′	29.88	758.9	84	28.9	71	wsw.			3		0							blue sky.
H. M. S. Superb, N. 38° 03′, E. 17° 55*	30.10	764.5	64	17.8	89	wsw.			3		2	wsw.						misty.
H. M. S. Thalia, S. 16° 17′, W. 4° 27′	30.08	764.0	78	25.6	84	ene.			3		2					1	ese.	d. clouds.
H. M. S. Triumph, Coquimbo, Chili	30.10	764.5	54	12.2	73	calm			0		2	calm						d. clouds.
H. M. S. Tyne, Aden Roads, Arabia	29.80	756.9	84.5	29.2	?	e.			3–4		1					1	ne.	blue sky.
PORTUGUESE NAVAL.																		
Rio Lima, Bulama, Senegambia	30.02	762.4	84.9	29.4	86	sw.			4		0					2		blue sky.
Tamega, Aberdeen, China	29.91	759.7	75.2	24.0	79	ene.			2		10			¼h'r	¼ h'r	1	ene.	overcast.
SWEDISH NAVAL.																		
Balder, N. 40° 14′ W. 51° 36′	29.62	752.3	60.6	15.9	98	ssw.			8		10							raining.
UNITED STATES NAVAL.																		
Navy Yard, Pensacola, Fla	29.99	761.7	66	18.9	79	ne.	5	2.2			5		ne.	0	0			fair.
Naval Hospital, Portsmouth, N. H.	30.10	764.5	36	2.2	55	n.	8	3.6			0			0	0			clear.
Naval Hospital, Yokohama, Japan	29.88	758.9	54.5	12.5	84	calm			0		8		ne.	0.10	2.5			cloudy.
Adams, Acapulco, Mexico	29.71	754.6	76	24.4	95	calm			0		0			0	0	sm'h		clear.
Alaska, Panama, Panama	29.84	757.9	75	23.9	90	nnw.			1		2		n.	0	0	sm'h		fair.
Alert, Kobe, Japan*	29.89	759.2	63	17.2	62	calm			0		0			0	0	sm'h		hazy.
Alliance, Key West, Florida	29.99	761.7	79	26.1	91	w.			3		5			0	0	sm'h		fair.
Ashuelot, Kobe, Japan	30.00	762.0	60	15.6	65	ssw.			1		2		n.					fair.
Brooklyn, Montevideo, Uruguay	30.24	768.1	57	13.9	87	nne.	6	2.7			2		calm	0	0	sm'h		fair.
Colorado, New York, N. Y.	30.06	763.5	43	6.1	59	n.	7	3.1			0			0	0			clear.
Enterprise, Key West, Florida*	29.96	761.0	81	27.2	91	w.			3		5		w.			sm'h		fair.
Essex, S. 15° 06′, W. 29° 45′	30.03	762.7	80	26.7	82	ene.			1		2					long	e.	clear.
Franklin, Norfolk, Va	30.09	764.3	47	8.3	77	nnw.	8	3.6			2		nnw.	0.16	4.1			fair.
Galena, Leghorn, Italy	29.98	761.5	62	16.7	77	wsw.			5		5		sw.			mod.	sw.	fair.
Independence, Mare Island, Cal	29.88	758.9	50	10.0	79	s.			6		10		s.	0	0			threatening.
Irquois, Mare Island, Cal	29.95	760.7	50	10.0	79	sw.			6		10		sw.					drizzling.
Kearsage, Hampton Roads, Va	30.05	763.3	43	6.1	?	n.			3		0					sm'h		clear.
Lackawanna, Cosma, Peru*†	29.98	761.5	63	17.2	94	calm			0		8		n.					cloudy.
Lancaster, Leghorn, Italy*	29.93	760.2	60	15.6	82	ssw.			4		5		wsw.	0	0			fair.
Marion, S. 22° 22′, W. 8° 35′	30.18	766.6	74	23.3	76	ene.			1		10		calm	0	0	long	wsw.	cloudy.
Michigan, Erie, Pa	30.14	765.5	37	2.8	100	e.			2		0							clear.
Minnesota, Newport, R. I.	30.04	763.0	37	2.8	53	n.	8	3.6			2							fair.
Monocacy, Kobe Japan	30.04	763.0	61	16.1	77	s.			1		0							clear.
New Hampshire, Newport, R. I.	29.91	759.7	39	3.9	64	n.			4		0					sm'h		clear.
Nipsic, Villafranca, France	29.88	758.9	64	17.8	53	sw.			4		2					long	sw.	clear.
Onward. Callao, Peru†	30.08	764.0	62	16.7	100	sse.			1		10		n.			long	w.	misty.
Palos, Kobe, Japan	30.04	763.0	60	15.6	60	calm			0		2		nw.					fair.
Passaic, Washington, D. C.	30.17	766.3	39	3.9	73	n.			1		2							clear.
Pensacola, Callao, Peru	29.92	760.0	62	16.7	100	sse.					10							clear.
Powhatan, Kew West, Florida	29.99	761.7	79	26.1	91	ne.	3	1.3			5			0	0	sm'h		foggy.
Portsmouth, N. 39 00′, W. 50° 35′	29.81	757.2	66	18.9	84	wsw.			2		8							fair.
Quinnebaug, Leghorn, Italy	29.97	761.2	61	16.1	66	wsw.			6		8		sw.			r'gh	sw.	cloudy.
Ranger, Mazatlan, Mexico*	29.84	757.9	64	17.8	83	calm			5		8		wsw.			sm'h		cloudy.
Richmond, Kobe, Japan*	29.96	761.0	66	18.9	54	calm			0		0			0	0	sm'h		hazy.
Saratoga, N. 40° 49′ W. 49° 37′	29.70	754.4	61	16.1	94	sw.			0		0			0	0			fair.
Shenandoah, N. 28° 03′, W. 79° 35′*	29.99	761.7	75	23.9	72	nnw.			6		5		sw.	light	light	r'gh	sw.	fair.
St. Louis, League Island, Pa.	30.21	767.3	40	4.4	56	n.	12	5.4	4–5		5		nnw.			mod.	nnw.	cloudy.
Swatara, N. 33° 49′, E. 128° 49′*	29.94	760.5	58	14.4	82	ne.					0			0	0			clear.
Tennessee, Fortress Monroe, Va.	30.06	763.5	44	6.7	?	nnw.			4		8		nw.			mod.	ne.	fair.
Vandalia, Hampton Roads, Va†	30.33	770.4	43	6.1	92	nnw.	14	6.3			0			0.13	3.3			hazy.
Wabash, Boston, Mass.	30.00	762.0	35	1.7	54	nnw.			3		0							clear.
Wachusetts, Sitka, Alaska	29.66	753.4	37	2.8	81	nw.	6	2.7			2		nw.	0	0			clear.
Wyoming, Port Royal, S. C.	30.05	763.3	55	12.8	87	nne.			1		2		calm			sm'h		fair.
Yantic, Fort Monroe, Va*†	30.33	770.4	45	7.2	92	nnw.	20	8.9			10		n.	0	0			overcast.
									4		2							clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.			Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Amount and kind.		Direction.						
								Force.	Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Circassian, N. 42° 50′ W. 53° 22′	29.96	761.0	42	5.6	65	w.	.....	.....	3	.....	8	.....	ne.	0	0	3	wsw.	d. clouds.
S. S. Nova Scotian, N. 55° 31′, W. 7° 51′	29.38	746.2	49	9.4	.....	nw.	.....	.....	6	.....	10	.....	nw.	.....	.....	long	nw.	squally.
S. S. Polynesian, N. 51° 54′ W. 28° 39′*	29.41	747.0	50	10.0	.....	wsw.	.....	.....	7	.....	7?	.....	w.	8 h'r	8 h'r	mod.	sw.	clear?
S. S. Scandinavian, N. 50° 04′, W. 27° 12′*	29.65	753.1	53	11.7	.....	wsw.	.....	.....	6	.....	3	.....	wsw.	5 h'r	5 h'r	mod.	var.	d. clouds.
S. S. Waldensian, N. 54° 16′, W. 17° 17′*	29.83	757.7	40	4.4	.....	ne.	.....	.....	3	.....	8	.....	ne.	0	0	long	ne.	fine.
AMERICAN STEAMSHIP COMPANY.																		
S. S. British Crown, N. 49° 40′, W. 20° 15′†	30.12	765.0	54	12.2	.....	ssw.	.....	.....	3	.....	10	.....	.....	0	0	sm'h	.....	hazy.
S. S. Illinois, Liverpool, Eng.	29.35	745.5	56	13.3	93	w.	.....	.....	6	.....	2	.....	wnw.	.....	.....	.....	.....	fine.
S. S. Indiana, N. 38° 54′, W. 66° 09′†	29.92	760.0	47	8.3	69	n.	.....	.....	5	.....	8	.....	ne.	snow	snow	mod.	n.	cloudy.
S. S. Ohio, Liverpool, Eng.†	29.45	748.0	53	11.7	93	wsw.	.....	.....	4	.....	3	.....	w.	.....	.....	.....	.....	clear.
S. S. Pennsylvania, N. 40° 59′, W. 47° 16′†	29.86	758.4	63	17.2	88	wsw.	.....	.....	6	.....	.....	.....	wsw.	.....	.....	r'gh	wsw.	overcast.
ANCHOR LINE.																		
S. S. Assyria, N. 53° 32′, W. 18° 51′*†	29.95	760.7	49	9.4	.....	e.	.....	.....	1	.....	10	.....	se.	0	0	mod.	ne.	overcast.
S. S. Bolivia, N. 40° 25′, W. 62° 40′†	29.68	753.9	41	5.0	.....	ene.	.....	.....	2	.....	2	.....	ene.	0	0	light	e.	
S. S. Devonia, N. 43° 00′ W. 54° 50′†	29.61	752.1	41	5.0	.....	w.	.....	.....	2	.....	2	.....	w.	.....	.....	mod.	sw.	clear.
S. S. Ethiopia, N. 53° 58′, W. 18° 39′	29.78	756.4	49	9.4	85	wsw.	.....	.....	2	.....	9	.....	w.	2 h'r	2 h'r	mod.	nw.	cloudy.
S. S. Galatia, N. 48° 09′, W. 22° 46′†	30.07	763.8	.....	.....	.....	sw.	.....	.....	6	.....	10	.....	wsw.	15 h'r	15 h'r	r'gh	w.	rainy.
S. S. India, N. 12° 44, E. 45° 00′*	29.77	756.1	90	32.2	88	e.	.....	.....	1	.....	0	.....	.....	.....	.....	.....	.....	clear.
ATLAS LINE.																		
S. S. Atlas, N. 18° 40′, W. 74° 06′†	30.00	762.0	80	26.7	74	se.	.....	.....	1–2	.....	10	.....	ne.	3 h'r	3 h'r	sm'h	.....	hazy.
S. S. Alvo, Cartegena, U. S. C.	29.80	756.9	104	40.0	.....	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	.....	fair.
S. S. Arden, N. 36° 10′, W. 74° 30′	.....	.....	.....	.....	.....	nne.	.....	.....	3	.....	4	.....	n.	.....	.....	h'vy	nne.	raining.
S. S. Claribel, N. 18° 33′, W. 72° 20′*†	30.14	765.5	80	26.7	78	e.	.....	.....	2	.....	1	.....	calm	0	0	.....	.....	fine.
BRITISH METEOROLOGICAL OFFICE.																		
S. S. Arran, S. 21° 13′, W. 26° 53′	30.08	764.0	77.5	25.3	82	s.	.....	.....	4	.....	10	.....	.....	.....	.....	.....	.....	overcast.
Baroda, N. 16° 29′ E. 82° 23′	29.67	753.6	86.6	30.3	72	sw.	.....	.....	3	.....	0	.....	.....	.....	.....	.....	.....	blue sky.
British Merchant, S. 24° 13′ E. 58° 44′	30.10	764.5	76.5	24.7	82	ese.	.....	.....	4	.....	5	.....	.....	.....	.....	.....	.....	d. clouds.
Glencairn, S. 7° 00′, E. 92° 10′	29.76	755.9	81	27.2	96	sw.	.....	.....	4	.....	6	.....	.....	.....	.....	.....	.....	misty.
Julia H., N. 33° 48′, W. 73° 50′	29.68	753.9	64.4	18.0	92	n.	.....	.....	6	.....	10	.....	.....	.....	.....	.....	.....	overcast.
CROMWELL LINE.																		
S. S. Hudson, N. 33° 45′, W. 77° 30′†	29.98	761.5	54	12.2	.....	n.	.....	.....	6	.....	9	.....	n.	12 h'r	12 h'r	mod.	nne.	cloudy.
CUNARD LINE.																		
S. S. Gallia, N. 51° 01′, W. 14° 57′	29.83	757.7	52	11.1	66	w.	.....	.....	5	.....	10	.....	w.	0	0	r'gh	nw.	squally.
S. S. Scythia, N. 45° 22′, W. 40° 02′	29.79	756.7	57	13.9	94	sw.	.....	.....	4	.....	10	.....	wsw.	8 h'r	8 h'r	mod.	ssw.	overcast.
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. Canada, N. 49° 02′, W. 15° 20′	29.96	760.9	46.4	8.0	.....	w.	.....	.....	3	.....	9	.....	w.	2 h'r	2 h'r	.....	nw.	covered.
S. S. France, N. 42° 07′, W. 53° 47′†	29.83	757.7	42.8	6.0	.....	nw.	.....	.....	3	.....	.....	.....	wnw.	0	0	r'gh	wnw.	covered.
S. S. St. Germain, N. 42° 29′ W. 46° 08′	.....	.....	59.0	15.0	.....	w.	.....	.....	6	.....	.....	.....	w.	rain	rain	h'vy	w.	hazy.
GUION LINE.																		
S. S. Arizona, N. 50° 47′, W. 17° 09′	29.89	759.2	47	8.3	.....	sw.	.....	.....	5	.....	10	.....	wsw.	2 h'r	2 h'r	mod.	wnw.	drizzling.
S. S. Wisconsin, N. 46° 00′ W. 37° 40′*†	29.86	758.4	50	10.0	?	calm	.....	.....	0	.....	1	.....	w.	0	0	mod.	w.	fine.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Bohemia, N. 52° 14′, E. 3° 17′*†	29.46	748.3	.....	.....	.....	ssw.	.....	.....	6	.....	4	.....	ssw.	2 h'r	2 h'r	cross	ssw.	squally.
S. S. Cimbria, N. 41° 32′, W. 50° 02′	29.71	754.6	39.2	4.0	.....	ese.	.....	.....	2	.....	10	.....	ese.	14 h'r	14 h'r	mod.	sw.	raining.
S. S. Lessing, Off Plymouth, England	29.69	754.0	60	15.6	.....	wnw.	.....	.....	4	.....	2	.....	wnw.	0	0	.....	.....	clear.
S. S. Silesia, N. 41° 38′, W. 54° 11′†	29.76	755.9	42.1	5.6	.....	nne.	.....	.....	2	.....	10	.....	.....	½ h'r	½ h'r	2–4	nne.	overcast.
S. S. Wieland, N. 49° 12′, W. 12° 16′	30.01	762.2	55	12.8	.....	wnw.	.....	.....	5	.....	5	.....	wnw.	0	0	5	wnw.	fair.
INMAN LINE.																		
S. S. City of New York, N. 40° 32′, W. 62° 28′	29.86	758.4	.....	.....	.....	ne.	.....	.....	3	.....	9	.....	ene.	0	0	sm'h	ne.	cloudy.
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, S. 9° —′, W. 33° —′*†	30.21	767.3	84	28.9	.....	ese.	.....	.....	2	.....	2	.....	ese.	0	0	long	sse.	clear
S. S. Humboldt, S. 16° 19′, W. 38° 14′*	30.08	764.0	76.0	24.4	95	se.	.....	.....	8	.....	10	.....	.....	24 h'r	24 h'r	6	sse.	raining.
LEYLAND LINE.																		
S. S. Iberian, N. 42° 25′, W. 59° 20′	29.72	754.9	.....	.....	.....	nw.	.....	.....	1	.....	10	.....	nw.	0	0	slight	nw.	
MALLORY LINE.																		
S. S. Colorado, New York, N. Y.†	30.08	764.0	45	7.2	.....	ne.	.....	.....	2	.....	0	.....	.....	0	0	.....	.....	clear.
MERCHANTS' EXPRESS LINE.																		
S. S. Freja, N. 44° 25′, W. 39° 06′†	29.86	758.4	57	13.9	87	sw.	.....	.....	4–5	.....	10	.....	sw.	rain	rain	mod.	wsw.	drizzling.
MERCHANTS' STEAMSHIP COMPANY.																		
S. S. Glenapp, N. 27° 58′, W. 62° 19′*†	30.06	763.5	.....	.....	.....	sw.	.....	.....	4	.....	3	.....	sw.	0	0	sm'h	.....	clear.
NATIONAL LINE.																		
S. S. Denmark, N. 41° 20′, W. 47° 13′	29.79	756.7	56	13.3	.....	s.	.....	.....	4	.....	10	.....	s.	5 h'r	5 h'r	long	sw.	hazy.
S. S. England, N. 47° 57′, W. 30° 33′	29.81	757.2	.....	.....	.....	wsw.	.....	.....	6	.....	.....	.....	.....	0 h'r	0 h'r	h'vy	w.	squally.
S. S. Erin, London, England	29.51	749.5	60	15.6	.....	ssw.	.....	.....	3	.....	10	.....	nw.	0	0	.....	.....	fine.
S. S. Italy, N. 40° 18′, W. 63° 30′	29.88	758.9	45	7.2	92	ne.	.....	.....	3	.....	8	.....	nne.	0	0	mod.	n.	cloudy.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S Niagara, N. 33° 52′ W 76° 47′†	29.96	761.0	53	11.7	80	nne.	.....	.....	5	.....	10	.....	nnw.	24 h'r	24 h'r	sm'h	.....	cloudy.
NEW YORK HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, New York, N. Y*†	30.10	764.5	44	6.7	.....	n.	.....	.....	4	.....	5?	.....	nw.	0	0	.....	.....	clear.?
S. S. City of Puebla, Off Progresso Roads, Mexico†	29.78	756.4	77	25.0	.....	sse.	.....	.....	2	.....	5	.....	sse.	.....	.....	light	se.	
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Alvena, N. 32° 05′, W. 68° 58′	29.79	756.7	68	20.0	.....	ssw.	.....	.....	4–7	.....	.....	.....	.....	.....	.....	.....	wsw.	thnd'r st'rm
S. S. Atlas, N. 35° 38′, W. 74° 07′*†	29.99	761.7	53	11.7	.....	n.	.....	.....	7	.....	.....	.....	.....	.....	.....	.....	n.	clear.
S. S. New York, N. 33° 05′, W. 76° 50′ *†	30.00	762.0	58	14.4	.....	nne.	.....	.....	6	.....	.....	.....	.....	.....	.....	.....	nne.	
S. S. Olbers, S. 5° 40′, W. 33° 00′.*†	30.06	763.5	83	28.3	.....	e.	.....	.....	4	.....	.....	.....	.....	.....	.....	.....	ene.	fine.
S. S. W. A. Scholten, N. 49° 58′ W. 2° 56′.	29.49	749.0	59.4	15.2	.....	nw.	.....	.....	6	.....	.....	.....	.....	.....	.....	.....	.....	gloomy.
NORTH GERMAN LLOYD.																		
S. S. Graf Bismarck, S. 10° 10′, W. 36° 10′	30.09	764.3	84.3	29.0	.....	ne.	.....	.....	3	.....	2	.....	ne.	0	0	sm'h	ne.	fair.
S. S. Hapsburg, N. 49° 35′, W. 23° 18′	29.78	756.4	54.5	12.5	.....	sw.	.....	.....	6	.....	10	.....	sw.	2 h'r	2 h'r	mod.	sw.	cloudy.
S. S. Kronprinz F. Wilhelm, N. 45° 35′, W. 41° 37′	29.73	755.1	51.8	11.0	.....	s.	.....	.....	2	.....	10	.....	.....	6 h'r	6 h'r	3	s.	light rain.
S. S. Mosel, N. 45° 11′ W. 41° 05′	29.85	758.2	53	11.7	.....	wsw.	.....	.....	5	.....	10	.....	wsw.	6 h'r	6 h'r	mod.	sw.	hazy.
S. S. Nurnburg, N. 41° 48′, W. 46° 44′*	29.79	756 7	53.6	12.0	.....	sse.	.....	.....	6	.....	10	.....	sso.	8¾h'r	8¾h'r	cross	s.	clearing.
S. S. Ohio, N. 48° 33′, W. 17° 19′	29.98	761.5	.....	.....	.....	w.	.....	.....	4	.....	10	.....	w.	0	0	mod.	w.	misty.
S. S. Rhein, N. 49° 38′, W. 10° 31′	29.86	758.4	.....	.....	.....	nw.	.....	.....	4	.....	6	.....	nnw.	0	0	mod.	nw.	fair.
S. S. Saller, N. 44° 04′, W. 42° 16′	29.80	759.9	54.5	12.5	.....	ssw.	.....	.....	6	.....	10	.....	ssw.	7 h'r	7 h'r	h'vy	sw.	hazy.
S. S. Strassburg, N. 41° 07′, W. 57° 34′	29.84	757.9	48.0	8.9	82	n.	.....	.....	2–3	.....	10	.....	nnw.	0	0	mod.	n.	cloudy.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Belgic, N 37° 31′ W. 142° 53′†	30.30	769.6	60	15.6	71	wnw.	.....	.....	4	.....	10	.....	wnw.	0	0	high	nw.	cloudy.
S. S. Oceanic, Hong Kong, China*	29.89	759.2	71	21.7	90	se.	.....	.....	4	.....	.....	.....	.....	0	0	.....	.....	cloudy.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, N. 33° 03′, W. 78° 48′†	29.93	760.2	.....	.....	.....	nne.	.....	.....	5	.....	10?	.....	sw.	.....	.....	.....	.....	clear ?
S. S. Seminole, N. 41° 40′, W. 69° 50′†	30.02	762.5	38	3.3	63	nne.	.....	.....	5	.....	5?	.....	ne.	.....	.....	sm'h	ne.	clear?
OREGON IMPROVEMENT COMPANY.																		
S. S. Mississippi, N. 48° 12′, W. 123° 23′†	29.50	749.3	42	5.6	74	se.	.....	.....	3	.....	5	.....	se.	.....	.....	.....	.....	fair.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. City of Chester, N. 42° 25′, W. 124° 47′*†	29.70	754.4	45	7.2	84	sw.	.....	.....	5	.....	5?	.....	s.	.....	.....	r'gh	s.	cloudy.?
S. S. Oregon, N. 40° 26′, W. 124° 34′†	29.83	757.7	45	7.2	84	sw.	.....	.....	3	.....	5	.....	sw.	.....	.....	mod.	wnw.	squally.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, San Francisco, Cal.†	29.97	761.2	49	9.4	93	s.	.....	.....	3	.....	10	.....	s.	.....	.....	.....	.....	rainy.
S. S. Idaho, Victoria, B. C.†	29.85?	758.2?	41	5.0	91	calm	.....	.....	0	.....	8	.....	n.	.....	.....	.....	.....	cloudy.
S. S. State of California, Portland, Oregon†	29.53	750.0	38	3.3	81	se.	.....	.....	3	.....	10	.....	se.	.....	.....	.....	.....	overcast.
S. S. Victoria, N. 41° 31′ W. 125° 20′†	29.27?	743.5?	41	5.0	100	sse.	.....	.....	3	.....	8	.....	.....	.....	.....	h'vy	w.	squally.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, Auckland, New Zealand	30.25	768.3	58	14.4	88	sw.	.....	.....	5	.....	10	.....	sw.	.....	.....	sm'h	.....	drizzling.
S. S. City of New York, Sydney, N. S. W.†	29.95	760.7	64	17.8	?	sw.	.....	.....	1	.....	1?	.....	sw.	0	0	.....	.....	overcast?

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
PACIFIC MAIL STEAMSHIP COMPANY.—CONTINUED.																		
S. S. City of Pekin, N. 22° 37′, W. 105° 29′†	29.91	759.7	71	21.7	80	n.			3		2					sm'h		hazy.
S. S. City of Rio de Janeiro, Panama, Panama*†	30.08	764.0	77	25.0	86	n.			1		0					sm'h	nw.	clear.
S. S. City of Tokio, N. 34° 34′, E. 151° 29′†	30.08	764.0	66	18.9	81	sse			4		5		nw.	0	0	mod	w.	hazy.
S. S. Clyde, N. 17° 50′, W. 100° 52′†	29.93	760.2	78	25.6	86	calm			0		2		ne.	0	0	light	sw.	clear.
S. S. Colon, N. 36° 54′, W. 74° 07′†	30.00	762.0	45	7.2		nne.			5		0			0	0	mod.	nne.	clear.
S. S. Grenada, N. 22° 58′, W. 108° 33′†	29.98	761.5	72	22.2	85	e.			1		2?		e.	0	0	light	w.	cloudy.†
S. S. South Carolina, St. Lucas Bay, Costa Rica	29.89	759.2	79	26.1	86	nw.			2		2		ne.	0	0	sm'h		fair.
S. S. Zelandia, S. 6° 21′, W. 168° 23′	29.73	755.1	84	28.9	96	e.			3		0					mod.	e.	clear.
QUEBEC STEAMSHIP CO.																		
S. S. Muriel, Guadaloupe, W. I.	30.03	762.7	81	27.2		ene.			3		0			0	0	sm'h		fair.
S. S. Bermuda, St. Christopher†.	30.18	766.6	61	16.1		ene.			4		4		ene.	0	0	sm'h		fine.
RED STAR LINE.																		
S. S. Belgenland, N. 47° 06′, W. 27° 01′†.	30.09	764 3	58	14.4	94	sw.			7		9		wsw.	2 h'r	2 h'r	h'vy	wsw.	cloudy.
S. S. Nederland, N. 39° 52′, W. 62° 45′*†.	30.01	762.2	43	6.1		n.			2		8		n.	0	0	sm'h	sw.	cloudy.
S. S. Rhynland, N. 40° 35′, W. 73° 30′	30.02	762.5	38	3.3	63	n.			2		0			0	0	sm'h		clear.
S. S. Vaderland, N. 49° 55′, W. 4° 50′	29.65	753.1	54	12.2	80	w.			4		10		w.	2 h'r	2 h'r	r'gh	w.	hazy.
S. S. Waesland, N. 48° 23′, W. 17° 34′	30.01	762.2	58	14.4		wsw.			4		10		w.	4 h'r	4 h'r	mod.	w.	misty.
ROTTERDAM LINE.																		
S. S. Schiedam, N. 41° 40′ W. 49° 02′*	29.70	754.4	59.2	15.1	96	ssw.			5		8		wsw.	5 h'r	5 h'r	r'gh	w.	hazy.
STATE LINE.																		
S. S. State of Florida, Glasgow, Scotland	29.51	749.5	53	11.7		w.			5		10		w.	10 h'r	10 h'r			cloudy.
S. S. State of Georgia, N. 42° 58′, W. 48° 52′†.	29.79	756.7	31	—0.6		se.			2		10					long	sw.	heavy rain.
S. S. State of Indiana, N. 54° 50′, W. 10° 40′†.	29.44	747.8	49	9.4		nne.			5		3		nne.	0	0	long	n.	fair.
THINGVALLA LINE.																		
S. S. Thingvalla, N. 44° 02′, W. 48° 24′†.	29.98	761.5	36.5	2.5		sw.			2		10			9 h'r	9 h'r	sm'h	sw.	covered.
WHITE CROSS LINE.																		
S. S. Hermann, N. 49° 56′, W. 4° 58′†.	29.85	758.2				w.			4	4 ck	0			0	0	mod.	nw.	clear.
WHITE STAR LINE.																		
S. S. Baltic, N. 51° 12′, W. 18° 09′†.	29.87	758.7	50	10.0	86	sw.			4		10		wsw.	3 h'r	3 h'r	mod.	wnw.	drizzling.
S. S. Britannic, N. 48° 26′, W. 31° 20′†.	29.77	756.1	48	8.9		wnw.			6		5		w.	4 h'r	4 h'r	high	w.	d. clouds.
S. S. Celtic, New York, N. Y†.	30.05	763.3	48	8.9		ne.			3		0			0	0			fine.
WILSON LINE.																		
S. S. Otranto, N. 49° 30′, W. 10° 12′†.	29.40?	746.7?	56	13.3		wnw.			6				wnw.			cross	wnw.	cloudy.
S. S. Romano, New York, N. Y*†.	29.87	758.7	47	8.3														clear.
S. S. Salerno, N. 49° 28′, W. 7° 38′*	29.81	757.2	60	15.6	76	wnw.			5		9		wnw.			rg'h	wnw.	d. clouds.
WINSOR LINE.																		
S. S. Catherine Whiting, Delaware Bay, Del.†.	30.12	765 0				nne.			1		0			0	0			
S. S. Norman, N. 38° 55′, W. 75° 05′.	30.17	760.3				ene.			2		0					sm'h		
MISCELLANEOUS.																		
Schr. Abbie Clifford, N. 36° 04′ W. 57° 04′*†.	29.80	756.9	70	21.1		ssw.			6		4			1 h'r	1 h'r	mod.	sse.	fair.
Sch. Addie Fuller, Newport News, Va†.	30.10	764.5	43.5	6.4	84	nw.			3		0			0.18	4.6			clear.
Bk. Adelaide, Rio de Janeiro, Brazil*†.	30.30	769.6	74	23.3		se							ese.					
Schr. Ajax, Mobile, Ala†.	30.15	765.8				n.			1				nw.	0	0			clear.
Bk. Alpha, Santiago de Cuba, W. I.†.	29.95	760.7	80	26.7		calm			0		2			0	0			fair.
Sch'r Annie R. Lewis, N. 28° 06′, W. 90° 00′*†.	30.07	763.8	76	24.4		nne.			4		0			0	0	long	e.	clear.
Bk. Antioch, S. 40° 12′ E. 31° 00′*†.	29.50	749.3	65	18.3		w.			8		7		w.	0	0	mod.	wnw.	threatening
Schr. Asa Eldridge, Punta Rassa, Fla†.	30.00	762.0				nnw.			3		2		w.	1 h'r	1 h'r			threatening.
Bk. Aureola, S. 10° 04′, W. 32° 17′*†.	30.11	764.8	98	36.7		ene.			3		4		ene.	0	0	light	e.	fine.
Sch'r Annie M. Small, S. 40° 50′ E 75° 30′*†.	29.60	751.8	53	11.7		n.							n.	4 h'r	4 h'r			
Bkt. Carrie Heckle, Cienfuegos, Cuba, W. I.*†.	30.14	765.5	80	26.7		calm			0		0			0	0			
Bk. Celestina, S. 32° 32′ W. 48° 20′*†.	30.34	770.6				ene.			2		9		n.	0	0	long	sse.	cloudy.
Bk. Champion, N. 48° 49′ W. 6° 02′†.	29.96	761.0				nnw.			6		5		nw.	0	0	long	n.	
S. S Compton, Havana, Cuba, W I.†	30.03	762.7				calm			0		1		calm	0	0			clear.
Dora, N. 39° 56′, W. 54 28′†.	29.78	756.4	66.2	19.0		sw.			7–8		10		sw.	2 h'r	2 h'r	mod.	wsw.	cloudy.
S. E. J. Spicer, N. 39° 49′, W. 55° 00′†.	29.82	757.4				var.			3		10		nw.	20 h'r	20 h'r	cross	wsw.	raining.
S. Enoch Train, N. 40° 27′, W. 43° 51′*.	29.94	760.5				sw.			5		5		wsw.	0	0	light	sw.	hazy.
S. Exporter, S 8° 00′, W. 29° 00′*†.	30.10	764.5				se.			5		1		se.	0	0	long	se.	fine.
Ship Festina Lente, N. 39° 42′, W. 54° 08′*.	29.71	754.6	62	16.7		calm			0		10		nw.	12 h'r	12 h'r	cross	sw.	cloudy.
U. S. F. C. S. FishHawk, Quantico, Va.†.	30.09	764.3	40	4.4	73	nw.			3		1		nw.	0.34	8.6			clear.
S. Grecian, S. 41° 03′, E. 34° 14′*†.	29.47	748.5	58	14.4		wnw.			5		9		w.	2 h'r	2 h'r	long	sw.	squally.
Bk. Freya, N. 47° 34′, W. 19° 56′.			57	13.9		wsw.			5		10		wsw.	0	0	mod.	wsw.	cloudy.
Bk. Granville, Algoa Bay Africa*†.	30.09	764.3				w.			1					0	0			clear.
Bk Hattie G. McFarland, Baltimore, Md*†.	30.09	764.3	58	14.4		nw.			3		4		n.	0	0			fair.
Schr. Henry Denison, N. 29° 26′, W. 74° 55′†.	29.84	757.9				sw.			5		4		w.	0	0	r'gh	sw.	fair.
S. Hedwig, N. 41° 26′, W. 34° 42′.	29.69	754.1	55.2	12.9	94	n.			2		8		ne.	14 h'r	14 h'r	4	wsw.	
Schr. John L. Thomas, Serranilla Banks, W. I*†.	30.10	764.5				ne					4		e.	0	0		e.	fine.
Bg. John Wesley, Sagua la Grande, Cuba, W. I.†.	29.92	760.0	78	25.6		sse.			2		0			0	0			clear.
Bk. J na, N. 47° 17′ W. 15° 30′*†.	30.30	769.6				wnw.			2		5		nw.	6 h'r	6 h'r	cross	var.	clearing.
Bk. Josephine, N. 10° 00′ W. 76° 19′*†.	29.96	761.0	83	28.3	74	ne.			3		2			0	0	long	nne.	fair.
Bk. Kate Cann, N. 47° 40′, W. 15° 30′*†.	29.68?	753.9?				wnw.			3		5		wnw.	4 h'r	4 h'r	r'gh	wnw	fine.
Bkt. Kryolith, N. 44° 18′, W. 12° 13′*†.	30.15	765.8				nw.			2		8		nw.	0	0	mod.	nw.	cloudy.
S. Lake Erie, N. 46° 52′ W. 24° 52′.	30.01	762 2				wsw.			6		10		w.	light	light	mod.	wsw.	hazy.
S. S. Lamperts, N. 46° 16′, W. 7° 42′*.	29.99	761.7	53.6	12.0	76	nw.			6		6					5		raining.
Bk. Liberia, N. 8° 36′, W. 14° 07′*†.	30.05	763.3	74	23.3	85	nw.			2		3		ne.	0	0			
Light House Tender, Laurel, Key West, Florida†.	30.01	762.2	81	27.2		wsw.			2		8		wsw.	0	0			cloudy.
Schr. Maggie Abbott, Baracoa, Cuba, W. I*†.	29.92	760.0																
S. S. Malabar, Suez Canal, Egypt*†.	29.97	761.2							2					0	0			
Bg. Medina, Key Francis, Fla†.	30.11	764.8				wnw.			2		1		nw.					fine.
S. S. Nebo, Rio de Janeiro, Brazil*†.	30.08	764.0				calm			0		2			0	0			clear.
Bk. Peppina, Bordeaux, France†.	29.92	760.0	59	15.0	59	sw.			4		5		w.					raining.
S. Salisbury, S. 9° 09′, W. 28° 08′*.	30.05	763.3	86.4	30.2	82	ese.			3–4		5		ese.	¼ h'r	¼ h'r	mod.	ese.	fair.
Schr. S. B. Hubbard, N. 33° 18′, W. 77° 55′*†.	30.05	763.3	70	21.1		nne.			3		10			5 h'r	5 h'r	h'vy	ne.	threatening.
Bkt. Spotless, S. 16° 25′ W. 35° 15′*†.	30.00	762 0				sse.							sse.			hv'y	ssw.	rainy.
Bk. Stella, S. 33° 47′, W. 84° 24′*.	30.05	763.3	65.7	18.7	86	nw.			3		6		sw.	0	0	sm'h	w.	squally.
Utopia, N. 40° 22′ W. 69° 49′†.	30.07	763.8	44	6.7	67	nnw.			3		5?		nnw.	0	0	sl't	n.	cloudy?
Washington, N. 44° 47′, W. 38° 50′*†.	29.77	759.1				wnw.			3		10			8 h'r	8 h'r	r'gh	wnw.	hazy.
Bg. Wauburn, N. 11° 13′ W. 49° 05′*†.	30.00	762.0				ene.			6		7		ene.				e.	
S. Wm. Woodbury, N. 38° 07′, W. 46° 28′*†.	29.88	758.9	68	20.0		ssw.			7				sw.			cross	sw.	foggy.

International Chart I. April 24, 1882. Isobars and Isotherms.

UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON APRIL 25, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
ALGERIAN.																			
Nemours	.....	.....	30.13	765.2	72.0	22.2	78	w.	.....	.....	3	.....	0	.....	.....	0	0	clear.....	Moiroud
Algiers	.....	.....	30.05	763.2	73.8	23.2	50	sw.	.....	.....	4	.....	1	.....	.....	0	0	fair.....	Nicolas.
La Calle	.....	.....	30.03	762.7	68.4	20.2	82	n.	.....	.....	1	.....	2	.....	.....	0	0	fair.....	Fonfrède.
Tunis	.....	.....	30.02	762.5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.20	767.0	71.6	22.0	32	w.	.....	.....	2	.....	2	.....	.....	0	0	fair.....	Dumas.
Tebessa	.....	.....	30.15	765.7	58.3	14.6	63	nw.	.....	.....	1	.....	1	.....	.....	0.906	23.0	fair.....	Derché.
Geriville	.....	.....	.....	.....	67.3	19.6	21	nw.	.....	.....	2	.....	4	.....	.....	0	0	pretty fair...	Lonchamp.
Laghouat	.....	.....	30.17	766.3	68.0	20.0	58	sw.	.....	.....	1	.....	0	.....	.....	0	0	fair.....	Abraham.
Biskra	.....	.....	30.15	765.9	80.2	26.8	23	se.	.....	.....	1	.....	0	.....	.....	0	0	clear.....	Malau.
AUSTRALIAN.																			
Melbourne, Victoria	29.57	751.1	29.66	753.3	58.3	14.6	79	nnw.	19	8.5	.....	.....	5	.....	.....	0	0	fine.....	R. L. J. Ellery.
AUSTRO-HUNGARIAN.																			
Agram	29.28	743.7	29.81	757.2	69.4	20.8	24	sw.	.....	.....	6	.....	5	.....	.....	0	0	.....	Prof. Ivan Stozir.
Cracow, I. R Observatory	28.94	735.1	29.69	754.1	62.6	17.0	39	w.	15.4	6.9	.....	.....	2	.....	.....	0	0	.....	Dr. Wierzbiski.
Eperies	28.82	732.1	29.67	753.5	70.5	21.4	37	s.	.....	.....	5	cs	5 s	.....	n.	0	0	.....	Julius Mikolik.
Gratz	28.56	725.3	29.76	756.0	65.3	18.5	40	w.	.....	.....	3	.....	2	.....	.....	0	0	.....	Andreas Rospini.
Hermannstadt	28.41	721.7	29.79	756.7	67.3	19.6	40	wnw.	.....	.....	3	.....	10	.....	.....	0	0	.....	Prof. A. Gottschling
Kremsmunster, Obs'y	28.41	721.5	29.71	754.7	60.3	15.7	39	calm	.....	.....	0	3 ck	0	.....	.....	0	0	.....	The Staff.
Lemberg	28.71	729.3	29.66	753 4	68.7	20.4	36	sw.	.....	.....	3	.....	10	.....	.....	0	0	.....	Dr. T. Stanecki.
Pola	29.82	757.5	29.93	760.3	64.0	17.8	55	sw.	.....	.....	1	.....	4	.....	.....	0	0	.....	I. R. Hydrographic Office.
Szathmar	29.33	745.0	29.78	756.5	68.7	20.4	42	s.	.....	.....	4	.....	9	.....	.....	0	0	.....	Joseph Midlinszky, S. J
Szegedin	29.56	750.9	29.84	757.8	67.5	19.7	43	w.	.....	.....	3	.....	6	.....	.....	0.067	1.7	.....	Karl Stancel.
Trieste	29.86	758.4	29.96	761.0	64.0	17.8	51	calm	.....	.....	0	.....	2	.....	.....	0	0	.....	Rieder.
Vienna	29.08	738.6	29.78	756.3	63.5	17.5	38	se.	.....	.....	2	.....	7	.....	.....	0	0	.....	I. R. Central Met. Obs'y.
BRITISH.																			
Aberdeen	29.10	739.1	29.20	741.7	48.0	8.9	62	wnw.	30	13.4	.....	.....	7	.....	.....	0.040	1.0	squally.....	W. Boswell.
Armagh, Observatory	29.18	741.2	29.42	747.3	46.6	8.1	60	nnw.	9	4.0	.....	.....	8	.....	.....	.....	.....	d. clouds.....	S. Call.
Bidston, Liverpool Obs'y	.....	.....	29.36	745.7	47.0	8.3	69	wnw.	12	5.4	.....	.....	8	.....	.....	.....	.....	overcast.....	John Hartnup.
Bolton, Sharples	28.81	731.8	29.34	745.2	47.8	8.8	62	wnw.	7	3.1	.....	.....	6	.....	.....	.....	.....	d. clouds.....	Thomas Mackereth. [A.S.
Bradford, Yorkshire	28.87	733.3	29.37	743.4	48.3	9.1	72	w.	.....	.....	1	.....	9	.....	.....	0.01	0.3	overcast.....	J.McLandsborough, F. R
Bridgetown, Barbadoes	29.96	761.0	29.99	761.7	84.0	28.9	71	ne.	.....	.....	2	.....	3	.....	.....	.....	.....	d. clouds.....	Corpl. J. Surgenor, A. H.C.
Cardington	.....	.....	29.36	745.7	54.0	12.2	65	sw.	.....	.....	0.4	.....	10	.....	.....	blank	blank	overcast.....	John McLaren.
Chatham, School M. E	29.29	744.0	29.42	747.3	48.4	9.1	85	sw.	.....	.....	2	.....	10	.....	.....	.....	.....	raining.....	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	29.06	738.1	29.28	743.7	51.4	10.8	75	w.	.....	.....	5	.....	10	.....	.....	.....	.....	overcast.....	The Staff.
Fort Napier, Natal	27.65	702.3	29.86	758.4	81.2	27.3	31	e.	.....	.....	1	.....	0	.....	.....	.....	.....	blue sky.....	Pvt. E. K. Annis, A.H.C.
Free Town, Sierra Leone	29.58	751.3	29.82	757.4	88.0	31.1	55	w.	.....	.....	1	.....	5	.....	.....	.....	.....	d. clouds.....	Sergt. John Robinson.
Gibraltar, Mediterranean	30.13	765.3	30.18	766.6	68.2	20.1	79	w.	.....	.....	4	.....	4	.....	.....	.....	.....	d. clouds.....	Cpl. O. Baldwin.
Glasgow, Observatory	29.09	738.9	29.30	744.2	47.3	8.5	60	wnw.	.....	.....	3	.....	6 k	.....	.....	.....	.....	d. clouds.....	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.22	742.2	29.40	746.7	49.3	9.6	85	s.	.....	.....	1	.....	10	.....	.....	0.70	17.8	raining.....	The Staff.
Guernsey	29.01	736.8	29.31	744.5	51.3	10.7	97	wnw.	.....	.....	2	.....	10	.....	.....	.....	.....	raining.....	A. Collenette, F. M. S.
Kew, Observatory	29.36	745.7	29.40	746.7	48.8	9.3	81	s.	10	4.5	.....	.....	10	.....	.....	.....	.....	raining.....	The Staff.
Leicester, Museum	29.10	739.1	29.35	745.5	49.0	9.4	53	sw.	.....	.....	1	.....	10	.....	.....	blank	blank	overcast.....	J. C. Smith.
Malta, Mediterranean	29.99	761 7	30.07	763.8	66.0	18.9	64	nw.	.....	.....	2	.....	8	.....	.....	.....	.....	overcast.....	I. H. Whysall.
Nassau, Bahamas	30.05	763.3	30.10	764.5	76.5	24.7	74	ne.	.....	.....	2	.....	4	.....	.....	.....	.....	d. clouds.....	C. S. Duncombe.
Oscott, St. Mary's College	28.84	732.5	29.36	745.7	47.9	8.8	62	w.	.....	.....	1	.....	10	.....	.....	.....	.....	overcast.....	John Mac Emall.
Oxford, Radcliffe Obs'y	29.14	740.1	29.36	745.7	47.6	8.7	76	se.	.....	.....	1	.....	10	.....	.....	.....	.....	drizzling..	The Staff.
Plymouth	29.18	741.2	29.25	742.9	50.6	10.3	95	sw.	.....	.....	4	.....	10	.....	.....	.....	.....	raining.....	John Merrifield.
Sandwick Manse, Orkneys	.....	.....	29.18	741.2	43.5	6.4	92	nnw.	40	17.9	.....	.....	10	.....	.....	.....	.....	raining.....	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.77	756.1	29.84	757 9	66.2	19.0	48	s.	.....	.....	1	.....	0	.....	.....	.....	.....	blue sky.....	W. H. Lyne.
Sheffield	29.06	738.1	29.34	745.2	55.2	12.9	68	wsw.	.....	.....	1	.....	6	.....	.....	.....	.....	d. clouds.....	W. F. Cooper.
Silloth Rectory	29.28	743 7	29.30	744.2	47.1	8.4	67	nw.	.....	.....	3	.....	8	.....	.....	0	0	d. clouds.....	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	29.36	745.7	47.0	8.3	65	wnw.	14	6.3	.....	.....	7	.....	.....	blank	blank	d. clouds.....	Rev. S. J. Perry.
Stratfield Turgiss	.....	.....	.....	.....	46.5	8.1	92	se.	.....	.....	1	.....	10	.....	.....	.....	.....	raining.....	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	29.19	741.4	29.22	742.2	55	12.8	82	n.	.....	.....	6	.....	5	.....	.....	.....	.....	d. clouds.....	W. Newcombe.
Valencia, Observatory	29.42	747.3	29.44	747.8	48.3	9.1	77	ne.	9	4.0	.....	.....	10	.....	.....	blank	blank	d. clouds.....	The Met'g'l Office.
CANADIAN.																			
Bathurst, N. B	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.88	758.9	29.92	760.0	33	0.6	89	n.	20	8.9	.....	.....	10 s	.....	.....	0.065	1.6	cloudy.....	H. J. Cundall, C. E.
Chatham, N. B*	30.02	762.5	30.09	764.3	34	1.1	78	nw.	7	3.1	.....	.....	10 n	.....	nw.	0	0	cloudy.....	G. A. Blair.
Father Point, Quebec*	30.15	765.8	30.17	766.3	32	0.0	85	ne.	13	5.8	.....	.....	10 k	.....	calm	0	0	threatening.	J. McWilliams.
Fort Garry, Manitoba*	29.25	742.9	30.09	764.3	39	3.9	70	se.	15	6.7	.....	5 k	5 n	s.	s.	0.002	0.1	cloudy.....	James Stewart.
Halifax, N. S*	29.87	758.7	30.00	762.0	33	0.6	81	nw.	11	4.9	.....	10 k	0	n.	.....	inap.	inap.	cloudy.....	A. Allison.
Kingston, Ontario*	29.98	761.5	30.33	770.4	33	0.6	52	n.	3	1.3	.....	0	0	.....	.....	0	0	clear.....	A. P. Knight, M. A.
Montreal, Quebec*	30.05	763.3	30.27	768.8	34	1.1	45	n.	4	1.8	.....	0	0	.....	.....	0	0	clear.....	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.64	752.8	30.37	771.4	30	— 1.1	77	ne.	6	2.7	.....	0	0	.....	.....	0	0	clear.....	Rev. R. Mosley.
Port Dover, Ontario	29.61	752.1	30.33	770.4	33	0.6	89	n.	5	2.2	.....	0	0	.....	.....	0	0	clear.....	H. Morgan.
Port Stanley, Ontario	29.63	752.6	30.32	770.1	30	— 1.1	88	e.	6	2.7	.....	2 ok	0	nw.	.....	0	0	clear.....	M. Payne.
Quebec, Quebec*	29.88	758.9	30.22	767.6	24	— 4.4	80	n.	.....	.....	3	2 k	5 s	e.	e.	0.01	0.3	fair.....	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.87	758.7	30.35	770.9	28	— 2.2	59	w.	2	0.9	.....	0	0	.....	.....	0	0	clear.....	W. H. McIntyre.
Saugeen, Ontario*	29.60	751.8	30.35	770.9	34	1.1	71	calm	0	0	.....	0	0	.....	.....	0	0	clear.....	
St. Andrews, N .B	30.05	763.3	30.10	764.5	33	0.6	70	nw.	8	3.6	.....	0	0	.....	.....	0.04	1.0	clear.....	
Sydney, C. B*	29.78	756.4	29.84	757.9	35	1.7	72	w.	10	4.5	....	0	8 k	.....	nw.	0	0	fair.....	T. C. Hill, C. E.
Toronto, Ontario*	29.95	760.7	30.35	770 9	35	1.7	61	n.	5	2.2	.....	0	0	.....	.....	0	0	clear.....	Magnetic Observatory.
Yarmouth, N. S*	30.00	762.0	30.07	763.8	35	1.7	82	n.	8	2.7	.....	2 k	0	n.	.....	0.02	0.5	clear.....	Lt. F. E. Wilmot, R. N.
Sub-series.																			
St. Johns, Newfoundland	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	John Delany.
CAPE COLONY.																			
Cape St. Francis Lt. House	30.05	763.3	30.08	764.0	70.0	21.1	83	w.	16.0	7.2	.....	0	2 s	....	.....	0	0	hazy	John Duthie.
Cape Town, O. G. H. Obs'y	30.09	764 3	30.12	765.0	65.5	18.6	94	nnw.	9	4.0	.....	10	10	....	....	0.245	6.2	.....	The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Chinese (*Sub-series*).																			
Hankow	29.73	755·1	30.01	762.2	59.7	15.4	99	e.	.....	.....	2	.....	10	.....	.....	0	0	.....	N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.91	759 8	29.94	760.4	61.2	16.2	98	ese.	8.5	3.8	.....	.....	10n	.....	.....	0.067	1.7	raining	M. Marc Dechevrens, S.J.
Danish.																			
Copenhagen	29.29	743.9	29.34	745.1	52.7	11.5	66	ssw.	22	10	.....	.....	9	.....	.....	.....	.....	raining	Oversergent Fischer.
Fanöe	29.18	741.1	29.20	741.6	48.0	8.9	89	wsw.	.....	.....	6	.....	10	.....	.....	.....	.....	.....	Overloerer Lauridsen.
Godthaab, Greenland	29.96	761.0	30.00	762.1	24.4	— 4.2	77	nne.	.....	.....	4	.....	0	.....	.....	.....	.....	.....	S. Kleinschmidt.
Stykkisholm, Iceland	29.86	758.5	29.91	759.6	25.9	— 3.4	93	e.	.....	.....	2	.....	2	.....	.....	.....	.....	.....	A. O. Thorlacius.
Thorshavn	29.51	749.6	29.55	750.5	36.3	2.4	87	nne.	22	10	.....	.....	10	.....	.....	.....	.....	snowing	Overloerer Bergh.
Vestervig	29.05	737.9	29.14	740.2	45.9	7.7	91	calm	.....	.....	0	.....	9	.....	.....	.....	.....	raining	Loerer Oesterbol.
French.																			
Agen, Normal School	29.30	744.2	29.95	760.6	58.6	14.8	68	ssw.	.....	.....	1	.....	k;kn	.....	sw.	0.024	0.6	.....	M. Labroue, Director.
Alençon, Normal School	29.03	737.3	29.58	751.3	54.7	12.6	95	s.	.....	.....	3	.....	10 n	w.	w.	0.063	1.6	raining	M. Nicot, Director.
Arras, Engineer School	29.23	742.4	29.49	749.0	51.1	10.6	89	s.	.....	.....	3	.....	10	.....	w.	0.244	6.2	raining	Capt. Bertrand, Dir.
Avignon, Normal School	29.89	759.3	29.97	761.3	63.7	17.6	52	sw.	.....	.....	1	.....	5	.....	s.	0	0	cloudy	M. Giraud, Director.
Bar-sur-Seine	29.18	741.1	29.73	755.2	52.0	11.1	86	s.	.....	.....	2	.....	10	.....	.....	0	0	covered	M. Saillard, Director.
Beauvais, Normal School	29.28	743.8	29.54	750.4	54.5	12.5	81	s.	.....	.....	2	.....	1c	.....	s.	0.059	1.5	raining	M. Frère Eugène Marl.
Besançon, Normal School	28.87	733.2	29.75	755.6	57.2	14	57	sw.	.....	.....	1	0	8 kn	.....	ne.	0	0	very cloudy	M. Gobin, Director.
Bordeaux, Observatory	29.58	751.3	29.84	757.9	58.5	14.7	64	wsw.	.....	.....	2	.....	10	.....	w.	0.028	0.7	covered	M. Rayet, Director.
Bourges, Normal School	29.18	741.1	29.72	755.0	51.8	11	81	ssw.	.....	.....	2	.....	n	.....	ssw.	0.130	3.3	.....	M. Postel, Director.
Brest, Naval Observatory	29.20	741.7	29.45	747.9	53.2	11.8	93	wnw.	.....	.....	2	.....	1c	.....	wnw.	0.205	5.2	raining	M. de Kermaree, Dir.
Caen, Normal School	29.39	746.6	29.47	748.4	54.3	12.4	87	s.	.....	.....	1	.....	8	.....	.....	0.04	1.	very cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.26	743.3	29.58	751.3	49.6	9.8	76	s.	.....	.....	2	.....	10	.....	.....	0.083	2.1	covered	M. Jadot, Director.
Charleville, Normal School	29.16	740.7	29.67	753.7	50.0	10.0	74	s.	.....	.....	2	.....	10	.....	se.	0	0	covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.48	723.5	29.84	757.9	52.5	11.4	57	s.	.....	.....	2	.....	10	.....	sw.	0	0	covered	M. Allnard, Director.
Cluny, Normal School	29.00	736.5	29.84	757.8	56.1	13.4	47	s.	.....	.....	3	.....	.....	.....	wsw.	0	0	.....	M. de Villemontée, Dir.
Commercy, Normal School	28.86	733.1	29.72	755.0	49.8	9.9	84	wsw.	.....	.....	4	.....	10 n	wsw.	wsw.	0.256	6.5	raining	Dr. Coulet, Director.
Gap, Normal School	27.45	697.2	29.94	760.5	60.8	16	46	w.	.....	.....	2	0	3 k	.....	w.	0	0	.....	M. Jeangirard, Director.
Gréasque, du. Rhone	28.86	733.0	29.98	761.4	58.5	14.7	52	nw.	.....	.....	3	.....	6	.....	w.	0	0	.....	M. Kina, Director.
Grenoble, Normal School	29.10	739.1	29.86	758 4	59.9	15.5	66	nw.	.....	.....	3	.....	sn	.....	sw.	0	0	.....	M. Ablard, Director.
Guéret, Normal School	28.20	716.3	29.78	756.4	48 2	9	69	wsw.	.....	.....	3	.....	n	.....	wsw.	0.12	3.	.....	M. Rivoire, Director.
Lamballe, Normal School	29.14	740.2	29.41	747.0	54.5	12.5	90	s.	.....	.....	3	.....	10	.....	s.	0.075	1.9	raining	M. Ollitrault, Director.
Lescar, Normal School	29.32	744.8	29.87	758.8	64.8	18.2	48	w.	.....	.....	1	.....	2	.....	.....	0.272	6.9	slightly cld'y	M. Chauvin, Director.
Lorient, Naval Observatory	29.35	745.4	29.45	748.0	54.5	12.5	100	sw.	.....	.....	8	.....	10	.....	.....	0.315	8.0	raining	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.85	732.7	29.90	759.4	56.7	13.7	54	s.	.....	.....	2	.....	10	.....	sw.	.....	.....	sprinkling	M. André, Director.
Mans, Normal School	29.27	743.5	29.58	751.3	49.1	9.5	95	sw.	.....	.....	6	.....	8	.....	ne.	0.126	3.2	very cloudy.	M. Piboen, Director.
Marseille, Observatory	29.73	755.2	30.00	762.0	59.5	15.3	56	wnw.	.....	.....	3	.....	5	.....	wnw.	0	0	.....	M. Stephan, Director.
Montlouis l'Instituteur	24.74	628.4	29.58	751.4	47.3	8.5	53	sw.	15.0	6.7	.....	.....	8	e.	.....	.....	.....	.....	M. Cave, for Dr. Fines.
Montpellier, Normal School	29.84	758.0	29.97	761.3	61.2	16.2	63	sw.	.....	.....	2	.....	5	.....	nw.	.....	.....	light rain	M. Galzin, Director.
Nancy, Normal School	28.91	734.4	29.70	754.3	49.6	9.8	81	s.	.....	.....	1	.....	10 kn	.....	.....	0.354	9.0	covered	M. Hasse, Director
Nantes, Observatory	29.47	748.4	29.63	752.5	54.0	12.2	90	ssw.	.....	.....	2–3	.....	10	.....	ssw.	0.16	4.	raining	M. Larocque, Director.
Perpignan, Observatory	29.88	758.9	29.99	761.7	61.5	16.4	58	s.	9.4	4.2	.....	.....	6	.....	wnw.	0.236	6.0	.....	Dr. Fines, Director.
Pic-du-Midi, Summit	21.12	536.4	.....	.....	28.2	— 2.1	.....	sw.	.....	.....	2	.....	5	n.	sw.	0.087	2.2	cloudy	Gen'l de Nansouty, Dir.
Privas, Normal School	28.87	733 2	29.89	759.3	60.4	15.8	44	s.	.....	.....	1	.....	2	s.	s.	0	0	slightly cl'dy	M. Tallieu.
Puy de Dôme Obs'y, Summit	24.90	632.4	.....	.....	32.9	0.5	100	wsw.	.....	.....	8	.....	10	.....	.....	0.193	4.9	foggy	M. Allnard, Director.
Rochefort, Naval Obs'y	29.74	755.5	29.78	756.3	56.5	13.6	95	w.	.....	.....	4	.....	10	.....	sw.	0.217	5.5	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.43	747.5	29.64	752.9	53.2	11.8	95	nw.	.....	.....	2	.....	10	.....	.....	0.445	11.3	covered	M. Mouillot, Director.
Rodez, Normal School	27.80	706.2	29.95	760.6	52.5	11.4	79	se.	.....	.....	1	.....	5	.....	.....	0.04	1.	fair	M. Serger, Director.
Rouen, Normal School	29.47	748.6	29.52	749.8	51.8	11	90	sw.	.....	.....	3	.....	8	w.	.....	0.126	3.2	raining	M. Brotier.
Saint Maur, Observatory	29.43	747.5	29.60	751.7	51.1	10.6	91	s.	.....	.....	3	.....	1c	.....	sw.	0.071	1.8	.....	M. Renou, Director.
Toulouse, Observatory	29.28	743.7	30.00	762.1	62.1	16.7	53	sw.	.....	.....	1	.....	5	w.	.....	0.047	1.2	cloudy	M. Bailland, Director.
Versailles, Observatory	29.08	738.6	29.57	751.1	52.9	11.6	80	sw.	.....	.....	3	.....	.....	.....	.....	0.311	7.9	.....	Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29 32	744.7	29.61	752.1	51.0	10.6	92	ssw.	.....	.....	3	.....	10	.....	sw.	0.087	2.2	.....	M. Marié Davy, Director
German.																			
Bamberg	28.87	733 2	29.71	754.7	51.8	11.0	73	sw.	.....	.....	4	0	8 k	.....	sw.	0.157	4.0	rainy	Prof. Dr. Hoh.
Berlin	29.36	745.8	29.54	750.3	50.0	10.0	68	sw.	.....	.....	4	.....	8	.....	.....	0.079	2.0	.....	Prof. Dr. Arndt.
Breslau	29.17	740.8	29.69	754.1	58.8	14.9	51	ssw.	.....	.....	5	.....	10	.....	.....	0	0	.....	Royal University Obs'y.
Carlsruhe	29.32	744 6	29.75	755.7	51.1	10.6	77	sw.	.....	.....	2	.....	10	sw.	.....	0.677	17.2	raining	Albert Senz.
Cassel	28.83	732.3	29.54	750.4	57.2	14.0	35	s.	.....	.....	8	.....	8	s.	.....	0.142	3.6	.....	Dr. H. Möhl.
Frankfort on the Main	29.28	743.8	29.64	752.9	56.7	13.7	63	wsw.	.....	.....	2	.....	9	.....	.....	0.280	7.1	.....	Physical Society.
Friedrichshafen	28.38	720.8	29.80	756.8	56.5	13.6	89	w.	.....	.....	5	.....	9	w.	.....	0.220	5.6	.....	Wilhelm, Chief Tel.
Hamburg	29.34	745.1	29.43	747.5	48.7	9.3	87	wsw.	.....	.....	7	.....	10	.....	.....	0.071	1.8	raining	E. Preller,
Kiel	29.33	744.9	29.34	745.3	48.2	9.0	86	sw.	.....	.....	4	.....	1c	.....	.....	0.114	2.9	.....	Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.19	741.4	29.60	751.9	56.1	13.4	48	sw.	.....	.....	6	.....	9	sw.	.....	0.228	5.8	.....	H. Leppig, Asst.
Magdeburg	29.35	745.4	29.53	750.1	55 8	13.2	51	w.	.....	.....	5	0	6 ks;k	.....	w.	0.035	0.9	.....	Dr. Assmann.
Memel	29.57	751.0	29.61	752.2	52.5	11.4	83	sw.	.....	.....	3	5 cs	0	.....	.....	.....	.....	.....	Issermann.
Munich	27.98	710 7	29.83	757.7	57.6	14.2	34	nw.	.....	.....	2	.....	9	w.	.....	0.008	0.2	.....	Central Station.
Neufahrwasser	29.54	750.2	29.55	750.6	63.7	17.6	37	ssw.	.....	.....	2	.....	6	.....	.....	0.110	2.8	.....	A. Lothes.
Neustadt, Palatinate	29.19	741.4	29.71	754.6	51.3	10.7	80	w.	.....	.....	3	.....	10	w.	.....	0.508	12.9	.....	Dicknether.
Stuttgart	28.82	732.1	29.72	754.8	50.0	10.0	89	w.	.....	.....	5	.....	10	.....	.....	0.091	2.3	.....	Prof. Dr. Schoder.
Wustrow	29.39	746.4	29.41	747.0	52.7	11.5	59	sw.	.....	.....	5	.....	10 s	.....	.....	0.039	1.0	.....	Profs. Brandes & Reimer.
Greek.																			
Athens	29.59	751.5	29.97	761.2	73.2	22.9	.....	sw.	.....	.....	2.0	2	.....	.....	.....	0	0	.....	Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.72	754.8	29.77	756.1	86.8	30.4	58	wsw.	30.0	13.4	.....	.....	0	.....	.....	0	0	blue sky	
Deesa	29.19	741.4	29.64	752.7	104.2	40.1	22	nw.	7.0	3.1	.....	.....	0	.....	.....	0	0	.....	
Bombay	29.71	754.7	29.75	755.5	85.0	29.4	73	wnw.	15.0	6.7	.....	.....	0	.....	.....	0	0	.....	
Poona, Yarrowda	27.85	707.3	29.63	752.6	96.6	35.9	19	wsw.	10.0	4.5	.....	.....	2	.....	wnw.	0	0	blue sky	
Belgaum	27.21	691.2	29.73	755.0	79.0	26.1	64	sw.	12.0	5.4	.....	.....	6	ne.	sw.	0	0	d. clouds	
Lahore	28.90	734.2	29.62	752.4	94.1	34.5	14	nw.	2.2	1.0	.....	.....	0	.....	.....	0	0	misty	
Roorkee	28.73	729.7	29.60	751.9	92.2	33.4	7	nw.	2.0	0.9	.....	.....	2	.....	.....	0	0	blue sky	
Agra	29.07	738.5	29.62	752.2	98.9	37.2	10	w.	2.7	1.2	.....	.....	0	.....	.....	0	0	.....	
Nagpur	28.62	726.9	29.62	752.3	99.9	37.7	6	nw.	3.5	1.6	.....	.....	0	.....	.....	0	0	.....	
Jubbulpore	28.34	719.7	29.64	752.8	98.7	37.1	6	n.	2.8	1.2	.....	.....	0	.....	.....	0	0	blue sky	
Lucknow	29.23	742.5	29.59	751.6	99.0	37.2	13	calm	1.6	0.7	.....	.....	0	.....	.....	0	0	blue sky	
Allahabad	29.28	743.6	29.58	751.3	97.8	36.6	10	calm	1.6	0.7	.....	.....	2	.....	.....	0	0	d. clouds	
Patna	29.44	747.8	29.62	752.4	94.9	34.9	15	wnw.	3.5	1.6	.....	.....	0	.....	.....	0	0	blue sky	
Hazaribagh	27.67	702.9	29.63	752.6	88.6	31.4	16	wnw.	7.6	3.4	.....	.....	0	.....	.....	0	0	blue sky	
Cuttack	29.55	750.5	29.63	752.5	95.6	35.3	33	w.	1.0	0.4	.....	.....	0	.....	.....	0	0	blue sky	
Calcutta, Alipore	29.60	751.7	29.62	752.3	93.1	33.9	32	nw.	4.0	1.8	.....	.....	2	.....	.....	0	0	d. clouds	
Dhubri	29.48	748.9	29.60	751.8	87.0	30.6	57	calm	6.0	2.7	.....	.....	0	.....	.....	0	0	blue sky	
Chittagong	29.57	751.0	29.66	753.3	82.7	28.2	69	ene.	3.0	1.3	.....	.....	0	.....	.....	0	0	blue sky	
Sibsagar	29.27	743.4	29.60	751.8	83.8	28.8	68	se	2.3	1.0	.....	.....	4	.....	.....	0	0	blue sky	
Jeypore	28.23	717.0	29.62	752.3	97.2	36.2	11	n.	5.1	2.3	.....	.....	6	sw.	sw.	0	0	d. clouds	
Zanzibar, Africa	29.93	760.2	.....	.....	84.1	28.9	71	s.	6.8	3.0	.....	.....	0	.....	.....	0	0	blue sky	
Bellary	28.21	716.5	.....	.....	95.0	35.0	21	se.	6.8	3.0	.....	.....	0	.....	.....	1.41	35.8	d. clouds	
Trichinopoly	29.43	747.5	.....	.....	92.0	33.3	47	s.	1	0.4	.....	5 ck	0	.....	.....	0	0	d. clouds	
Italian.																			
Udine	29.52	749.9	29.93	760.2	63.7	17.6	71	sw.	2.5	1.1	.....	.....	10	.....	.....	0	0	overcast	
Milan	29.35	745.6	29.87	758.6	61.7	16.5	51	se.	2.5	1.1	.....	.....	8	.....	.....	0.020	0.5	.....	Prof. Giovanni Clodig.
Padua	29.80	757.0	29.91	759.8	64.9	18.3	38	wsw.	16.1	7.2	.....	.....	7	wsw.	.....	0.043	1.1	.....	Prof. Schiaparelli.
Moncalieri	28.99	736.4	29.89	759.2	60.1	15.6	49	e.	4.3	1.9	.....	.....	4	.....	.....	0	0	.....	Prof. Dott. Lorenzoni.
Genoa	29.77	756.1	29 95	760.9	60.4	15.8	64	se.	8.7	3.9	.....	.....	6	n.	.....	0	0	.....	Prof. P. F. Denza.
Mondovi	27.98	710.6	29.94	760.4	57.4	14.1	60	nw.	.....	.....	4	.....	6	s.	.....	0	0	.....	Prof. G. M. Garibaldi.
												.....	4	ssw.	.....	0	0	.....	Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
ITALIAN.—Continued.																			
Pesaro	29.88	759.0	29.93	760.2	67.8	19.9	39	w.	10.5	4.7			4	sw.		0	0		Prof. Luigi Guidi.
Florence	29.72	755.0	29.98	761.4	63.5	17.5	44	w.			4		6	sw.		0	0		Prof. Costantino Pitter.
Leghorn	29.87	758.7	29.95	760.8	64.2	17.9	54	sw.	10.5	4.7			6			0	0		Prof. P. Monte.
Rome	29.85	758.2	30.02	762.6	65.3	18.5	53	wsw.	13.6	6.1			5			0.213	5.4		Prof. P. S. Ferrari.
Lecce	29.75	755.7	30.00	762.0	67.6	19.8	47	nne.	9.4	4.2			8			0	0		Prof. C. de Giorgi.
Cosenza	29.17	749.8	30.05	763.2	64.4	18.0	75	wsw.	4.3	1.9			9	sw.		0	0		Prof. D. Conti.
Cagliari	29.87	758.7	30.06	763.6	69.1	20.6	42	s.			4		7	nw.					Prof. A. Pacinotti.
Palermo	29.87	758.6	30.11	764.9	59.7	15.4	77	sw.	6.9	3.1			10			0.346	8.8		Prof. G. Ciacciatore.
Syracuse	30.00	761.9	30.04	763.0	62.2	16.8	76	se.	4.9	2.2			10	se.		0.157	4.0		Prof. Vincenzo Guiliano.
Sub-series.																			
Naples, S. R	29.50	749.4	30.02	762.6	63.5	17.5	68	sw.	4.9	2.2			5	ssw.		0.035	0.9		Prof. T. Brioschi.
Stelvio	21.98	558.3			32.0	0.0	73	sw.			4		10			0	0	misty	Prof. P. F. Denza.
Valdobbia	22.04	559.7			38.5	3.6	68	n.			2		10			0	0	covered	Prof. P. F. Denza.
JAPANESE.																			
Aomori	29.93	760 2	29.96	761.0	48.0	8.9	78	sw.	16.8	8.4		0	4 s			0	0	fair	K. Ogawa.
Hakodate	29.92	759.9	29.93	760.2	46.5	8.1	86	nw.	13.6	6.1			10		n.	0	0	overcast	
Hiroshima, I. M. Obs'y	29.93	760.2	29.94	760.5	57.6	14.2	70	nne.	3.1	1.4		10cksc	0			0	0	overcast	K. Sasaki.
Kanazawa	30.02	762.5	30.13	765.3	49.3	9.6	91	ese.	3.5	1.6		0	0			0	0	clear	S. Endo.
Kioto	29.91	759.7	30.09	764.3	51.2	10.7	72	ese.	2.7	1.2		0	0			0	0		M. Tojima.
Kochi	30.08	764.0	30.10	764.5	64.2	17.9	80	e.	5.4	2.4		c;cs	10 s		nw.	0	0	cloudy	
Nagasaki, I. M. Obs'y	29.87	758.7	30.08	764.0	58.1	14.5	86	s.	0.5	0.2		ck	10 s			0	0	overcast	S. Takehayashi.
Niigata	30.04	763.0	30.08	764.0	51.8	11.0	87	s.	3.9	1.7		6cs;ck	0			0	0	cloudy	
Nobiru	29.99	761.7	30.00	762.0	52.0	11.1	67	nw.	13.4	6.0		0	0			0	0	clear	H. Midzushima.
Sapporo					46.9	8.3	65	calm	0	0			2			0	0	clear	
Tokei Obs'y, Yeddo	29.98	761.5	30.05	763.3	54.6	12.6	94	s.	4.4	2.0		c	0			0	0	clear	The Staff.
Wakayama	30.03	762.7	30.08	764.0	55.6	13.1	82	ene.	0.9	0.4		7 ck	0	w.		0	0	fair	Y. Kuwamura.
MAURITIUS.																			
Mauritius Observatory	29.85	758.2	30.04	763.0	79.0	26.1	67	se.	15.0	6.7		0	3 kn		se.	0	0	fair	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.68	601.4	29.90	752.4	64.8	18.2	63	ese.					fg.			0	0	foggy	Vicente Fernandez.
Leon	24.39	619.5	30.01	762.2	62.6	17.0	67	nnw.			1		fg.			0	0	dense fog	Prof. M. Leal.
Mazatlan	29.66	753.4	29.92	760.0	66.5	19.2	76	nnw.	1.6	0.8		2 cs	0	sw.		0	0	light fog	F. Quijano, C. E.
Mexico, Central Obs'y	23.11	587.1	30.16	766.2	57.4	14.1	45	calm	0	0		0	0			0	0	foggy	The Staff.
Morelia	24.38	619.3	30.52	775.1	61.5	16.4	82	se.			3	0	0			0	0	fine	M. Tena, M. D.
Pabellon, Aguascalientes	23.97	609.0	29.95	760.8	60.8	16.0	41	ssw.			1	3 c	0	sw.		0	0	foggy	M. V. de Leon, M. E.
Puebla, Catholic Institute	23.39	594.1	29.95	760.6	64.4	18.0	90	calm	0	0		0	0			0	0	clear	Prof. P. Spina.
San Luis Potosi	24.17	614.0	30.12	765.0	59.5	15.3	42	ese.			1	2	0	w.		0	0	foggy	G. Barroeta, M. D.
Zacatecas	22.58	573.4	30.17	766.3	60.3	15.7	36	wnw.	4.2	1.9		0	5 s		w.	0	0	⅛ clouded	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.50	749.4	29.50	749.4	53.8	12.1		w.			4					0.224	5.7		
Groningen	29.37	746.1	29.43	747.5	48.7	9.3		sw.			5					0.299	7.6		
Helder	29.43	747.4	29.43	747.4	48.2	9.0		wsw.			5					0.594	15.1		
Hellevoetsluis	29.47	748.6	29.47	748.6	54.0	12.2	62	wsw.			3					0.484	12.3		
Utrecht	29.45	748.0	29.50	749.2	55 9	13.3	56	wsw.			4		5			0.228	5.8	cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.05	737.8	29.11	739.4	47.5	8.6	70	sse.	13	6			9			0.094	2.4	raining	
Brono	29.13	739.9	29.17	740.9	37.4	3.0	93	n.	18	8			10			0.047	1.2	raining	
Christiania	29.02	737.2	29.17	740.9	49.8	9.9	82	calm	0	0			10			0.083	2.1	raining	
Gjæsvær	29.31	744.5	29.34	745.1	35.8	2.1		e.			6		10						
Lodingen	29.08	738.7	29.13	739.9	34.3	1.3	71	ne.			6		10						
PORTUGUESE.																			
Angra, Azores					63.7	17.6	86	w.	4.3	1.9			2			0	0		Dr. J. A. Sampaio.
Campo Major	29.18	741.1	30.18	766.5	62.6	17.0	60	wnw.	10.5	4.7			8			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.27	768.8	30.35	771.0	66.2	19.0	64	sw.					5			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.93	760.4	30.29	769.3	59.5	15.3	63	w.	13.0	5.8			10			0.031	0.8		The Staff.
Ponta Delgada, Azores	30.40	772.1	30.47	773.9	68.0	20.0	67	wnw.	13.6	6.1			4			0	0		
Saint Paul de Loando	29.70	754.4	29.90	759.4	82.4	28.0	82	nw.	0.7	0.3			1	ene.		0	0		
Serra da Estrella	25.32	643.1	30.17	766.2	38 5	3.6	100	w.	38.5	17.2			10			0.417	10.6	foggy	
RUSSIAN.																			
Akmolinski	29.00	736.5	30.09	764.3	43.9	6.6	62	ese.	7	3		3 c	0			0	0	light clouds	Major K. Lasarew.
Archangel	29.75	755.7	29.77	756.2	44.8	7.1	73	sse.	9	4			10			0	0		Capt. Sselliwerstow.
Astrakhan	29.81	757.2	29.73	755.1	47.5	8.6	60	n.	9	4			10 s			0	0		Capt. Wisganow.
Barnaul	29.80	756.9	30.32	770.0	43.0	6.1	49	ne.	2	1			9			0	0	light clouds	Meteorological Obs'y.
Dorpat	29.33	745.0	29.57	751.0	58.6	14.8	68	s.	9	4			10 ks			0.016	0.4		Observatory.
Ekaterinburg	29.22	742.2	30.22	767.5	37.2	2.9	80	se.	4	2			10			0	0		Meteorological Obs'y.
Kasan	29.76	756.0	30.04	763.0	48.9	9.4	38	nne	9	4			0			0	0		Observatory.
Kertch	29.79	756.6	29.81	757.1	53.4	11.9	73	ne.	9	4		0	7 ks			0	0		Lagorio & Sastyrex.
Kieff	29.17	741.0	29.80	757.0	54.9	12.7	41	ese.	9	4		1 c	0			0	0		Observatory.
Lugan	29.59	751.6	29.80	756.8	50.2	10.1	63	nne.	9	4			9			0.012	0.3		Meteorological Obs'y
Moscow	29.47	748.5	29.95	760.6	50.7	10.4	65	s.	4	2		0	2 k			0	0		Meteorological Obs'y.
Nikolaiev	29.81	757.2	29.88	759.0	64.8	18.2	29	calm	0	0		0	0			c	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor	29.83	757.6	29.91	759.8	29.1	— 1.6	66	calm	0	0			0			0	0		Lieut. Iwanow.
Pekin, China	29.74	755 3	29.88	758.9	72.3	22.4	42	calm	0	0		0	5 ks			0	0		Physical Observatory
St. Petersburg	29.01	752 1	29.63	752.5	56.8	13.8	42	sse.	27	12		c;cs	3 k			0.012	0.3		Central Physical Obs'y
Semipalatinsk	29.59	751.5	30.26	768.5	49.3	9.6	42	n.	7	3			9 k			0	0	heavy cl'ds	Major Lasaren.
Tashkend, Laboratory	28.20	716.3	29.69	754.0	79.0	20.1	66	calm	0	0			10			0	0	light clouds	Teich, A. M.
Tiflis	28.35	720.2	29.76	755.8	55.9	13.3	42	nw.	4	2			10			0	0		Physical Observatory
Vladivostok	29.84	758.0	29.91	759.7	34.9	1.6	98	se.	2	1			10 n			0	0		
Warsaw	29.25	742.9	29.66	753.3	62.6	17.0	42	ssw.	11	5		0	6 k						Astronomical Obs'y
Wilna	29.21	741.9	29.61	752.2	65.8	18.8	51	s.	9	4			8			0.201	5.1		Berg, Assistant.
Yeniseisk	30.09	764.3	30.39	771.9	32.0	0.0	41	nw.	2	1			0			0.004	0.1		M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	29.84	757.9	29.95	760.6	65.1	18.4	66	sw.	4.0	1.8		2 c;ck	0			0	0		Antonio Rave, Director.
Bilbao, Met. Obs'y	29.84	757.8	29.89	759.3	68.0	20.0	49	w.	2.7	1.2			10			0.008	0.2	covered	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.04	686.8	29.98	761.4	58.5	14.7	51	sw.	6.3	2.8			9			0.051	1.3	almost cov'd	Domingo Martin.
Madrid, Royal Obs'y	27.84	707.1	30.02	762 6	66.6	19.2	45	sw.	18.6	8.3		5	0		nw.	0	0	light clouds	The Staff.
Murcia, Met. Obs'y	29.89	759.3	30.04	763.0	77.7	25.4	43	e.	5.1	2.3		4	4		se.	0	0	cloudy	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.06	738.0	29.97	761.1	52.3	11.3	95	sw.	23.7	10.6			10			0.181	4.6	raining	R. Gil Vallanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I	29.97	761.3	30.04	762.9	77.0	25.0	80	sw.	3.1	1.4		c;ck	7 k	w.	nw.	0	0	fair	Benito Vines, S. J.
Manilla, Philippine Islands	29.84	757.9	29.86	758.4	84.2	29.0	68	se.	7.7	3.4		0	k			0	0	clear	F. Faura, S. J.
San Fernando, Naval Obs'y	30.14	765.5	30.24	768.0	64.6	18.1	63	wnw.	5.2	2.3		3	3	w.	w.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	29.95	760.6	30.04	762.9	77.4	25.2	80	calm	0	0		6 cs	6 k	c.	s.	0	0	d. clouds	Manuel Maeu.
Tuguegarao, Philippine Id's	29.80	756.9	29.93	760.2	78.5	25.8	83	nw.	4.3	1.9		0	4 ks		sw.	inap.	inap.	cloudy	José L. Yrastorza.
SWEDISH																			
Haparanda	29.22	742.3	29.26	743.3	30.0	2.2	100	s.			2		10			0.268	6.8		
Umea	29.25	743.0	29.30	744.3	42.8	6.0	94	sw.			2		10			0	0		
Hernosand	29.24	742.7	29.29	744.0	45.5	7.5	82	s.			2		7			0.307	7.8		
Stockholm	29.21	741.8	29.38	746.3	54.0	12.2	70	s.			6		5			0.063	1.6		
Wisby	29.37	746.0	29.43	747.5	57.9	14.4	61	wsw.			4		3			0.110	2.8		
Sub-series.																			
Upsala	29.23	742.5	29.32	744.7	54.9	12.7	67	s.	16.8	7.5			10		ssw.	0.035	0.9		S. G. Fineman.
SWISS.																			
Geneva	28.45	722.7	29.86	758.5	58.6	14.8	43	sw.			7					0	0	covered	The Observatory

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather	Observers.
Turkish.																			
Constantinople	.....	.....	29.88	758.9	64.4	18.0	51	sw.	8	3.5	.....	.....	0	.....	.....	0	0	.....	The Observatory.
Valona	.....	.....	30.10	764.4	65.8	18.8	.....	w.	.....	.....	1	.....	2	.....	.....	0	0	slightly cl'dy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	29.97	761.1	73.0	22.8	68	wsw	.....	.....	1	0	3 k	.....	sw.	0.01	0.3	.....	Prof. C. V. A. van Dyck.
United States.																			
Albany, New York	30.21	767.3	30.29	769.4	43.5	6.4	34	n.	3	1.3	.....	0	c	.....	.....	0	0	clear	J. O. Barnes.
Alpena, Michigan	29.68	753.9	30.37	771.4	33	0.6	68	n.	3	1.3	.....	0	0	.....	.....	0	0	clear	Jas. J. Fitzgerald.
Atlanta, Georgia	29.01	736.8	30.20	767.1	52.5	11.4	80	e.	5	2.2	.....	1 k	0	calm	.....	0	0	clear	H. Hall.
Atlantic City, New Jersey	30.25	768.3	30.26	768.6	43.5	6.4	63	n.	7	3.1	.....	0	0	.....	.....	0	0	clear	Jas. M. Watson.
Augusta, Georgia	30.04	763.0	30.23	767.8	52.5	11.4	90	calm	0	0	.....	0	hz.	.....	.....	0	0	clear	John Healy.
Baltimore, Maryland	30.28	769.1	30.33	770.4	43	6.1	43	ne.	6	2.7	.....	0	hz.	.....	.....	0	0	clear	Robert Seybolt.
Barnegat, New Jersey	30.26	768.6	30.28	769.1	41.7	5.4	69	n.	11	4.9	.....	0	0	.....	.....	0	0	clear	Chas. F. Merritt.
Bismarck, Dakota	28.08	713.2	29.95	760.7	43	6.1	93	se.	10	4.5	.....	.....	10 n	.....	se.	0.37	9.4	light rain	Cyrus Cramer.
Boise City, Idaho	27.36	694.9	30.20	767.1	32	0.0	81	nw.	1	0.4	.....	0	2 s	.....	w.	0	0	clear	E. E. Light.
Boston, Massachusetts	30.08	764.0	30.24	768.1	37.0	2.8	81	nw.	8	3.6	.....	0	0	.....	.....	0	0	clear	O. B. Cole.
Brownsville, Texas	29.87	758.7	29.92	760.0	77	25.0	85	se.	8	3.6	.....	.....	10 s	.....	se.	0	0	cloudy	J. C. Galloway.
Buffalo, New York	29.56	750.8	30.33	770.4	34.6	1.4	73	calm	0	0	.....	0	0	.....	.....	0	0	clear	Wm. Finn.
Burlington, Vermont	29.96	761.0	30.26	768.6	34.0	1.1	65	n.	1	0.4	.....	0	0	.....	.....	0	0	clear	G. G. Schaeffer.
Cairo, Illinois	29.70	754.4	30.11	764 8	53.6	12.0	75	se.	4	1.8	.....	8 ck	0	nw.	.....	0	0	cloudy	W. H. Ray.
Campo, California	27.47	697.7	30.05	763.3	33	0.6	81	w.	2	0.9	.....	0	0	.....	.....	0	0	clear	W. H. Clendenon.
Camp Thomas, Arizona	27.20	690.9	29.93	760.2	46	7.8	49	calm	.....	.....	0	0	0	.....	.....	0	0	clear	J. T. Fitzgerald.
Cape Henry, Virginia	30.29	769.4	30.31	769.9	47	8.3	68	nw.	9	4.0	.....	0	0	.....	.....	0	0	clear	J. E. Lanouette.
Cape May, New Jersey	30.25	768.3	30.28	769.1	45	7.2	60	ne.	10	4.5	.....	0	0	.....	.....	0	0	clear	W. Bolten.
Cedar Keys, Florida	30.10	764.5	30.12	765.0	62	16.7	78	ne.	10	4.5	.....	6 ck	0	.....	.....	0	0	fair	F. W. Mixer.
Champaign, Illinois	29.31	744.5	30.15	765.8	44.2	6.8	68	e.	8	3.6	.....	0	0	.....	.....	0	0	clear	L. A. Welsh.
Charleston, S. Carolina	30.14	765.5	30.20	767.1	59	15.0	75	ne.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.36	745.7	30.22	767.6	48.0	8.9	77	e.	5	2.2	.....	0	fg.	.....	.....	0	0	clear	D. O. Donoghue.
Chattanooga, Tennessee	29.36	745.7	30.19	766.8	56.0	13.3	86	s.	6	2.7	.....	4 ck	5 ks	sw.	sw.	0	0	cloudy	B. L. Goulding.
Cheyenne, Wyoming	23.75	603.2	29.75	755.6	34.5	1.4	70	nw.	4	1.8	.....	0	0	.....	.....	0	0	clear	E. McGovern.
Chicago, Illinois	29.49	749.0	30.22	767.6	44.5	6.9	57	se.	11	4.9	.....	8 ck	0	w.	.....	0	0	cloudy	J. Mitchell.
Chincoteague, Virginia	30.26	768.6	30.28	769.1	42	5.6	65	n.	11	4.9	.....	0	0	.....	.....	0	0	clear	V. P. Temple.
Cincinnati, Ohio	29.54	750.3	30.21	767.3	44.8	7.1	56	n.	4	1.8	.....	0	0	.....	.....	0	0	clear	R. B. Watkins.
Cleveland, Ohio	29.53	750.0	30.29	769.4	35.5	1.9	52	ne.	7	3.1	.....	0	0	.....	.....	0	0	clear	J. B. Newlin.
Coleman City, Texas	28.12	714.2	29.94	760.5	55	12.8	80	se.	1	0.4	.....	6 c	0	.....	.....	0	0	fair	L. Dorman.
Columbus, Ohio	29.36	745.7	30.23	767.8	40	4.4	48	ne.	3	1.3	.....	0	0	.....	.....	0	0	clear	D. Cuthbertson.
Concho, Texas	27.96	710.2	29.90	759.4	60	15.6	84	sw.	2	0.9	.....	6 c	0	.....	.....	0	0	fair	W. W. McConihe.
Davenport, Iowa	29.45	748.0	30.12	765.0	47	8.3	63	e.	8	3.6	.....	10 k	0	s.	.....	0	0	cloudy	R. R. Martin.
Dayton, Washington T'y	28.28	718.3	30.02	762.5	36.8	2.7	73	sw.	4	1.8	.....	.....	10 s	.....	sw.	0.02	0.5	cloudy	H. Clifford.
Deadwood, Dakota	25.12	638.0	29.81	757.2	40	4.4	86	calm	0	0	.....	3 c	0	w.	.....	0.12	3.0	clear	G. W. Scott.
Decatur, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	D. J. Carr.
Delaware Breakwater, Del.	30.26	768.6	30.28	769.1	43	6.1	83	ne.	22	9.8	.....	1 k	0	.....	.....	0	0	clear	A. Schneider.
Denison, Texas	29.09	738.9	29.89	759.2	62.0	16.7	78	s.	13	5.8	.....	10 ck	0	s.	.....	0	0	cloudy	J. McGlone.
Denver, Colorado	24.54	623.3	29.81	757.2	42.5	5.8	59	s.	5	2.2	.....	0	0	.....	.....	0	0	clear	F. M. Neal.
Des Moines, Iowa	29.12	739.6	30.05	763.3	45	7.2	76	e.	8	3.6	.....	0	5 s	.....	s.	0	0	fair	F. W. Conrad.
Detroit, Michigan	29.58	751.3	30.31	769.9	38.1	3.4	62	n.	6	2.7	.....	0	0	.....	.....	0	0	clear	C. F. R. Wappenhans.
Dodge City, Kansas	27.13	689.1	29.77	756.1	50	10.0	74	s.	4	1.8	.....	0	0	.....	.....	0	0	clear	E. A. Thomas.
Dubuque, Iowa	29.42	747.3	30.15	765.8	41	5.0	67	e.	5	2.2	.....	8 c	1 s	ne.	calm	0	0	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.55	750.6	30.27	768.8	37	2.8	72	ne.	16	7.2	.....	.....	10 s	.....	ne.	0	0	cloudy	N. B. Conger.
Eagle Pass, Texas	29.11	739.4	29.92	760.0	73.1	22.8	76	se.	6	2.7	.....	.....	10 s	.....	se.	0	0	cloudy	F. Belford.
Eagle Rock, Idaho	25.20	640.1	29.92	760.0	30	— 1.1	80	sw.	19	8.5	.....	.....	10 s	.....	nw.	0.09	2.3	cloudy	J. M. Clifford.
Eastport, Maine	30.04	763.0	30.11	764.8	34	1.1	66	nw.	13	5.8	.....	0	0	.....	.....	0.02	0.5	clear	J. H. Melton.
El Paso, Texas	26.22	666.0	29.96	761.0	55	12.8	26	nw.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.57	751.1	30.32	770.1	39	3.9	65	calm	0	0	.....	0	0	.....	.....	0	0	clear	R. H. Paxton.
Escanaba, Michigan	29.64	752.8	30.33	770.4	33	0.6	68	n.	6	2.7	.....	5 cs	0	.....	.....	0	0	fair	C. Dill.
Florence, Arizona	28.44	722.4	29.94	760.5	47.5	8.6	41	n.	3	1.3	.....	0	0	.....	.....	0	0	clear	R. R. Herman.
Fort Apache, Arizona	25.06	636.5	29.98	761.5	31	— 0.6	62	e.	5	2.2	.....	0	0	.....	.....	0	0	clear	W. O. Barnes.
Fort Assinnaboine, Montana	26.91	683.5	29.81	757.2	37	2.8	82	s.	4	1.8	.....	.....	10 n	.....	.....	0.13	3.3	light rain	B. C. Lenoir.
Fort Bennett, Dakota	28.28	718.3	29.92	760.0	44	6.7	93	se.	10	4.5	.....	5 k	4 s	sw.	.....	0.01	0.3	cloudy	T. Gibson.
Fort Benton, Montana	26.99	685.5	29.85	758.2	32	0.0	100	w.	26	11.6	.....	.....	10 n	.....	w.	0.06	1.5	heavy snow	S. Wheaton.
Fort Buford, Dakota	27.76	705.1	29.83	757.7	39	3.9	100	se.	11	4.9	.....	.....	10 n	.....	calm	0.07	1.8	light rain	A. H. Bell.
Fort Custer, Montana	26.58	675.1	29.76	755.9	40	4.4	82	sw.	8	3.6	.....	.....	10 s	.....	calm	0	0	cloudy	V. Verge.
Fort Davis, Texas	25.10	637.5	29.89	759.2	54	12.2	19	sw.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. Williams.
Fort Elliott, Texas	27.04	686.8	29.82	757.4	41	5.0	67	calm	0	0	.....	0	0	.....	.....	0	0	clear	W. J. Cundall.
Fort Gibson, Indian T'y	29.32	744 7	29.90	759.4	64.5	18.1	73	se.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. B. Campbell.
Fort Grant, Arizona	25.22	640.6	29.95	760.7	50	10.0	28	e.	7	3.1	.....	0	0	.....	.....	d	0	clear	T. J. Macgowan.
Fort Keogh, Montana	27.19	690.6	29.73	755.1	46	7.8	86	se.	6	2.7	.....	9 cs	0	se.	.....	0.08	2.0	cloudy	W. B. Stockman.
Fort Macon, North Carolina	30.24	768.1	30.25	768.3	51	10.6	59	n.	14	6.3	.....	hz.	0	calm	.....	0	0	clear	L. Leonardy.
Fort McKavett, Texas	27.70	703.6	29.96	761.0	63	17.2	78	se.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. E. Thatcher.
Fort Missoula, Montana	26.63	676.4	29.94	760.5	32	0.0	81	sw.	2	0.9	.....	.....	10 s	.....	sw.	0	0	cloudy	J. H. Jones.
Fort St. Michaels, Alaska	29.93	760.2	29.96	761.0	24	— 4.4	87	se.	3	1.3	.....	0	0	.....	.....	0	0	clear	A. P. Leavitt.
Fort Shaw, Montana	26.18	665.0	29.85	758.2	34	1.1	71	w.	5	2.2	.....	0	8 s	.....	.....	inap.	inap.	cloudy	A. L. Mathews.
Fort Sill, Indian Territory	28.59	726.2	29.83	757.7	58	14.4	72	s.	8	3.6	.....	4 ck	0	sw.	.....	0	0	fair	T. Cleary.
Fort Stevenson, Dakota	28.01	711.4	29.91	759.7	42	5.6	92	se.	6	2.7	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	W. Burrows
Fort Verde, Arizona	.....	.....	.....	.....	41.3	5.2	43	sw.	.....	.....	1	0	0	.....	.....	0	0	clear	D. Brooks.
Fort Washakie, Wyoming	24.30	617.2	.....	.....	33.1	0.6	65	sw.	7	3.1	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	T. M. Ambler.
Fredericksburg, Texas	28.19	716.0	29.91	759.7	62	16.7	93	calm	0	0	.....	10 k	0	sw.	.....	0	0	cloudy	H. S. Miles.
Galveston, Texas	29.96	761.0	30.00	762.0	73	22.8	81	s.	16	7.2	.....	10 ck	0	nw.	.....	0	0	cloudy	E. O'C. MacInernev.
Grand Haven, Michigan	29.60	751.8	30.30	769.6	35.5	1.9	66	e.	8	3.6	.....	2 ck	3 s	w.	.....	0	0	fair	W. A. Reid.
Hatteras, North Carolina	30.26	768.6	30.28	769.1	49	9.4	63	ne.	15	6.7	.....	hz.	0	.....	.....	0	0	clear	R. M. Crawford.
Helena, Montana	25.62	650.7	29.88	758.9	35	1.7	56	nw.	16	7.2	.....	10 k	0	nw.	.....	0.02	0.5	cloudy	N. C. Smith.
Henrietta, Texas	28.89	733.8	29.92	760.0	65.0	18.3	84	s.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. W. Byram.
Huron, Dakota	28.58	725.9	30.03	762.7	46	7.8	86	se.	6	2.7	.....	.....	10 s	.....	.....	0	0	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.36	745.7	30.18	766.6	41.5	5.3	66	e.	2	0.9	.....	2 c	3 s	calm	calm	0	0	fair	O. Schutze
Indianola, Texas	29.93	760.2	29.96	761.0	73.5	23.1	84	se.	7	3.1	.....	7 cs	3 ks	w.	s.	0	0	cloudy	I. A. Reed.
Jacksboro, Texas	28.72	729.5	29.90	759.4	63	17.2	73	sw.	5	2.2	.....	0	0	.....	.....	0	0	clear	J. P. Sherry.
Jacksonville, Florida	30.09	764.3	30.13	765.3	59	15.0	81	ne.	5	2.2	.....	5 cs	0	w.	.....	0	0	fair	J. W. Smith.
Keokuk, Iowa	29.40	746.7	30.07	763.8	47.0	8.3	86	e.	7	3.1	.....	6 k	0	sw.	.....	0	0	fair	F. Z. Gosewisch
Key West, Florida	30.02	762.5	30.04	763.0	78.0	25.6	64	n.	12	5.4	.....	0	0	.....	.....	0	0	clear	L. M. Melbourne.
Kittyhawk, North Carolina	30.28	769.1	30.30	769.6	47	8.3	63	e.	4	1.8	.....	2 c	0	.....	.....	0	0	clear	E. A. Beals.
Knoxville, Tennessee	29.13	739.9	30.17	766.3	54.3	12.4	90	calm	0	0	.....	.....	10 s	.....	w.	0	0	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.37	746.0	30.17	766.3	47	8.3	42	e	4	1.8	.....	0	0	.....	.....	0	0	clear	S. C. Emery.
La Mesilla, New Mexico	26.10	662.9	29.98	761.5	44.0	6.7	41	ca'm	0	0	.....	0	0	.....	.....	0	0	clear	N. D. Lane.
Leavenworth, Kansas	29.00	736.6	29.91	759.7	52	11.1	80	se.	3	1.3	.....	0	0	.....	.....	0	0	clear	A. W. Browne.
Lewiston, Idaho	29.20	741.7	30.05	763.3	39.2	4.0	78	e.	3	1.3	.....	.....	10 s	.....	.....	0.02	0.5	cloudy	W. Blake.
Little Rock, Arkansas	29.70	754.4	30.02	762.5	58	14.4	87	se.	2	0.9	.....	2 c	0	calm	.....	0	0	clear	W. U. Simmons.
Los Angeles, California	29.73	755.1	30.13	765.3	45.0	7.2	83	w.	5	2.2	.....	0	0	.....	.....	0	0	clear	E. F. Kubel.
Louisville, Kentucky	29.56	750.8	30.13	765.3	49	9.4	56	ne.	6	2.7	.....	.....	10 s	.....	.....	0	0	cloudy	H. C. Smyth.
Lynchburg, Virginia	29.60	751.8	30.31	769.9	44.0	6.7	76	calm	0	0	.....	8 ck	fg	w.	.....	0	0	cloudy	W. R. Bushby.
Madison, Wisconsin	29.18	741.2	30.22	767.6	40	4.4	73	e.	8	3.6	.....	4 cs	0	w.	.....	0	0	fair	C. A. Shaw.
Marquette, Michigan	29.62	752.3	30.37	771.4	35	1.7	69	nw.	2	0.9	.....	8 c	0	nw.	.....	0	0	cloudy	J. Gilligan.
Mason, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	P. M. Wilson.
Memphis, Tennessee	29.72	754.8	30.06	763.5	61	16.1	78	se.	4	1.8	.....	0	0	.....	.....	0	0	clear	D. T. Flannery.
Milwaukee, Wisconsin	29.49	749.0	30.26	768.6	41	5.0	82	e.	9	4.0	.....	10 ck	0	ne.	.....	0	0	cloudy	W. Line.
Mobile, Alabama	30.06	763.5	30.10	764.5	64	17.8	84	ne.	1	0.4	.....	3 ck	0	nw.	.....	0	0	clear	J. D. Paxton.

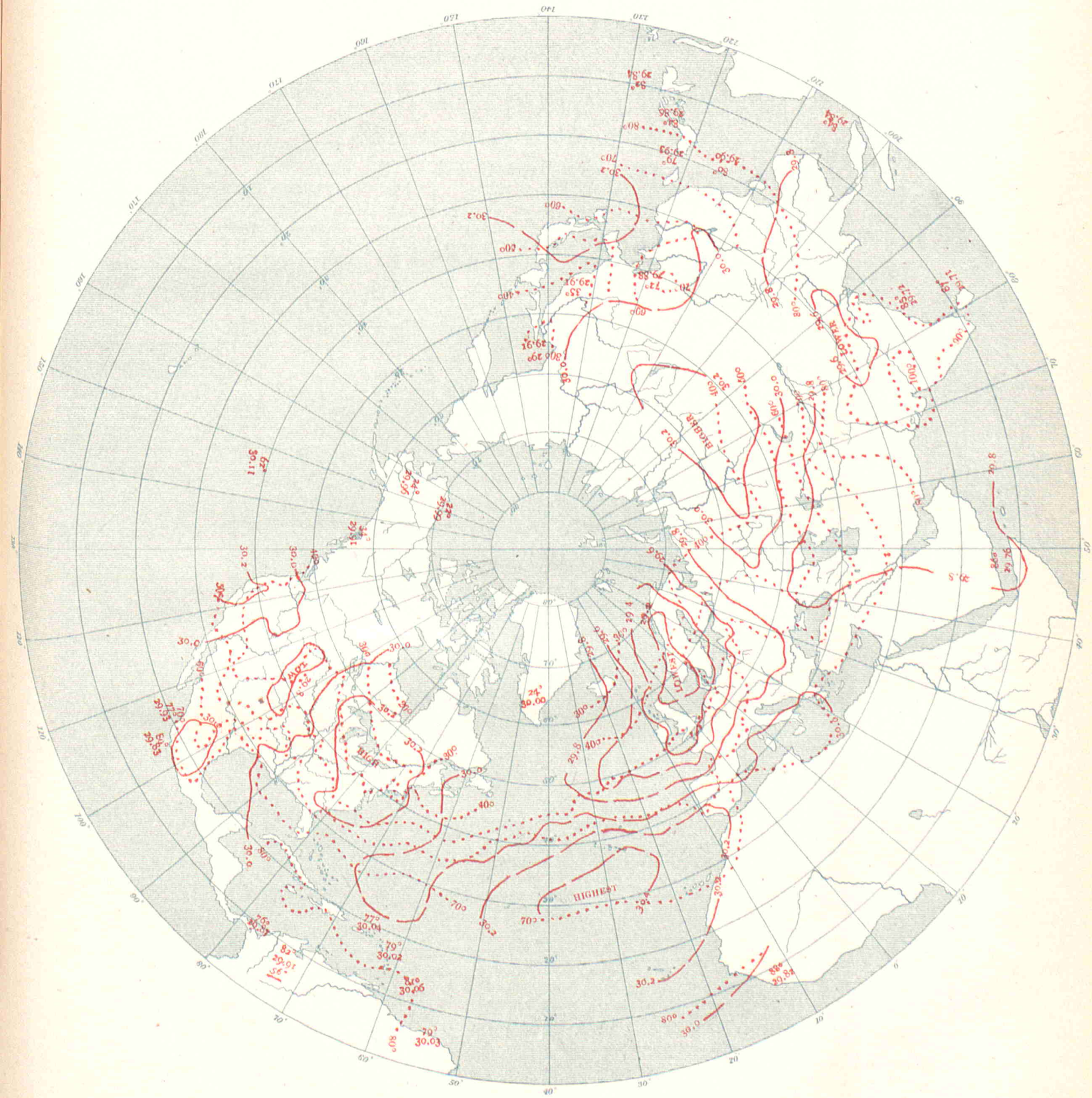
STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Montgomery, Alabama	29.91	759.7	30.14	765.5	58.4	14.7	86	e.	3	1.3		1 c	0			0	0	clear	J. B. McLaughlin.
Moorhead, Minnesota	29.05	737.9	30.08	764.0	41.1	5.1	73	se.	18	8.0			10 s		se.	0	0	cloudy	H. Bessant.
Morgantown, W. Virginia	29.11	739.4	30.15	765.8	40.5	4.7	68	ne.	1	0.4		0	0			0	0	clear	G. C. Lewis.
Mt. Washington, N. H.	23.68	601.5	30.09	764.3	11.0	—11.7	70	nw.	46	20.6		0	0			0.20	5.1	clear	J. G. Linsley.
Nashville, Tennessee	29.58	751.3	30.12	765.0	54.0	12.2	80	ne.	1	0.4		6 cs	hz.	w.		0	0	fair	L. A. Jesunofsky.
New Haven, Connecticut	30.16	766.1	30.28	769.1	37	2.8	49	n.	6	2.7		0	0			0	0	clear	J. H. Sherman.
New London, Connecticut	30.23	767.8	30.28	769.1	40	4.4	57	n.	5	2.2		0	0			0	0	clear	J. G. Lynch.
New Orleans, Louisiana	30.00	762.0	30.06	763.5	66.5	19.2	77	se.	1	0.4		8 c	sk.	nw.		c	0	cloudy	S. Dunne.
Newport, Rhode Island	30.20	767.1	30.25	768.3	40.0	4.4	59	nw	4	1.8		1 cs	0	calm		0	0	clear	W. McGillivray.
New River, N. Carolina					49	9.4	63	ne.			2	0	0			0	0	clear	C. C. Corbin.
New Shoreham, Rhode I'd.	30.22	767.6	30.25	768.3	39.2	4.0	54	n.	12	5.4		0	0			0	0	clear	W. Davis.
New York, New York	30.12	765.0	30.30	769.6	42	5.6	50	n.	6	2.7		0	0			0	0	clear	E. B. Garriott.
Norfolk, Virginia	30.27	768.8	30.30	769.6	51	10.6	72	n.	7	3.1		0	0			0	0	clear	J. T. Elker.
North Platte, Nebraska	26.93	684.0	29.89	759.2	46.6	8.1	90	se.	8	3.6			fg.			0	0	dense fog	E. F. Brady.
Olympia, Washington T'y	29.98	761.5	30.02	762.5	38.5	3.6	86	s.	8	3.6		5 k	0	w.		0.46	11.7	fair	J. Dascomb.
Omaha, Nebraska	28.79	731.3	30.00	762.0	47.5	8.6	81	se.	4	1.8		2 ck	0			0	0	clear	A. Pollak.
Ooglaamie, Pt. Barrow, Alas.	29.97	761.2	29.99	761.7	22.0	— 5.6	100	sse.	5	2.2			10 s			0.21	5.3	cloudy	P. H. Ray.
Oswego, New York	29.97	761.2	30.31	769.9	36.5	2.5	50	ne.	12	5 4		0	0			0	0	clear	S. W. Beall.
Palestine, Texas	29.46	748.3	30.02	762.5	63.5	17.5	90	s.	10	4.5		10 ck	0	s.		0	0	cloudy	L. M. Pindell.
Pensacola, Florida	30.07	763.8	30.10	764.5	67.0	19.4	87	e.	10	4.5		7c;cs	0	w.		0	0	fair	M. McGauran.
Philadelphia, Pa	30.21	767.3	30.31	769.9	43	6.1	51	ne.	6	2.7		0	0			0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	17.59	446.8	29.87	758.7	14.5	— 9.7	81	sw.	54	24.1		0	hz.			0	0	clear	L. M. Dey.
Pioche, Nevada	23.96	608.6	29.94	760.5	37	2.8	39	s.	8	3.6		0	0			0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.42	747.3	30.25	768.3	39.5	4.2	52	ne.	4	1.8		0	0			0	0	clear	J. H. Bryce.
Port Eads, Louisiana	30.07	763.8	30.08	764.0	66.0	18.9	92	e.	4	1.8		3 ck	0	w.		0	0	clear	H. G. Christian.
Port Huron, Michigan	29.60	751.8	30.30	769.6	36.6	2.6	72	e.	2	0.9		4 c	0			0	0	fair	W. O. Bailey.
Portland, Maine	30.13	765 3	30.18	766.6	42.0	5.6	42	nw.	7	3.1		0	0			0	0	clear	D. C. Murphy.
Portland, Oregon	30.02	762.5	30.09	764.3	40.0	4.4	82	s.	12	5.4			10 s		s.	0.56	14.2	cloudy	M. L. Hearne.
Portsmouth, N. Carolina					50	10.0	64	ne.	20	8.9		0	1 k		ne.	0	0	clear	F. P. Chaffee.
Prescott, Arizona	24.73	628.1	29.95	760.7	45	7.2	32	s.	4	1.8		0	0			0	0	clear	J. Mc N. Wright.
Provincetown, Mass	30.18	766.6	30.21	767.3	39.5	4.2	73	n.	12	5.4		0	0			0	0	clear	P. T. Jenkins.
Punta Rassa, Florida	30.03	762.7	30.04	763.0	70	21.1	76	ne.	15	6.7		0	hz.			0	0	clear	W. J. Evans.
Red Bluff, California	29.86	758.4	30.24	768.1	37.1	2.8	89	calm	0	0		0	0			0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.55	750.6	29.79	756.7	73	22.8	84	se.	6	2.7			10 s		calm	0	0	cloudy	W. H. Taylor.
Rochester, New York	29.63	752.6	30.32	770.1	36	2.2	61	n.	1	0.4		0	sk.			0	0	clear	A. T. Sherwood.
Roseburg, Oregon	29.62	752.3	30.18	766.6	38	3.3	82	s.	2	0.9		0	9 n		sw.	0.31	7.9	light rain	J. J. Nanry.
Sacramento, California	30.16	766.1	30.24	768.1	41.8	5.4	92	se.	2	0.9		0	0			0.18	4.6	clear	J. A. Barwick.
St. Louis, Missouri	29.48	748.8	30.09	764.3	50.0	10.0	93	se.	8	3.6			10 s		se.	0	0	cloudy	J. H. Webber.
St. Paul, Minnesota	29.25	742.9	30.14	765.5	42.0	5.6	65	e.	10	4.5		2 c	0	w.		0	0	clear	P. F. Lyons.
St. Vincent, Minnesota	29.18	741.2	30.09	764.3	39	3.9	82	se.	20	8.9			10 s		se.	inap.	inap.	cloudy	G. Kingsbury.
Salt Lake City, Utah	25.62	650.7	29.99	761.7	38	3.3	56	calm	0	0		10 k	0	w.		0	0	cloudy	J. Craig.
San Antonio, Texas	29.23	742.4	29.93	760.2	70.5	21.4	84	e.	2	0.9			10 s		e.	0	0	cloudy	E. Lane.
San Diego, California	30.04	763 0	30.11	764.8	47.6	8.7	91	ne.	6	2.7		0	0			0	0	clear	A. C. Dobbins.
Sandusky, Ohio	29.58	751.3	30.28	769.1	42	5.6	65	e.	14	6.3		2 c	0	w.		0	0	clear	M. H. Perry.
Sandy Hook, New Jersey	30.27	768.8	30.31	769.9	41.0	5.0	73	n.	11	4.9		0	0			0	0	clear	B. A. Blundon.
San Francisco, California	30.19	766.8	30.26	768.6	46	7.8	83	n.	8	3.6		0	0			0.06	1.5	clear	N. Gorom.
Santa Fé, New Mexico	23.20	589.3	29.96	761.0	43	6.1	22	calm	0	0		0	0			0	0	clear	H. U. Jones.
Savannah, Georgia	30.11	764.8	30.20	767.1	61	16.1	75	n.	3	1.3		0	0			0	0	clear	H. W. Ford.
Shreveport, Louisiana	29.78	756.4	30.02	762.5	62	16.7	93	s.	5	2.2		2 c	7 ks	s.	s.	0	0	cloudy	E. N. Meekins.
Silver City, New Mexico	24.27	616.4	29.95	760.7	40	4.4	40	w.	4	1.8		0	0			0	0	clear	J. B. Wallace.
Sitka, Alaska	29.85	758.2	29.91	759.7	33.5	0.8	48	ne.	6	2.7		0	0			0	0	clear	J. J. McLean.
Smithville, North Carolina	30.21	767.3	30.25	768.3	55	12.8	62	e.	8	3.6		4 k	0	ne.		0	0	fair	O. Parker.
Spokane Falls, Wash. Ter.	27.93	709.4	29.99	761.7	34	1.1	92	s.	8	3.6		10 k	0	s.		0.08	2.0	cloudy	D. Moore.
Springfield, Illinois	29.42	747.3	30.12	765.0	50	10.0	71	se.	9	4.0		0	7 s		w.	0	0	fair	T. B. Jennings.
Springfield, Massachusetts	30.15	765 8	30.28	769.1	39.0	3.9	65	s.	1	0.4		0	hz.			0	0	clear	T. S. Outram.
Springfield, Mo	28.53	724.6	30.05	763.3	55	12.8	80	se.	9	4.0		0	0			0	0	clear	J. B. Marbury.
Stockton, Texas	26.89	683.0	29.92	760.0	53.5	11.9	69	s.	6	2.7		0	1 s		calm	0	0	clear	J. O'Dowd.
Thatcher's Island, Mass	30.13	765.3	30.18	766.6	40.0	4.4	65	n.	11	4.9		0	0			0	0	clear	G. Liebmann.
Toledo, Ohio	29.55	750.6	30.26	768.6	36	2.2	79	n.	6	2.7		6 c	0	nw.		0	0	fair	A. Buell.
Tucson, Arizona	27.55	699.8	29.94	760.5	52	11.1	55	se.	5	2.2		0	0			0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.75	755.6	30.12	765.0	39.7	4.3	65	sw.	11	4.9		6 cs	3 s			0	0	cloudy	J. Daly.
Uvalde, Texas	28.95	735.3	29.92	760.0	70	21.1	76	calm	0	0			10 ks		sw.	0	0	cloudy	E. C. Imlay.
Vicksburg, Mississippi	29.82	757.4	30.08	764.0	64	17.8	78	se.	1	0.4		8 ck	hz.	calm		0	0	cloudy	T. J. Kenan.
Visalia, California																			J. T. Cochran.
Washington, D. C.	30.22	767.6	30.34	770.6	40.0	4.4	59	ne.	6	2.7		0	0			0	0	clear	B. M. Purssell.
West Las Animas, Colorado	25.82	655 8	29.78	756.4	38	3.3	65	w.	7	3.1		0	0			0	0	clear	J. Grover.
Wickenburg, Arizona					42	5.6	60	calm			0	0	0			0	0	clear	H. A. Kremp.
Williamsport, Pa	29.72	754.9	30.33	770.4	33	0.6	68	nw.	4	1.8		0	hz.			0	0	clear	B. F. Hough.
Wilmington, N. Carolina	30.18	766.6	30.24	768.1	52	11.1	72	e.	6	2.7		0	0			0	0	clear	E. W. McHann.
Winnemucca, Nevada	25.65	651.5	30.05	763.3	31	— 0.6	80	sw.	8	3.6			10 ks		sw.	0.02	0.5	cloudy	J. R. Williams.
Yankton, Dakota	28.66	728.0	30.00	762.0	45	7.2	76	e.	5	2.2			10 s			0	0	cloudy	J. H. Atfield.
Yuma, Arizona	29.77	756.1	29.92	760.0	58.0	14.4	52	w.	5	2.2		0	0			0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.04	559.8			56.0	13.3	77	sw.	3.0	1.3		2 k	8 ns	w.	nw.	0	0	cloudy	Joaquin Gomez.
Bridgetown, Barbados, W.I.	30.05	763.3	30.06	763.5	81	27.2	82	e.				5 k	5 ks	e.	e.	0	0	fair	J. A. Racker.
Buenaventura, U. S. C.																			J. I. Plume.
Guadeloupe, W. I.	29.90	759.4	29.92	760.0	79	26.1	83	se.				1 k	0			0	0	clear	B. Bigar.
Havana, Cuba, W. I.	30.02	762.5	30.07	763.8	81	27.2	74	calm	0	0		0	8 ks		calm	0	0	cloudy	A. Van Caneghem.
Kingston, Jamaica, W. I.	30.03	762.7	30.04	763.0	76.2	24.6	73	calm	0	0		0	0			0	0		Robert Johnston.
Navassa, W. I.																			F. M. Everett.
Paramaribo, S. A.	30.03	762.7	30.03	762.7	79	26.1	87	e.			3	4 c	5 k	e.	e.	0	0	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.45	748.0	29.91	759.7	82	27.8	80	calm			0		10 s		calm	0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.							92	ne.			1	5 cs	0	e.		0	0	fair	Earl Flint.
Santiago de Cuba, W. I.	29.96	761.0	29.99	761.7	80	26.7	74	calm	0	0		2 cs	3 ks			0	0	fair	Robert Mason.
York Factory, B. A.	29.95	760.7	30.01	762.2	18.0	— 7.8	92	se.	10	4.5		2 c	1 s	se.	se.	0	0	fair	W. Wood.

STATIONS AND VESSELS.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
BRITISH NAVAL.																		
H. M. S. Alert, Providence Island, Madagascar	29.89	759.2	83.2	28.4	76	ese.			3-5		4							showery.
H. M. S. Alexandra, Malta, Mediterranean	30.13	765.3	64	17.8	73	nnw.			3		7	wsw.						d. clouds.
H. M. S. Amethyst, N. 46° 47′, W. 5° 39′	29.41	747.0	55	12.8	87	wsw.			8		9	wnw.				6	wnw.	raining.
H. M. S. Bacchante, Beirut Bay, Palestine	29.95	760.7	66	18.9	84	ssw.			2		3	sw.				1	sw.	d. clouds.
H. M. S. Champion, S. 24° 10′ W. 76° 45′			65	18.3	78	ese.			4		9	calm				4	s.	d. clouds.
H. M. S. Cleopatra, N. 8° 09′ E. 83° 27′			86.5	30.3	91	s.			1		1	calm				3	se.	d. clouds.
H. M. S. Comus, N. 7° 45′ E. 129° 35′	29.71	754.6	82	27.8	100	ene.			3-4		4	ne.				3	ne.	showery.
H. M. S. Dido, N. 18° 20′, W. 65° 00′	29.84	757.9	77	25.0		e.			1-2		10	ne.						hy. showers
H. M. S. Dryad, N. 25° 47′ E. 52° 37′	30.10	764.5				nw.			1		6	nw.				1	nw.	d. clouds.
H. M. S. Dwarf, S. 32° 18′, W. 58° 25′	29.65	753.1	60	15.6	82	calm			0		0							blue sky.
H. M. S. Espiegle, S. 35° 50′ E. 150° 55′	30.13	765.3	63	17.2	94	nw.			5		5	nw.				3	nnw.	d. clouds.
H. M. S. Gannet, S. 29° 56′, W. 71° 20′	29.79	756.7	53.5	11.4	83	calm			0		10							foggy.
H. M. S. Garnet, Colonia, Uruguay	30.03	762.7	61	16.1	82	calm			0		7							d. clouds.
H. M. S. Inconstant, Simon's Bay, Cape Colony	30.19	766.8	66	18.9	94	wnw.			1-2		10	nw.				1	nw.	showery.
H. M. S. Iron Duke, N. 18° 26′, E. 118° 00′	30.11	764.8	80	26.7	95	ne.			1-2		3	ne.						d. clouds.
H. M. S. Lark, S. 9° 05′, E. 160° 20′	29.90	759.4	83.3	28.5		calm			0		3							d. clouds.
H. M. S. Magpie, N. 35° 25 , E. 139° 43′	29.91	759.7	59	15.0	79	sse.			1		0							blue sky.
H. M. S. Malabar, N. 37° 28′, E. 10° 00′	30.03	762.7	64	17.8	83	w.			3		3	wnw.				2	wnw.	d. clouds.
H. M. S. Nelson, Sydney, N. S. Wales	30.10	764.5	71	21.7	80	calm			0		1	s.						blue sky.
H. M. S. Northampton, Bermuda, W. I.	29.80	756.9	68	20.0	84	nnw.			5		3	nnw.						d. clouds.
H. M. S. Orontes, N. 32° 21′ W. 36° 40′	29.89	759.2	67.5	19.7	91	ene.			2		10					2	ene.	overcast.
H. M. S. Pegasus, N. 1° 17′, E. 103° 52′	30.48	774.2	84	28.9	91	calm			0		10							d. clouds.
H. M. S. Rambler, S. 15° 08′, E. 12° 08′	29.84	757.9	75	23.9	100	wsw.			3		1					2	ssw.	hazy.
H. M. S. Rocket, Esquimalt, Vancouver Id., B. C.	29.86	758.4	39	3.9		calm			0		5							d. clouds.
H. M. S. Serapis, N. 14° 29′ E. 53° 56′	29.96	761.0	85	29.4	58	s.			2		2	s.						d. clouds.
H. M. S. Superb, N. 36° 53′, E. 15° 45′	29.80	756.9	63	17.2	67	wnw.			2		2	calm						misty.
H. M. S. Tenedos, N. 34° 20′ W. 64° 19′	30.12	765.0	63	17.2	88	nnw.			5		10					4	nw.	overcast.
H. M. S. Thalia, S. 14° 12′, W. 6° 57′	29.97	761.2	80.5	26.9	74	ese.			1		1					1	ese.	blue sky.
H. M. S. Triumph, Coquimbo, Chili	30.10	764.5	53	11.7	93	calm			0									dense fog.
H. M. S. Tyne, Aden Roads, Arabia	29.97	761.2	84.5	29.2	98	s.			3-4		0					1	ne.	blue sky.
H. M. S. Woodlark, N. 25° 52′, E. 55° 30′	29.80	756.9	85.5	29.7	75	nnw.			2		0							misty.
PORTUGUESE NAVAL.	29.73	755.1																
Rio Lima, Bulama, Senigambia	30.05	763.3	81.0	27.2	86	sw.			4		0					2		blue sky.
Tamega, Aberdeen, China	29.92	760.0	75.2	24.0	85	se.			1		9					1	se.	overcast.
SWEDISH NAVAL.																		
Balder, N. 40° 43′ W. 49° 01′	29.80	757.0	62.1	16.7	95	sw.			6		10							misty.
UNITED STATES NAVAL.																		
Navy Yard, Pensacola, Fla	30.03	762.7	69	20.6	80	ene.	12	5.4			5		se.	0	0			fair.
Navy Yard, Portsmouth, N. H.	30.23	767.8	40	4.4	56	nw.	5	2.2			0			0	0			clear.
Naval Hospital, Yokohama, Japan	29.86	758.4	58.5	14.7	76	calm			0		0			0	0			clear.
Adams, N. 17° 04′, W. 101° 02′	29.68	753.9	80	26.7	91	n nw.			2		0			0	0			sm'h hazy.
Alaska, Panama, Panama	29.77	756.1	76	24.4	91	nw.			1		5?		n.	0	0			sm'h cloudy?.
Alert, Kobe, Japan*	29.95	760.7	63	17.2	62	ne.			1		2		calm	0	0			sm'h hazy.
Alliance, Key West, Florida	30.02	762.5	78	25.6	82	n.			1		2			0	0			sm'h clear.
Ashuelot, Kobe, Japan	30.05	763.3	60	15.6	82	wnw.			1		2		calm					fair.
Brooklyn, Montevideo, Uruguay	30.19	766.8	60	15.6	82	nw.	6	2.7			2		n.	0	0			sm'h fair.
Colorado, New York, N. Y.	30.29	769.4	44	6.7	61	ne.	1	0.4			0			0	0			clear.
Enterprise, N. 25° 30′, W. 79° 53′*	30.02	762.5	79	26.1	82	ne.			4		8		ne.					sm'h cloudy.
Essex, S. 15° 37′ W. 30° 23′	30.04	763.0	79	26.1	78	ese.			1		5?							long se. clear?
Franklin, Norfolk, Va.	30.26	768.6	47	8.3	77	wnw.	6	2.7			2		wnw.	0	0			fair.
Galena, Leghorn, Italy	30.01	762.2	63	17.2	83	wsw.			3		8		w.					mod fair.
Independence, Navy Yard, Mare Island, Cal.	30.09	764.3	43	6.1	92	nw.			1		2			0.19	4.8			clear.
Iroquois, Mare Island, Cal.	30.14	765.5	52	11.1	73	calm			0		0							clear.
Kearsarge, Hampton Roads, Va.	30.31	769.9	47	8.3	100	nnw.			1		2							sm'h clear.
Lackawanna, Casma Bay, Peru*†	29.98	761.5	65	18.3	89	calm			0		2		e.					clear.
Lancaster, Leghorn, Italy*	29.97	761.2	64	17.8	68	wsw.			3		5		wsw.	0	0			fair.
Marion, S. 21° 19′, W. 10° 58′	30.11	764.8	75	23.9	77	nne.			3		2		calm					sm'h clear.
Michigan, Erie, Pa.	30.14	765.5	38	3.3	100	e.			2		0							clear.
Minnesota, Newport, R. I.	30.28	769.1	43	6.1	67	nnw.	4	1.8			0							clear.
Monocacy, Kobe, Japan	30.08	764.0	62	16.7	83	sw.			1		2		calm					fair.
New Hampshire, Newport, R. I.	30.21	767.3	45	7.2	76	n.			2		0							sm'h clear.
Nipsic, Villafranca, France	29.90	759.4	67	19.4	50	wsw.			2		8		ne.					sm'h sw. fair.
Onward, Callao, Peru†	30.05	763.3	61	16.1	100	sse.			2		10		n.					long w. cloudy.
Palos, Kobe, Japan	30.09	764.3	58	14.4	64	w.			1		0							clear.
Passaic, Washington, D. C.	30.34	770.6	40	4.4	100	ne.			2		0							clear.
Pensacola, Callao, Peru	29.93	760.2	61	16.1	94	sse.	2	0.9			8			0	0			sm'h foggy.
Powhatan, Key West, Florida	30.04	763.0	80	26.7	78	n.			2		0							clear.
Portsmouth, N. 40° 39′, W. 46° 12′	29.99	761.7	63	17.2	94	sw.			6		10							r'gh sw. cloudy.
Quinnebaug, Leghorn, Italy	29.98	761.5	62	16.7	72	w.			4		8		w.					sm'h cloudy.
Ranger, N. 23° 45′, W. 107° 12′*	29.85	758.2	70	21.1	85	wnw.			1		2		calm	0	0			sm'h clear.
Richmond, Kobe, Japan*	30.02	762.5	68	20.0	65	calm			0		0			0	0			clear.
Saratoga, N. 41° 40′, W. 45° 49′	29.93	760.2	63	17.2	94	sw.			6-7		8		sw.	light	light			r'gh sw. cloudy.
Shenandoah, N. 30° 40′ W. 78° 53′*	30.18	766.6	68	20.0	65	ne.			3		2		ne.					mod. ne. clear.
St. Louis, League Island, Pa.	30.56	776.2	41	5.0	49	n.	7	3.1			0			0	0			clear.
Swatara, N. 33° 58′, E. 125° 35′*	29.91	759.7	59	15.0	88	n.			2		10		nw.					sm'h cloudy.
Tennessee, Portress Monroe, Va.	30.34	770.6	47	8.3	?	nw.	9	4.0			0			0	0			clear.
Vandalia, Hampton Roads, Va†	30.50	774.7	46	7.8	84	nnw.			1		0							clear.
Wabash, Boston, Mass.	30.23	767.8	38	3.3	72	nw.	6	2.7						0	0			clear.
Wachusetts, Sitka, Alaska	29.83	757 7	35	1.7	100	calm			0		0							long w. clear.
Wyoming, Port Royal, S. C.	30.18	760.6	59	15.0	82	nne.	10	4.5			8		nne.	0	0			cloudy.
Yantic, Fort Monroe, Va*†	30.35	770.9	49	9.4	93	nnw.			2		0							clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Circassian, N. 43° 20′, W. 47° 15′	30.04	763.0	40	4.4	100	se.			4		10		se.	8 h'r	8 h'r	4	sw.	raining.
S. S. Nova Scotian, Mersey River, Eng	29.36	745.7	49	9.4		wnw.			3		2		wnw.					fair.
S. S. Polynesian, N. 50° 11′ W. 32° 57′*	29.51	749.5	48	8.9		wnw.			7		3		nw.	1 h'r	1 h'r	r'gh	nw.	clear.
S. S. Scandinavian, N. 49° 05′, W. 31° 01′*	29.62	752.3	48	8.9		nw.			7		5		w.	sh'rs	shr's	high	nw.	d. clouds.
S. S. Waldensian, N. 55° 13′, W. 10° 45′*	29.54	750.3	47	8.3		nnw.			4		10		ne.	light	light	long	ne.	showery.
AMERICAN STEAMSHIP COMPANY.																		
S. S. British Crown, N. 51° 00′, W. 12° 54′†	29.66	753.4	50	10.0		n.			4		9		nne.	o	o	sm'h		overcast.
S. S. Illinois, Liverpool, Eng	29.26	743.2	57	13.9	93	w			5		2		w.					fine.
S. S. Indiana, N. 39° 12′ W. 59° 48′*	30.09	764.3	59	15.0	64	n.			5		5		ne.	o	o	mod.	n	fair.
S. S. Ohio, Liverpool, Eng†	29 51	749.5	50	10.6	93	nnw.			5		5		nnw.					
S. S. Pennsylvania, N. 39° 54′, W. 51° 38′†	29.82	757.4	64	17.8	94	wsw.			6				wsw.			r'gh	sw.	showery.
ANCHOR LINE.																		
S. S. Assyria, N. 54° 43′, W. 12° 53′*†	29.65	753.1	41	5.0		nne.			6		1		nne.	o	o	h'vy	ne.	clear.
S. S. Bolivia, N. 40° 33′, W. 56° 36′†	29.75	755.6	48	8.9		ene.			4		4		ene.	driz	driz	mod.	ene.	threatening.
S. S. Devonia, N. 42° 15′, W. 60° 55.′†	29.87	758.7	38	3.3		wnw.			3		2		wnw.			sm'h		clear.
S. S. Ethiopia, N. 52° 30′, W. 25° 40′†	29.48	748.8	49.8	9.9	100	w.			3		10		w.	3 h'r	3 h'r	h'vy	w.	showery.
S. S. Galatia, N 48° 25′, W. 28° 11′†	29.71	754.6				wsw.			6		9		wsw.	10 h'r	10 h'r	high	wnw.	rainy.
S. S. India, N. 13° 15′, E. 48° 15′*	29.76	755.9	86	30.0	88	ene.			1		1							fair.
ATLAS LINE.																		
S. S. Ailsa, N. 16° 08′ W. 75° 10′†	30.01	762.2	80	26.7	78	ese.			2		5		e.	o	o	mod.	ese.	fine.
S. S. Alvo, Cartegena, U. S. C.	29.80	756.9	109	42.8		n.			3		2		n.	o	o			fair.
S. S. Arden, N. 32° 10′, W. 74° 15′						nne.			1		2					mod.	nne.	fine.
S. S. Athos, N. 37° 40′, W. 73° 40′	30.37	771.4				sse.			2		7		s.	o	o	mod.	s.	cloudy.
S. S. Claribel, N. 18° 33′, W. 72° 20′*†	30.12	765.0	81	27.2	82	calm			0		2		calm	o	o			fine.
BRITISH METEOROLOGICAL OFFICE.																		
Bk. Arran, S 21° 49′, W. 2° 46′	30.15	765.8	75	23.9	79	sse.			7		10							overcast.
S. Baroda, N. 17° 21′, E. 83° 16′	29.72	754.9	84.5	29.2	71	w.			4		4							d. clouds.
British Merchant, S. 25° 17′, E. 56° 34′	30.07	763.8	78.6	25.9	73	e.			2		2							d. clouds.
Glencairn, S. 8° 15′, E. 92° 40′	29.81	757.2	77	25.0	100	sw.			6		10							raining.
S. S. Julia H., N 30° 58′, W. 73° 05′	30.05	763.3	63.9	17.7	78	ne.			6		8							d. clouds.
S. S. Minho. N. 48° 50′, W. 4° 36′	29.36	745 7	52.6	11.4	93	wsw.			6		7							d. clouds.
CROMWELL LINE.																		
S. S. Hudson, N. 29° 45′, W. 80° 30′†	30.12	765.0	65	18.3		ne.			3		4		ne.	o	o	mod.	nne.	hazy.
CUNARD LINE																		
S. S. Gallia, N. 50° 19′ W. 23° 00′	29.56	750.8	49	9.4	?	sw.			4		10			light	light	high	w.	raining.
S. S. Scythia, N. 47° 31′, W. 32° 25′	29.84	757.9	58	14.4	88	wnw.			6		5?		wnw.	6 h'r	6 h'r	r'gh	wnw.	cloudy?
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. Canada, N. 48° 46′, W. 22° 15′	29 68	753.8	51.8	11.0		w.			3		10		w.	3½h'r	3½h'r		wsw.	covered.
S. S. France, N. 41° 29′, W. 60° 23′†	29.95	700.7	53.6	12.0		n.			4				nnw.	o	o	mod.	nnw.	covered.
S. S. St. Germain, N. 44° 51′, W. 39° 56.′			53.6	12.0		sw.			1				sw.	rain	rain		sw.	hazy.
GUION LINE.																		
S. S. Arizona, N. 49° 32′ W. 25° 36′	29.52	749.8	53	11.7		ssw.			4		10		w.	10 h'r	10 h'r	long	w.	raining.
S. S. Wisconsin, N. 48° 30′, W. 30° 30′*†	29.68	753.9	48	8.9	?	wnw.			6		10?		wnw.	16 h'r	16 h'r	mod.	w.	clear ?
HAMBURG AMERICAN PACKET COMPANY.																		
S. S Bohemia, N. 50° 22′, W. 2° 01′*†	29.27	743.4				wsw.			6		8		w.	rain	rain	cross	wsw.	stormy.
S. S. Cimbria, N. 44° 14′, W. 43° 54′	29.87	758.7	45.0	7.2		se.			2		10		s.	10 h'r	10 h'r	mod.	sw.	light rain.
S. S. Lessing, N. 51° 22′, E. 1° 52′	29.40	746.8	64	17.8		sw.			3		10			o	o			cloudy.
S. S. Silesia, N. 42° 23′, W. 47° 23′†	29.86	758.4	50	10.0		se.			5		10		sw.	10 h'r	10 h'r	6	sw.	cloudy.
S. S. Wieland, N. 48° 35′ W. 18° 47′	29.75	755.6	58	14.4		w.			5		8		sw.	15 h'r	15 h'r	4	w.	fair.
INMAN LINE.																		
S. S. City of New York, N. 40° 55′ W. 56° 42′	29.88	758.9				nw.			5		10		nw.	o	o	r'gh	nnw.	hazy
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, S. 13° —′, W. 35° —′*†	30.26	768.6	82	27.8		ese.			2		6		sse.	o	o	high	ssw.	cloudy.
S. S. Humboldt, S. 18° 30′, W. 38° 30′*	30.16	766.1	76.5	24.7	82	se.			7		9			6 h'r	6 h'r	6	sse.	overcast.
LEYLAND LINE.																		
S. S. Iberian, N. 42° 21′, W. 66° 06′.*	30.07	763.8				nw.			1		0			1 h'r	1 h'r			
MALLORY LINE.																		
S. S. Colorado, New York, N. Y†	30.28	769.1	43	6.1		n.			2		0			0	0			clear.
MERCHANTS' EXPRESS LINE.																		
S. S. Freja, N. 43° 19′, W. 41° 48′†	30.03	762.7	56	13.3	94	sw.			5		10		wsw.	4 h'r	4 h'r	mod.	wsw.	raining.
MERCHANTS' STEAMSHIP COMPANY.																		
S. S. Glenapp, N. 25° 20′, W. 61° 37′*†	30.08	764.0				s.			4		7		s.	o	o	sm'h		cloudy.
NATIONAL LINE.																		
S. S Denmark, N. 43° 05′, W. 41° 46′	29.99	761.7	65	18.3		s.			3		10		w.	3 h'r	3 h'r	mod.	sw.	hazy.
S. S. England, N. 46° 28′ W. 35° 11′	29.95	760 7				w.			6		8		w.	10 h'r	10 h'r	h'vy	wsw.	cloudy.
S. S. Erin, London, England	29.25	742.9	59	15.0		sw.			7		10			3 h'r	3 h'r			gloomy.
S. S. Italy, N. 40° 12′, W. 57° 50′	29.92	760.0	48	8.9	92	n.			6		8		nne.	4 h'r	4 h'r	r'gh	n.	cloudy.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Niagara N. 30° 02′ W. 80° 11′†	30.14	765.5	68	20.0	74	ne.			2		4		ese.	o	o	sm'h		cloudy.
NEW YORK, HAVANA MAIL, AND MEXICAN																		
S. S City of Alexandria, New York, N. Y.*†	30.34	770.6	46	7.8		n.			3		2		n.	o	o			clear.
S. S. City of Puebla, N. 22° 19′, W. 87° 36†	29.91	759.7	78	25.6		sse.			2		5		sse.			light	ese.	
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Alvena, N. 29° 19′ W. 66° 25′†	29.90	759 4	70	21.1		var.			1								sw.	overcast.
S. S. Atlas, N. 39° 18′, W. 74° 00′*†	30.30	769.6	46	7.8		nne.			3							sm'h		fair.
S. S. New York, N. 35° 55′, W. 75° 00′*†	30.35	770.9	45	7.2		n.			3								ne.	clear.
S. S. Olbers, S. 2° 44′ W 31° 15′*†	30.02	762.5	82	27.8		ese.			3-4								ese.	fine.
S. S. W. A. Scholten, N. 51° 50′, E. 3° 50′	29.36	745.7	61.5	16.4		w.			4									
NORTH GERMAN LLOYD																		
S. S. Graf Bismarck, S. 12° 40′, W. 38° 00′	30.10	764.5	77.9	25.5		sse.			6-7		10		sse.	18 h'r	18 h'r	r'gh	sse.	raining.
S. S. Habsburg, N. 49° 06′, W. 27° 43′	29.57	751.1	51.8	11.0		sw.			6		8		sw.			r'gh	sw.	light rain.
S. S. Kronprinz F. Wilhelm, N. 44° 07′, W. 46° 39′	29.84	757.9	44.6	7.0		ese.			1		10			15 h'r	15 h'r	2	se.	raining.
S. S. Mosel, N. 43° 21′, W. 47° 05′	29.91	759.7	42	5.6		se.			3		10		s.	7 h'r	7 h'r	mod.	ssw.	cloudy.
S. S. Nurnburg, N. 41° 13′, W. 51° 56′*	29.71	754.6	57.2	14.0		n.			5		10		n.	3¼h'r	3¼h'r	mod.	n.	raining.
S. S. Ohio, N 49° 04′ W. 11° 10′	29.53	750.0				w.			6		8		w.	10 h'r	10 h'r	long	wnw	clearing.
S. S. Rhein, N. 50° 29, W. 1° 55′	29.25	742.9				n.			4		9		s; sw.	6 h'r	6 h'r	mod.	sw.	raining.
S. S. Salier, N 45° 49′, W. 35° 23′	29.97	761.2	50.0	10.0		wnw.			6		8		wnw.	4 h'r	4 h'r	h'vy	sw.	fair.
S. S. Strassburg, N. 41° 49′, W. 51° 50′	29.72	754.9	47.0	8.3	92	e.;ne.			4		10		ne.	12 h'r	12 h'r	mod.	e.	cloudy.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Belgic N. 37° 12′, W. 147° 29′†	30.11	764.8	63	17.2	78	ssw.			4		8		sw.	o	o	mod.	sw.	cloudy.
S. S. Oceanic, Hong Kong, China*	29.80	756.9	74	23.3	90	se.			3									overcast.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, Savannah, Ga†	30.14	765 5				nne.			1		5?			o	o			clear?
S. S. Seminole, Boston, Mass†	30.22	767.6	48	8.9	56	calm			0		0			o	o			clear.
OREGON IMPROVEMENT COMPANY.																		
S. S. Mississippi, Seattle, Wash. Ter.†	30.07	763.8	44	6.7	84	se.			2		8		nw.					fair.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. City of Chester, N. 39° 11′, W. 123° 55′*†	30.26	768.6	48	8.9	43	so.			1		2?		se.			mod.	s.	cloudy.?
S. S. Columbia, N. 40° 49′, W. 124° 30′†	30.19	766.8	46	7.8	58	ese.			2		1					long	nw.	clear.
S. S. Oregon, San Francisco, Cal†	30.22	767.6	47	8.3	85	calm			0		0							clear.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, San Francisco, Cal. †	30.19	766.8	46	7.8	84	nw.			2		0							clear.
S. S. Idaho, Tacoma, W.T†	30.18	766.6	40	4.4	100	se.			2		8		se.					hazy.
S. S. State of California, Portland, Oregon†	30.05	763.3	38	3.3	90	sse.			4		4		sse.					showery.
S. S. Victoria, N. 43° 23′ W. 125° 00′.†	30.10	764.5	45	7.2	76	sw.			3		8			o	o	h'vy		squally.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
PACIFIC MAIL STEAMSHIP COMPANY.—Continued.																		
S. S. Australia, S. 35° 43′, E. 175° 35′	30.11	764.8	64	17.8	83	sw.			3		10					sm'h		hazy.
S. S. City of New York, Sydney, N. S. W.†	29.87	758.7	74	23.3	81	calm			0		0?			0	0			overcast,?
S. S. City of Pekin, N. 23° 10′ W. 107° 20′†	29.89	759.2	72	22.2	80	w.			3		5		w.			sm'h		hazy.
S. S. City of Rio de Janeiro, Panama, Panama*†	30.10	764.5	76	24.4	86	nw.			2		2		nw.			sm'h	nw.	clear.
S. S. City of Tokio, N. 34° 42′, E. 146° 49′†	30.00	762.0	58	14.4	64	nw.			7		2		wsw.	6 h'r	6 h'r	r'gh	nw.	fair.
S. S. Clyde, N. 18° 21′, W. 103° 56′†	29.93	760.2	77	25.0	86	ne.			2		2		ne.	0	0	light	sw.	clear.
S. S. Grenada, N. 22° 36′, W. 106° 04′†	29.91	759.7	78	25.6	86	calm			0		0			0	0			hazy.
S. S. South Carolina, St. Lucas Bay†	29.91	759.7	80	26.7	87	calm			0		0			0	0	light	ne.	hazy.
S. S. Zelandia, S. 11° 39′, W. 170° 07′	29.86	758.4	83	28.3	91	se.			3		0					sm'h		clear.
QUEBEC S. S. COMPANY.																		
S. S. Muriel, Antigua, W. I.	30.01	762.2	80	26.7		ene.			2		0			0	0	sm'h		fair.
S. S. Bermuda, Antigua, W. I†	30.02	762.5	57	13.9		e.			2		4		e.	0	0	sm'h		fine.
RED STAR LINE.																		
S. S. Belgenland, N. 46° 00′, W. 32° 16′†	30.14	765.5	59	15.0	94	sw.			6		9		sw.	11 h'r	11 h'r	h'vy	w.	cloudy.
S. S. Nederland, N. 39° 53′, W. 56° 37′*†	29.92	760.0	50	10.0		nnw.			4		10					sm'h	ssw.	misty.
S. S. Rhynland, Jersey City, N. J.	30.28	769.1	40	4.4	64	n.			3		0			0	0			clear.
S. S. Vaderland, N. 49° 33′, W. 10° 18′	29.47	748.5	53	11.7	80	wnw.			6		5?		w.	7 h'r	7 h'r	r'gh	wsw.	clear.?
S. S. Waesland, N. 49° 26′, W. 10° 16′	29.47	748.5	56	13.3		wnw.			5		8		nw.	sh'rs	sh'rs	mod.	nw.	clearing.
ROTTERDAM LINE.																		
S. S. Schiedam, N. 43° 25′ W. 41° 02′*	29.92	760.0	51.3	10.7	87	ene.			4		10			8 h'r	8 h'r	mod.	sw.	hazy.
STATE LINE.																		
S. S. State of Florida, Glasgow, Scotland	29.29	744.0	50	10.0		w			4		9		w.	3 h'r	3 h'r			cloudy.
S. S. State of Georgia, N. 45° 28′ W. 43° 19′†	30.00	762.0	48	8.9		sw.			1		10					long	sw.	cloudy.
THINGVALLA LINE.																		
S. S. Thingvalla, N. 42° 00′ W. 53° 22′†	29.99	761.7	43.7	6.5		nne.			2		8		nne.	7 h'r	7 h'r	sm'h	nne.	covered.
WHITE CROSS LINE.																		
S. S. Hermann, N. 51° 03′, E. 1° 10′†	29.58	751.3				wsw.			4		10 n		ssw.	rain	rain	mod.		sprinkling.
S. S. Plantyn, N. 40° 27′ W. 72° 54′	30.26	768.6				calm			0		0			0	0	sm'h		clear.
WHITE STAR LINE.																		
S. S. Adriatic, Liverpool, Eng.†	29.46	748.3	54	12.2		wnw.			5		5		w.	0	0	sm'h		d. clouds.
S. S. Baltic, N. 50° 06′ W. 25 41′†	29.57	751.1	49	9.4	93	var.			3		10		se.	10 h'r	10 h'r	mod.	con.	drizzling
S. S. Britannic, N. 46° 24′, W. 37° 14′†	29.82	757.4	47	8.3		w.			4		8		wsw.	4 h'r	4 h'r	mod.	wsw.	d. clouds.
S. S Celtic, New York, N. Y†	30.26	768.6	42	5.6		nne.			3		0			0	0			fine.
WILSON LINE.																		
S. S. Otranto, N. 49° 12′, W. 14° 27′†	29.35	745.5	55	12.8		wnw.			5				wnw.			cross	wnw.	raining.
S. S. Romano, New York, N. Y.*†	30.06	763.5	48	8.9														clear.
S. S. Salerno, Falmouth, Eng*	29.29	744.0	51	10.6	86	w.			5		10		w.					raining.
WINSOR LINE.																		
S. S. Catherine Whiting, Philadelphia, Pa.†	30.34	770.6				ne.			1		0			0	0			
MISCELLANEOUS.																		
Schr. Abbe Clifford, N. 35° 14′, W. 54° 17′*†	30.00	762.0	72	22.2		ssw.			5		10		ssw.	2 h'r	2 h'r	mod.	ssw.	cloudy.
Sch. Addie Fuller, Newport News, Va†	30.35	770.9	50	10.0	86	nw.					1 k		nw.	0	0			clear.
Bk. Adelaide, Rio de Janeiro, Brazil*†	30.15	765.8	73	22.8		e.			0				se.					
Schr. Ajax, Mobile, Ala†	30.07	763.8				calm			0					0	0			cloudy.
Bk. Alpha, Santiago de Cuba, Cuba, W. I†	29.96	761.0	81	27.2		calm			0		1			0	0			fair.
Schr Annie Lewis, N 28° 27′, W. 91° 05′†	30.14	765.5	76	24.4		e.			3		8		w.	0	0	short	e.	cloudy.
Bk. Antioch, S. 40° 25′, E. 30° 00′*†	29.33	745.0	60	15.6		wsw.			8		7?		wsw.	2 h'r	2 h'r	mod.	wsw.	overcast?
Schr Asa Eldridge, Punta Rassa, Fla†	30.09	764.3				ne.			3		1			0	0			clear.
Bk. Aureola, S. 11° 43′, W. 33° 30′*†	30.15	765.8	96	35.6		sse.			4		4		se.	0	0	long	ssw.	fine.
Schr. Annie M. Small, S. 39° 50′, E. 80° 10′*†	29.60	751.8	54	12.2		sw.							sw.	0	0			
Bkt. Carrie Heckle, Cienfuegos, Cuba, W. I*†	30.16	766.1	81	27.2		calm			0		2		ne.	0	0			fair.
Bk. Celestina, S. 33° 45′, W. 51° 24′*†	30.30	769.6				ne.			3		3		var.	0	0	light	se.	
Bk. Champion, N. 49° 53′, W. 5° 07′†	30.31	769.9				w.			5		8		nw.	8 h'r	8 h'r	long	wnw.	
S. S. Compton, Havana, Cuba, W. I†	30.04	763.0				calm			0		1		calm	0	0			clear.
S. Dora, N. 40° 00′, W. 50° 40′†	29.95	760.7	65.3	18.5		ssw.			7		9		ssw.	5 h'r	5 h'r	r'gh	sw.	hazy.
S. E. J. Spicer, N. 39° 41′, W. 51° 32′†	29.82	757.4				sw.			6		9		sw.	24 h'r	24 h'r	cross	sw.	cloudy.
S. Enoch Train, N. 41° 40′ W. 45° 20′*	29.85	758.2				sw.			5		10		sw.	mist	mist	light	sw.	misty.
S. Exporter, S. 10° 37′, W. 30° 06′*†	30.10	764.5				se.			4		1		se.	0	0	long	se.	fine.
S. Festina Lente, N. 39° 15′, W. 55° 48′*	29.83	757.7	57	13.9		n.			5		10		n.	24 h'r	24 h'r	cross	s;w.	foggy.
U.S.F.C.S.S.Fish Hawk, Quantico, Va†	30.40	772.1	47	8.3	69	nnw.			3		0			0	0			clear.
S. Grecian, S. 41° 10′ E. 39° 05′*†	29.35	745.5	49	9.4		w.			9		5		w.	2 h'r	2 h'r	h'vy	wto n	
Bk. Freya, N. 49° 12′ W. 16° 03′			54	12.2		wnw.			5		5		w.	6 h'r	6 h'r	mod.	nnw.	fair.
Bk. Granville, Algoa Bay, Africa*†	30.10	764.5				w.			4					0	0			clear.
Schr. Hattie G. McFarland, Baltimore, Md*†	30.30	769 6	63	17.2		ne.			3		1		n.	0	0			clear.
Schr. Henry Denison, N. 30° 31′, W. 75° 52′†	30.08	764.0				ne.			3		3		nne.	0	0	rg'h	n.	fair.
S. Hedwig, N. 41° 22′, W. 56° 26′	29.85	758.3	48.4	9.1	92	n.			6		10		n,to nw	8 h'r	8 h'r	3	nne.	clearing.
Schr. John L. Thomas, Serrana Cays, C. A*†	30.08	764 0				ne.					3		ene.	0	0	light	ne.	fine.
Bg. John Wesley, Sagua la Grande, Cuba, W. I.†	29.93	760.2	79	26.1		ene.			5		0			0	0			clear.
Bk. Jona, N. 48° 50′, W. 11° 50′*†	29.80	756.9				nw.			4		5		nw.	10 h'r	10 h'r	hv'y	var.	squally.
Bkt. Josephine, N. 10° 46′ W. 76° 31′*†	29.98	761.5	82	27.8	74	nne.			5		10		ne.	0	0	r'gh	nne.	cloudy.
Bk. Kate Cann, N. 46° 54′, W. 16° 40′*†	29.82	757.4				nw.			5		3?		nw.	shr's	shr's	high	wnw.	cloudy?
Bkt. Kryolith, N 45° 27′ W. 12° 35′*†	29.80	756.9				w.			6		5		wnw.	0	0	mod.	wnw.	clearing.
S. Lake Erie, N. 47° 31′, W. 22° 46′	29.63	752.6				sw.			3		10		w.	0	0	hv'y	wsw.	misty.
S. S. Lamperts, N. 43° 32′, W. 9° 45′*	29.86	758.4	57.8	14.3	93	sw.			6		10					4	wnw.	drizzling
Light House Tender, Laurel, Key West, Florida†	30.06	763.5	79	26.1		n.			1		2		s.	0	0			clear.
Schr. Maggie Abbot, Baracoa, Cuba, W. I*†	29.92	760.0																
S. S. Malabar, Suez Canal*†	29.97	761.2				n.								0	0			
Bg. Medina, Key Francis, W. I†	30.17	766.3				calm			0		0							fine.
S. S. Nebo, Rio de Janeiro, Brazil*†	30.11	764.8				calm			0		5?			0	0			clear,?
Bk. Peppina, Bordeaux, France†	29.85	758.2	60	15.6	70	sw.			1		5?		sw.					cloudy?
S. Salisbury, S. 12° 05′ W. 29° 04′*	30.05	763.3	86.9	30.5	80	ese.			4		4		ese.	¼ h'r	¼ h'r	mod.	ese.	fair.
Schr. S. B. Hubbard, N. 31° 58′, W. 79° 48′*†	30.19	766.8	68	20.0		ne.			3		0			0	0	h'vy	ne.	fine.
Bkt. Spotless, S. 18° 38′, W. 36° 36′*†	30.10	764 5				se.							se.			h'vy	s.	fine.
Bk. Stella, S. 31° 52′, W. 82° 32′*	30.07	763.8	67.1	19.5	90	n.			4		5		w.	0	0	sm'h	w.	d. clouds.
S. S. Utopia, N. 40° 22 W. 64° 22′†	30.10	764.5	45	7.2	92	nnw.			3		4		n.	1 h'r	1 h'r	mod	nw.	fair.
Yacht Vega, Off Sandy Hook, N. J.*†	30.30	769.6	40	4.4		var.			1		6			0	0	light	se.	fair.
S. Washington, N. 46° 00′, W. 36° 16′*†	29.93	760.2				w.			4		2		w.	4 h'r	4 h'r	r'gh	w.	clear.
Bg. Wauburn, N. 14° 31′, W. 51° 24′*†	30.20	767.1				e.			6		0					light	e.	clear.
S. Wm. Woodbury, N. 38° 44′, W. 48° 28′*†	29.92	700.0	68	20.0		ssw.			6				w.			light	w.	foggy

International Chart I. April 25, 1882. Isobars and Isotherms.



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON APRIL 26, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours	.....	.....	30.00	762.0	72.3	22.4	85	w.	.....	.....	3	.....	0	.....	.....	0	0	clear	Moiroud.
Algiers	.....	.....	29.88	758.9	73.4	23.0	50	w.	.....	.....	7	.....	3	.....	.....	0	0	pretty fair	Nicolas.
La Calle	.....	.....	29.80	757.0	76.3	24.6	63	n.	.....	.....	1	.....	3	.....	.....	0	0	pretty fair	Foufrède.
Tunis	.....	.....	29.80	756.8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.07	763.7	69.4	20.8	31	wnw.	.....	.....	4	.....	3	.....	.....	0	0	pretty fair	Dumas.
Tebessa	.....	.....	30.17	766.3	52.2	11.2	73	sw.	.....	.....	5	.....	5	.....	.....	0	0	cloudy	Derché.
Geriville	.....	.....	.....	.....	67.3	19.6	15	nw.	.....	.....	6	.....	5	.....	.....	0	0	cloudy	Lonchamp.
Laghouat	.....	.....	30.04	763.0	75.2	24.0	57	s.	.....	.....	4	.....	0	.....	.....	0	0	clear	Abraham.
Biskra	.....	.....	30.02	762.5	76.3	24.6	31	se.	.....	.....	1	.....	5	.....	.....	0	0	cloudy	Malau.
Australian.																			
Melbourne, Victoria	29.55	750.6	29.64	752.8	54.3	12.4	90	n.	2	0.9	.....	A.....	8	.....	.....	0.09	2.3	dull	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.07	738.3	29.60	751.9	62.2	16.8	40	w.	.....	.....	6	.....	10	.....	.....	0	0	.....	Prof. Ivan Stozir.
Cracow, I. R Observatory	28.74	729.9	29.47	748.6	66.2	19.0	33	sw.	13.6	6.1	.....	.....	8	.....	.....	0	0	.....	Dr. Wierzbiski.
Eperies	28.68	728.4	29.52	749.8	66.2	19.0	41	s.	.....	.....	4	0	9 k	.....	n.	0	d	.....	Julius Mikolik.
Gratz	28.31	719.1	29.52	749.8	63.3	17.4	48	s.	.....	.....	4	.....	10	.....	.....	0	0	.....	Andreas Rospini.
Hermannstadt	28.25	717.5	29.62	752.3	68.4	20.2	58	sse.	.....	.....	3	.....	7	.....	.....	0.067	1.7	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	29.17	715.6	29.48	748.8	57.2	14.0	58	nw.	.....	.....	1	.....	10	.....	.....	0	0	gloomy	The Staff.
Lemberg	28.61	726.6	29.55	750.6	66.7	19.3	38	sw.	.....	.....	2	.....	7	.....	.....	0	0	.....	Dr. T. Stanecki.
Pola	29.56	750.9	29.67	753.7	57.2	14.0	88	s.	.....	.....	2	.....	10	.....	.....	0	0	.....	I. R.Hydrographic Office.
Szathmar	29.16	740.6	29.61	752.0	70.5	21.4	31	sw.	.....	.....	5	.....	6	.....	.....	0	0	.....	Joseph Midlinszky, S. J
Szegedin	29.35	745.5	29.62	752.3	68.2	20.1	.....	s.	.....	.....	4	.....	7	.....	.....	0	0	.....	Karl Stancel.
Trieste	29.59	751.5	29.69	754.1	59.2	15.1	67	sw.	.....	.....	3	.....	10	.....	.....	0.409	10.4	.....	Rieder.
Vienna	28.78	731.1	29.48	748.7	63.1	17.3	44	nw.	.....	.....	2	.....	9	.....	.....	0	0	.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.35	745.5	29.45	748.0	42.0	5.6	69	nw.	30	13.4	.....	.....	7	.....	.....	0.070	1.8	squally	W. Boswell.
Armagh, Observatory	29.30	745.7	29.59	751.6	47.0	8.3	65	n.	13	5.8	.....	.....	10	.....	.....	.....	.....	overcast	S. Call.
Bidston, Liverpool Obs'y	.....	.....	29.46	748.3	50.8	10.4	71	nw.	19	8.5	.....	.....	5	.....	.....	.....	.....	d. clouds	John Hartnup.
Bolton, Sharples	28.91	734.3	29.44	747.8	47.4	8.6	60	n.	6	2.7	.....	.....	9	.....	.....	.....	.....	overcast	Thomas Mackereth. [A.S.
Bradford, Yorkshire	29.00	736.6	29.40	746.7	48.5	9.2	61	ne.	.....	.....	3	.....	7	.....	.....	0	0	d. clouds	J.McLandsborough, F.R
Bridgetown, Barbadoes	29.97	761.2	30.00	762.0	84.0	28.9	67	ne.	.....	.....	2	.....	6	.....	.....	.....	.....	gloomy	Corpl.J.Surgenor, A. H.C.
Cardington	.....	*	29.42	747.3	50.0	10.0	74	nw.	.....	.....	2.0	.....	10	.....	.....	.....	.....	overcast	John McLaren.
Chatham, School M. E.	29.26	743.2	29.39	746.5	47.1	8.4	77	nw.	.....	.....	1	.....	10	.....	.....	.....	.....	misty	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	29.32	744.7	29.54	750.3	49.0	9.4	64	nw.	.....	.....	4	.....	6	.....	.....	.....	.....	d. clouds	The Staff.
Fort Napier, Natal	27.63	701.8	29.84	757.9	86.4	30.2	25	n.	.....	.....	1	.....	0	.....	.....	.....	.....	blue sky	Pvt. E. K.Annis, A.H.C.
Free Town, Sierra Leone	29.60	751.8	29.83	757.7	88.0	31.1	69	w.	.....	.....	1	.....	3	.....	.....	.....	.....	.....	Sergt. John Robinson.
Gibraltar, Mediterranean	30.09	764.3	30.14	765.5	66.3	19.1	78	sw.	.....	.....	3	.....	7	.....	.....	.....	.....	gloomy	Cpl. O. Baldwin.
Glasgow, Observatory	29.31	744.5	29.52	749.8	45.5	7.5	42	n.	.....	.....	5	.....	8 k	.....	.....	.....	.....	d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.24	742.7	29.41	747.0	47.6	8.7	59	wnw.	.....	.....	1	.....	10	.....	.....	.....	.....	overcast	The Staff.
Guernsey	29.20	741.7	29.50	749.3	50.0	10.0	67	nnw.	.....	.....	2	.....	3	.....	.....	blank	blank	d. clouds	A. Collenette, F. M. S.
Kew, Observatory	29.38	746.2	29.42	747.3	48.7	9.3	62	nnw.	9	4.0	.....	.....	10	.....	.....	.....	.....	threatening	The Staff.
Leicester, Museum	29.15	740.4	29.40	746.7	47.2	8.4	73	ne.	.....	.....	2	.....	10	.....	.....	.....	.....	overcast	J. C. Smith.
Malta, Mediterranean	29.88	758.9	29.95	760.7	66.2	19.0	56	w.	.....	.....	3	.....	5	.....	.....	.....	.....	d. clouds	I. H. Whysall.
Nassau, Bahamas	30.08	764.0	30.12	765.0	70.0	21.1	.....	ne.	.....	.....	2	.....	4	.....	.....	blank	blank	d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	28.92	734.6	29.44	747.8	48.6	9.2	66	nnw.	.....	.....	2	.....	9	.....	.....	.....	.....	d. clouds	John Mac Email.
Oxford, Radcliffe Obs'y	29.20	741.7	29.43	747.5	49.1	9.5	63	nnw.	.....	.....	3	.....	10	.....	.....	.....	.....	threatening	The Staff.
Plymouth	29.42	747.3	29.49	749.0	54.0	12.2	68	nw.	.....	.....	3	.....	5	.....	.....	.....	.....	d. clouds	John Merrifield.
Sandwick Manse, Orkneys	.....	.....	29.52	749.8	41.8	5.4	83	nnw.	36	16.1	.....	.....	6	.....	.....	.....	.....	d. clouds	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.67	753.6	29.73	755.1	73.2	22.9	38	sw.	.....	.....	1	.....	6	.....	.....	.....	.....	d. clouds	W. H. Lyne.
Sheffield	29.17	740.9	29.43	747.5	47.9	8.8	79	nne.	.....	.....	2	.....	10	.....	.....	0	0	overcast	W. F. Cooper.
Silloth Rectory	29.46	748.3	29.48	748.8	48.8	9.3	57	n	.....	.....	1	.....	10	.....	.....	0	0	overcast	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	29.45	748.0	48.9	9.4	.....	n.	15	6.7	.....	.....	7	.....	.....	.....	.....	d. clouds	Rev. S. J. Perry.
Strathfield Turgiss	.....	.....	.....	.....	50.1	10.1	68	nw	.....	.....	1	.....	8	.....	.....	.....	.....	d. clouds	Rev.C.H.Griffiths, F.M.S
Truro, Royal Institution	29.54	750.3	29.58	751.3	52	11.1	72	n.	.....	.....	7	.....	6	.....	.....	.....	.....	d. clouds	W. Newcombe.
Valencia, Observatory	29.67	753.6	29.70	754.4	50.6	10.3	59	nnw.	16	7.2	.....	.....	4	.....	.....	.....	.....	d. clouds	The Met'g'l Office.
Canadian.																			
Bathurst, N. B	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.20	767.1	30.25	768.3	33	0.6	93	ne.	5	2.2	.....	0	0	.....	.....	Inap.	Inap.	clear	H. J. Cundall, C. E.
Chatham, N. B*	30.21	767.3	30.27	768.8	32	0.0	71	ne.	3	1.3	.....	2 ck	0	ne.	.....	0	0	fair	G. A. Blair.
Father Point, Quebec*	30.24	768.1	30.26	768.6	33	0.6	81	ne.	18	8.0	.....	.....	10 k	.....	calm	0	0	threatening	J. McWilliams.
Fort Garry, Manitoba*	29.05	737.9	29.90	759.4	33	0.0	100	se.	10	4.5	.....	.....	10 n	.....	.....	0.360	9.1	sleeting	James Stewart.
Halifax, N. S*	30.15	765.8	30.28	769.1	34	1.1	78	w.	1	0.4	.....	.....	10 k	.....	.....	0	0	cloudy	A. Allison.
Kingston, Ontario*	29.86	758.4	30.21	767.3	34	1.1	68	n.	3	1.3	.....	0	0	.....	.....	0	0	clear	A. P. Knight, M. A.
Montreal, Quebec*	29.99	761.7	30.21	767.3	34	1.1	62	ne.	3	1.3	.....	2 cs	0	.....	.....	0	0	clear	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.49	749.0	30.21	767.3	33	0.6	81	ne.	4	1.8	.....	0	0	.....	.....	0	0	clear	Rev. R. Mosley.
Port Dover, Ontario	29.42	747.3	30.13	765.3	35	1.7	95	ne.	13	5.8	.....	10 ks	0	w.	.....	0	0	fair	H. Morgan.
Port Stanley, Ontario	29.43	747.5	30.10	764.5	37	2.8	40	ne.	12	5.4	.....	8 ck	0	w.	.....	0	0	cloudy	M. Payne.
Quebec, Quebec*	29.94	760.5	30.28	769.1	30	— 1.1	80	calm	.....	.....	0	2 k	2 s	.....	.....	0	0	hazy	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.78	756.4	30.27	768.8	27	— 2.8	77	calm	0	0	.....	0	0	.....	.....	0	0	clear	W. H. McIntyre.
Saugeen, Ontario*	29.42	747.3	30.16	766.1	33	0.6	92	e.	10	4.5	.....	0	0	.....	.....	0	0	clear	
St. Andrews, N. B	30.17	766.3	30.22	767.6	36	2.2	74	n.	3	1.3	.....	0	0	.....	.....	0	0	clear	
Sydney, C. B*	30.13	765.3	30.19	766.8	34	1.1	74	n.	8	3.6	.....	10 k	0	nw.	.....	0	0	fair	T. C. Hill, C. E.
Toronto, Ontario*	29.79	756.7	30.19	766.8	36	2.2	58	ne.	6	2.7	.....	0	0	.....	.....	0	0	clear	Magnetic Observatory.
Yarmouth, N. S*	30.16	766.1	30.23	767.8	39	3.9	79	sw.	3	1.3	.....	10 k	0	s.	.....	0	0	cloudy	Lt. F. E. Wilmot, R. N.
Sub-series.																			
St. Johns, Newfoundland	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	29.95	760.7	29.98	761.5	72.0	22.2	84	s.	8.2	3.7	.....	0	1 s	.....	.....	0	0	clear	John Duthie.
Cape Town, C. G. H. Obs'y	29.95	760.7	29.98	761.5	71.0	21.7	73	nw.	14	6.3	.....	0	1	.....	.....	0.035	0.9	.....	The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Velocity. Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Chinese (*Sub-series*).																			
Hankow																			N. Titoushkin.
Zi-Ka-Wei, near Shanghai.	29.63	752.5	29.65	753.1	66.2	19.0	100	s.	5.6	2.5			10 n			0.165	4.2	raining	M. Marc Dechevrens, S.J.
Danish.																			
Copenhagen	29.13	739.8	29.17	741.0	48.4	9.1	93	sse.	18	8			10					raining	Oversergent Fischer.
Fanöe	29.02	737.2	29.04	737.7	48.7	9.3	87	sw.			4		10						Overloerer Lauridsen.
Godthaab, Greenland	29.88	759.0	29.93	760.1	28.2	— 2.1	77	ene.			2		0						S. Kleinschmidt.
Stykkisholm, Iceland	29.71	754.6	29.75	755.7	17.6	— 8.0	85	ne.			8		2						A. O. Thorlacius.
Thorshavn	29.65	753.2	29.69	754.1	36.1	2.3	61	n.	9	4			1C						Overloerer Bergh.
Vestervig	29.00	736.6	29.09	738.9	46.2	7.9	93	ne.			6		10					raining	Loerer Oesterbol.
French.																			
Agen, Normal School	28.90	734.1	29.54	750.2	56.5	13.6	88	sw.			2		10 n		w.	0.547	13.9	raining	M. Labroue, Director.
Alençon, Normal School	28.98	736.2	29.54	750.2	51.4	10.8	68	sw.			2		kn	ne.	ne.	0.063	1.6		M. Nicot, Director.
Arras, Engineer School	29.17	741.0	29.43	747.5	49.1	9.5	63	w.			4		k		w.	0.350	8.9		Capt. Bertrand, Dir.
Avginon, Normal School	29.55	750.5	29.63	752.5	57.6	14.2	78	w.			1		8		s.	0.98	2.5	very cloudy	M. Giraud, Director.
Bar-sur-Seine	28.96	735.5	29.50	749.4	54.0	12.2	55	sw.			2		8		w.	0.720	18.3	very cloudy.	M. Saillard, Director.
Beauvais, Normal School	29.20	741.6	29.46	748.2	52.9	11.6	43	w.			2		5		w.	0.453	11.5	cloudy	M. Frère Eugène Marl.
Besançon, Normal School	28.58	725.8	29.45	747.9	59.5	15.3	56	sw.			1	o	2 kn		ne.	0.150	3.8	slightly cl'dy	M. Gobin, Director.
Bordeaux, Observatory	29.16	740.7	29.42	747.2	56.5	13.6	89	w.			3		1C		w.	0.728	18.5	covered	M. Rayet, Director.
Bourges, Normal School	28.94	735.1	29.56	750.9	52.7	11.5	70	sw.			2		k		sw.	0.020	0.5		M. Postel, Director.
Brest, Naval Observatory	29.34	745.1	29.58	751.2	51.4	10.8	70	n.			2		6		n.	0.433	11.0		M. de Kermaree, Dir.
Caen, Normal School	29.41	747.1	29.48	748.9	52.9	11.6	80	sw.			1		8		sw.	0.272	6.9	very cloudy.	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.09	738.8	29.40	746.7	54.7	12.6	59	wsw.			2		5			0.472	12.0	cloudy	M. Jadot, Director.
Charleville, Normal School.	28.91	734.3	29.41	747.1	53.6	12.0	84	s.			1		2			o	o	¼ covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.13	714.6	29.48	748.9	53.6	12.0	69	sw.			1		10			0.055	1.4	covered	M. Alluard, Director.
Cluny, Normal School	28.67	728.2	29.50	749.2	57.9	14.4	47	sse.			2			ssw.		0.031	0.8		M. de Villemontée, Dir.
Commercy, Normal School.	28.63	727.2	29.48	748.7	50.5	10.3	60	w.			3		8 cn	w.	w.	1.34	34.	very cloudy.	Dr. Coulet, Director.
Gap, Normal School	27.10	688.4	29.58	751.4	55.4	13	50					o	2 k		w.	0.169	4.3		M. Jeanginard, Director.
Gréasque, du. Rhone	28.52	724.3	29.63	752.6	57.2	14.0	60	se.			1		9		se.	o	o		M. Kina, Director.
Grenoble, Normal School	28.74	730.0	29.48	748.8	63.3	17.4	57	n.			1	ck	o	s.		0.299	7.6		M. Ablard, Director.
Guéret, Normal School	27.94	709.7	29.54	750.2	44.6	7	85	sw.			1		n		sw.	0.83	21.		M. Rivoire, Director.
Lamballe, Normal School	29.25	742.9	29.52	749.7	54.5	12.5	49	nne.			1		10		nne.	0.16	4.	covered	M. Olliffrault, Director.
Lescar, Normal School	28.94	735.0	29.50	749.2	62.2	16.8	70	wnw.			4		10			0.55	14.	raining	M. Chauvin, Director.
Lorient, Naval Observatory	29.43	747.4	29.53	750.0	56 3	13.5	60	n.			1		8	w.	se.	0.551	14.0	¾ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.48	723.4	29.50	749.4	60.3	15.7	54	s.			2		10 n		w.	0.024	0.6	covered	M. André, Director.
Mans, Normal School	29.18	741.2	29.48	748.9	52.5	11.4	48	n.			1		8		se.	0.673	17.1	very cloudy	M. Piboen, Director.
Marseille, Observatory	29.39	746.4	29.66	753.3	56.1	13.4	72	w.			1.2		10		nw.	0.272	6.9		M. Stephan, Director.
Montlouis l'Institutenr	24.44	620.7	29.28	743.7	47.3	8.5	75	w.	20.6	9.2			2	sw.					M. Cave, for Dr. Fines.
Montpellier, Normal School	29.49	749.0	29.62	752.4	53.6	12	100	ssw.			2		10			0.138	3.5	covered	M. Galzin, Director.
Nancy, Normal School	28.68	728.4	29.45	747.9	52.9	11.6	77	s.			1	2 ck	o			0.630	16.0	slightly cl'dy	M. Hasse, Director
Nantes, Observatory	29.35	745.6	29.52	749.7	54.5	12.5	63	ene.			0–1	kn	10 n		n.	0.571	14.5		M. Larocque, Director.
Perpignan, Observatory	29.53	750.0	29.64	752.8	57.9	14.4	80	s.	15.0	6.7			10		w.	o	o		Dr. Fines, Director.
Pic-du-Midi, Summit	20.85	529.7			26.2	— 3.2		nw.			2–3		10		nw.	0.378	9.6	snowy	Gen'l de Nansouty, Dir.
Privas, Normal School	28.52	724.4	29.56	750.8	58.6	14.8	53	s.			1		5	s.				raining	M. Tallieu.
Puy de Dôme Obs'y, Summit	24.65	626.1			33.6	0.9	100	sw.			4		10			0.150	3.8	foggy	M. Alluard, Director.
Rochefort, Naval Obs'y	29.47	748.6	29.50	749.4	51.8	11.0	86	sw.			2		10			0.272	6.9	raining	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.22	742.2	29.43	747.6	52.5	11.4	75	w.			1		8		se.	0.75	19.	very cloudy.	M. Mouillot, Director.
Rodez, Normal School	27.50	698.6	29.63	752.6	48.9	9.4	86	w.			3		10			0.346	8.8	raining	M. Serger, Director.
Rouen, Normal School	29.41	747.0	29.46	748 2	51.4	10.8	56	sw.			1		5	w.		0.268	6.8	cloudy	M. Brotier.
Saint Maur, Observatory	29.32	744.7	29.48	748.9	51.1	10.6	61	w.			1		6		w.	0.331	8.4		M. Renou, Director.
Toulouse, Observatory	28.89	733.8	29.60	751.9	57.6	14.2	81	ssw.			1		10	w.		0.705	17.9	raining	M. Baillaud, Director.
Versailles, Observatory	28.99	736.4	29.48	748.9	51.8	11.0	56	nw.			2					0.012	0.3		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.19	741.4	29.48	748.8	50.4	10.2	58	wnw.			2		8		wnw.	0.323	8.2	sprinkling	M. Marié Davy, Director
German.																			
Bamberg	28.59	726.1	29.43	747.4	52.2	11.2	60	wsw.			3	o	7 k		sw.	0.138	3.5	raining	Prof. Dr. Hoh.
Berlin	29.11	739.3	29.28	743.6	04.0	17.8	33	se.			4		8			0.067	1.7		Prof. Dr. Arndt.
Breslau	28.97	735.7	29.49	749.0	60.8	16.0	55	s.			2		10					sprinkling	Royal University Obs'y.
Carlsruhe	29.04	737.6	29.47	748.5	51.8	11.0	70	sw.			5		9	sw.		0.091	2.3	raining	Albert Senz.
Cassel	28.58	725.8	29.29	743.9	52.5	11.4	58	s.			9		6	s.		0.016	0.4		Dr. H. Möll.
Frankfort on the Main	29.01	736.9	29.37	746.0	54.1	12.3	49	wsw.			3		7			0.335	8.5		Physical Society.
Friedrichshafen	28.68	713.2	29.47	748.6	58.3	14.6	73	sw.			3		7	s.		0.776	19.7		Wilhelm, Chief Tel.
Hamburg	29.06	738.1	29.15	740.5	47.8	8.8	76	sw.			8		10			0.114	2.9	raining	E. Preller.
Kiel	29.10	739.1	29.11	739.5	48.0	8.9	75	sw.			6		10			0.260	6.6		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	28.95	735.2	29.35	745.6	58.5	14.7	48	sw.			6		6	sw.		0.055	1.4		H. Leppig, Asst.
Magdeburg	29.09	738.8	29.27	743.4	60.3	15.7	30	wsw.			6	c	5 k		wsw.	0.020	0.5		Dr. Assmann.
Memel	29.53	750.1	29.58	751.3	59.0	15.0	52	s.			2	3 ck	o						Iassermann.
Munich	27.70	703.5	29 53	750.0	55.9	13.3	45	nw.			1		9	w.		o	o		Central Station.
Neufahrwasser	29.44	747.8	29.46	748.2	02.2	16.8	49	s.			3		9			0.079	2.0		A. Lothes.
Neustadt, Palatinate	28.89	733.9	29.41	747.0	54.3	12.4	54	w.			5		5	w.		0.488	12.4		Dicknether.
Stuttgart	28.53	724.6	29.41	746.9	54.0	12.2	63	w.			1		7	w.		0.150	3.8		Prof. Dr. Schoder.
Wustrow	29.18	741.2	29.21	741.9	55.2	12.9	68	s.			4	o	8 ks			0.165	4.2		Profs. Brandes & Reimer.
Greek.																			
Athens	29.47	748.5	29.86	758.4	65.1	18.4		w.			1.5	7 k				0.051	1.3		Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.78	756.3	29.83	757.6	84.7	29.3	76	sw.			2C.0		0			0	0	misty	
Deesa	29.23	742.5	29.68	754.0	104.9	40.5	21	ssw.	10.1	4.5			0			0	0	blue sky	
Bombay	29.75	755.6	29.78	756.5	80.6	30.3	70	w.	12.0	5.4			1	w.		0	0	d. clouds	
Poona, Yarrowda.	27.89	708.3	29.66	753.4	100.8	38.2	5	se.	18.0	8.0			2		w.	0	0	d. clouds	
Belgaum	27.27	692.6	29.78	756.8	80.3	26.8	66	sw.	12.0	5.4			5	se.		0	0	misty	
Lahore	28.94	735.2	29.66	753.3	98.2	36.8	11	calm	1.5	0.7			0			0	0	blue sky	
Roorkee	28.80	731.4	29.66	753.4	94.2	34.6	9	nw.	1.7	0.8			0			0	0	blue sky	
Agra	29.14	740.0	29.68	753.8	100.6	38.1	10	nw.	4.2	1.9			0			0	0		
Nagpur	28.66	728.0	29.66	753.4	102.3	39.1	8	nnw.	3.5	1.6			0			0	0	blue sky	
Jubbulpore	28.39	721.1	29.69	754 2	99.9	37.7	5	n.	2.2	1.0			0			0	0	blue sky	
Lucknow	29.29	743.9	29.65	753.1	99.4	37.4	9	nw.	2.9	1.3			0			0	0	blue sky	
Allahabad	29.36	745.6	29.66	753.2	99.8	37.7	6	nnw.	2.2	1.0			0			0	0	blue sky	
Patna	29.52	749.7	29.70	754.3	95.7	35.4	17	n.	3.0	1.3			0			0	0	blue sky	
Hazaribagh	27.72	704.2	29.68	753.9	89.8	32.1	26	n.	0.7	3.0			0			0	0	blue sky	
Cuttack	29.63	752.6	29.71	754.6	97.3	36.3	27	s.	3.0	1.3			0			0	0	blue sky	
Calcutta, Alipore	29.68	753.7	29.70	754.3	92.8	33.8	32	ssw.	8.0	3.6			0			0	0	blue sky	
Dhubri	29.57	751.1	29.69	754.1	88.0	31.1	52	calm	3.0	1.3			0			0	0	blue sky	
Chittagong	29.70	754.3	29.78	756.5	84.7	29.3	76	sw.	4.7	2.1			2			0	0	blue sky	
Sibsagar	29.44	747.8	29.77	756.2	82.4	28.0	73	ne.	2.1	0.9			2			0.50	12.7	blue sky	
Jeypore	28.27	718.0	29.65	753 0	101.4	38.6	11	nw.	4.5	2.0			1			0	0	blue sky	
Zanzibar, Africa	29.92	760.0			83.0	28.7	77	sw.	5.7	2.5			7		se.	4.18	106.2	d. clouds	
Bellary	28.26	717.8			99.2	37.3	18	e.	4.6	2.1		8 ck	o	sw.		o	o	d. clouds	
Trichinopoly	29.52	749.8			90.5	32.5	42	sse.	2	0.9			5			o	o	d. clouds	
Italian.																			
Udine	29.28	743.7	29.69	754.0	53.1	11.7	85	ne.	2.5	1.1			10			0.150	3.8		Prof. Giovanni Clodig.
Milan	29.09	738.9	29.60	751.9	53.8	12.1	82	se.	11.2	5.0			10	se.		0.228	5.8		Prof. Schiaparelli.
Padua	29.54	750.4	29.65	753.2	52.3	11.3	87	nne.	12.5	5.6			10	ne.		0.091	2.3		Prof. Dott. Lorenzoni.
Moncalieri	28.67	728.1	29.56	750.9	58.1	14.5	65	nw.	4.3	1.9			9	ne.		0.35	0.9		Prof. P. F. Denza.
Genoa	29.41	747.1	29.60	751.9	59.5	15.3	82	sw.	6.3	2.8			10	sw.		0.134	3.4		Prof. G. M. Garibaldi.
Mondovi	27.67	702.7	29.63	752.5	57.4	14.1	57	w.			2		9			o	o		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
ITALIAN.—Continued.																			
Pesaro	29.57	751.1	29.62	752.3	62.6	17.0	71	s.	5.6	2.5	.....	.....	10	se.	.....	0	0	....	Prof. Luigi Guidi.
Florence	29.39	746.5	29.64	752.9	63.3	17.4	64	s.	.....	.....	4	.....	10	.....	.....	0.031	0.8	.....	Prof. Costantino Pitter.
Leghorn	29.51	749.6	29.60	751.7	61.9	16.6	89	s.	7.4	3.3	.....	.....	10	s.	.....	0.043	1.1	.....	Prof. P. Monte.
Rome	29.58	751.2	29.75	755.6	64.4	18.0	64	s.	21.0	9.4	.....	.....	10	.....	.....	0	0	.....	Prof. P. S. Ferrari.
Lecce	29.56	750.9	29.81	757.2	69.3	20.7	43	sw.	11.2	5.0	.....	.....	2	.....	.....	0	0	.....	Prof. C. de Giorgi.
Cosenza	29.00	736.5	29.88	758.9	65.1	18.4	75	wsw.	3.1	1.4	.....	.....	8	s.	.....	0	0	.....	Prof. D. Conti.
Cagliari	29.74	755.4	29.93	760.3	68.4	20.2	55	se.	.....	.....	4	.....	9	.....	.....	0	0	.....	Prof. A. Pacinotti.
Palermo	29.63	752.7	29.88	759.0	67.8	19.9	47	sw.	0.7	0.3	.....	.....	10	.....	.....	0	0	....	Prof. G. Ciaccíatore.
Syracuse	29.84	757.8	29.88	758.9	67.3	19.6	48	wsw.	9.8	4.4	.....	.....	7	sw.	.....	0.157	4.0	....	Prof. Vincenzo Gulliano.
Sub-series.																			
Naples, S. R	29.30	744.1	29.82	757.3	59.9	15.5	84	s.	4.9	2.2	.....	.....	10	nw.	.....	0.618	15.7	....	Prof. T. Brioschi.
Stelvio	21.74	552.2	.....	.....	32.5	0.3	85	w.	.....	.....	4	.....	10	.....	.....	0.098	2.5	covered	Prof. P. F. Denza.
Valdobbia	21.78	553.3	.....	.....	38.8	3.8	66	n.	.....	.....	2	.....	10	.....	.....	0.047	1.2	covered	Prof. P. F. Denza.
JAPANESE.																			
Aomori	30.01	762.2	30.04	763.0	50.0	10.0	80	n.	4.4	2.0	.....	0	3 s	....	....	0	0	.....	K. Ogawa.
Hakodate	30.00	762.0	30.01	762.2	49.0	9.4	89	e.	12.0	5.4	.....	.....	10	.....	.....	0	0	covered	
Hiroshima, I. M. Obs'y	29.96	761.0	29.97	761.2	65.0	18.3	75	wsw.	0.5	0.2	.....	ck	10 s	.....	.....	0.524	13.3	overcast	K. Sasaki.
Kanazawa	29.93	760.2	30.03	762.7	55.2	12.9	79	se.	4.5	2.0	.....	0;cs	0	.....	.....	0	0	fair	S. Endo.
Kioto	29.86	758.4	30.03	762.7	56.0	13.3	70	nw.	2.9	1.3	.....	3 cs	0	.....	.....	0	0	fair	M. Tojima.
Kochi	30.04	763.0	30.06	763.5	67.0	19.4	79	e.	8.9	4.0	.....	.....	10ks;s	.....	sw.	0.405	10.3	cloudy	
Nagasaki, I. M. Obs'y	29.80	756.9	30.00	762.0	66.7	19.3	70	s.	6.0	2.7	.....	.....	10 n	.....	.....	0.800	20.3	raining	S. Takehayashi.
Niigata	30.01	762.2	30.05	763.3	50.5	10.3	95	nne.	1.1	0.5	.....	7ck;cs	0	nw.	.....	0	0	fair	
Nobiru	30.03	762.7	30.04	763.0	50.9	10.5	86	n.	8.0	3.6	.....	0	0	.....	.....	0	0	clear	H. Midzushima.
Sapporo	.....	.....	.....	.....	43.9	6.6	90	calm	0	0	.....	.....	10	.....	.....	0	0	covered	
Tokei Obs'y, Yeddo	29.95	760.7	30.02	762.5	59.1	15.1	69	s.	5.8	2.6	.....	5 c	0	.....	.....	0	0	fair	The Staff.
Wakayama	29.98	761.5	30.03	762.7	64.8	18.2	73	sse.	1.4	0.6	.....	10 ck	0	.....	.....	0.188	4.8	cloudy	Y. Kuwamura.
MAURITIUS.																			
Mauritius Observatory	29.84	757.9	30.03	762.7	78.7	25.9	70	ese.	15.0	6.7	.....	0	4 k	.....	se.	0	0	fair	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.69	601.7	29.91	759.7	66.0	18.9	52	ese.	.....	.....	1	.....	fg	.....	.....	0	0	foggy	Vicente Fernandez.
Leon	24.38?	627.2?	30.03	762.7	59.4	15.2	65	n.	.....	.....	.....	0	0	.....	.....	0	0	.....	Prof. M. Leal.
Mazatlan	29.66	753.2	29.92	759.9	64.5	18.1	92	e.	1.6	0.8	.....	2 cs	0	.....	.....	0	0	light fog	F. Quijano, C. E.
Mexico, Central Obs'y	23.09	586 4	30.14	765.5	56.3	13.5	49	calm	0	0	.....	0	0	.....	.....	0	0	foggy	The Staff.
Morelia	24.31	617.5	30.42	772.7	61.9	16.6	78	se.	.....	.....	2	0	0	.....	.....	0	0	clear	M. Tena, M. D.
Pabellon, Aguascalientes	23.95	608.2	29.92	759.9	61.3	16.3	34	w.	.....	.....	1	0	0	.....	.....	0	0	foggy	M. V. de Leon, M. E.
Puebla, Catholic Institute	23.39	594.2	30.17	766.2	52.2	11.2	80	calm	0	0	.....	0	0	.....	.....	0	0	clear	Prof. P. Spina.
San Luis Potosi	24.20	615.7	30.14	765.6	66.2	19.0	45	e.	.....	.....	1	3	0	w.	.....	0	0	foggy	G. Barroeta, M. D.
Zacatecas	22.55	572.8	30.15	765.8	58.8	14.8	41	.....	.....	.....	.....	0	0	.....	.....	0	0	clear	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.30	744.2	29.30	744.2	50.4	10.2	.....	w.	.....	.....	5	.....	.....	.....	.....	0.433	11.0	.....	
Groningen	28.94	735.0	28.99	736.4	47.8	8.8	.....	wsw.	.....	.....	1	.....	.....	.....	.....	0.453	11.5	.....	
Helder	29.08	738.6	29.08	738.9	43.9	6.6	.....	wnw.	.....	.....	6	.....	.....	.....	.....	0.177	4.5	.....	
Hellevoetsluis	29.23	742.4	29.23	742.4	46.2	7.9	91	wsw.	.....	.....	4	.....	.....	.....	.....	0.433	11.0	.....	
Utrecht	29.18	741.2	29.23	742.4	43.7	6.5	91	wsw.	.....	.....	5	.....	10	.....	.....	0.441	11.2	raining	H. van der Brink.
NORWEGIAN.																			
Bergen	29.19	741.5	29.26	743.1	46.4	8.0	83	nnw.	2	1	.....	.....	10	.....	.....	0.098	2.5	raining	
Brono	29.25	742.9	29.29	743.9	41.4	5.2	75	calm	0	0	.....	.....	10	.....	.....	0	0	.....	
Christiania	29.13	740.0	29.28	743.7	49.3	9.6	76	e.	4	2	.....	.....	10	.....	.....	0.067	1.7	.....	
Gjæsvær	29.37	746.0	29.39	746.6	33.8	1.0	.....	e.	.....	.....	4	.....	10	.....	.....	.....	.....	.....	
Lodingen	29.20	741.6	29.24	742.8	37.6	3.1	92	calm	.....	.....	0	.....	10	.....	.....	.....	.....	foggy	
PORTUGUESE.																			
Angra, Azores	.....	.....	.....	.....	67.5	19.7	70	w.	16.8	7.5	.....	.....	4	.....	.....	0	0	.....	Dr. J. A. Sampaio.
Campo Major	29.00	736.6	30.00	762.0	59.9	15.5	88	sw.	9.8	4.4	.....	.....	10	.....	.....	0	0	.....	Dr. A. M. R. dos Santos.
Funchal, Maderia	30.22	767.7	30.32	770.0	65.7	18.7	71	wsw.	.....	.....	.....	.....	0	.....	.....	0	0	.....	Capt. D. A. de Cunha.
Lisbon, Observatory	29.76	755.8	30.11	764.9	61.2	16.2	85	w.	17.4	7.8	.....	.....	10	.....	.....	0.039	1.0	light rain	The Staff.
Ponta Delgada, Azores	30.36	771.2	30.43	773.0	68.4	20.2	65	wnw.	10.5	4.7	.....	.....	4	.....	.....	0	0	.....	
Saint Paul de Loando	29.73	755.2	29.93	760.3	80.1	26.7	85	nw.	0.7	0.3	.....	.....	1	e.	.....	0	0	.....	
Serra da Estrella	25.68	636.9	29.84	757.8	42.1	5.6	99	nw.	62.2	27 8	.....	.....	10	.....	.....	7.362	187.0	foggy	
RUSSIAN.																			
Akmolinski	28.88	733.6	29.97	761.2	45.3	7.4	65	e.	13	6	.....	.....	9 ks	.....	.....	0	0	.....	Major K. Lasarew.
Archangel	29.71	754.5	29.72	755.0	46.9	8.3	54	s.	13	6	.....	2 cs	0	....	....	0	0	.....	Capt. Ssellwerstow.
Astrakhan	29.83	757.7	29.75	755.6	60.3	15.7	32	wnw.	22	10	.....	0	8 ks	.....	.....	0	0	.....	Capt. Wisganow.
Barnaul	29.75	755.6	30.26	768.7	42.4	5.8	30	n.	9	4	.....	.....	0	.....	.....	0	0	.....	Meteorological Obs'y.
Dorpat	29.35	745.4	29.58	751.4	61.7	10.5	56	sw.	9	4	.....	0	8 k	.....	.....	0	0	.....	Observatory.
Ekaterinburg	29.15	740.4	30.13	765.3	42.8	6.0	52	ese.	18	8	.....	.....	10	.....	.....	0	0	light clouds	Meteorological Obs'y.
Kasan	29.53	750.1	29.80	757.0	46.8	8.2	54	ne	7	3	.....	.....	10	.....	.....	0	0	.....	Observatory.
Kertch	29.79	756.7	29.81	757.2	53.8	12.1	78	se.	4	2	.....	.....	10 n	.....	.....	0.016	0.4	.....	Lagorio & Sastyres.
Kieff	29.01	736.9	29.03	752.7	57.6	14.2	55	ene.	9	4	.....	10ck;cs	0	....	....	0.012	0.3	.....	Observatory.
Lugan	29.55	750.5	29.75	755.6	55.6	13.1	46	nw.	9	4	.....	.....	8	.....	.....	0.008	0.2	.....	Meteorological Obs'y.
Moscow	29.30	744.2	29.77	756.2	51.8	11.0	52	s.	4	2	.....	0	7 ks	.....	.....	0	0	.. ..	Meteorological Obs'y.
Nikolaiev	29.74	755.5	29.82	757.3	54.0	12.2	80	s.	4	2	.....	cs	6 n	.....	.....	0.035	0.9	...	Capt. Kurdakow.
Nikolaievsk, on the Amoor	29.78	756.4	29.87	758.0	34.9	1.6	66	calm	0	0	.....	.....	0	.....	.....	0	0	.....	Lieut. Iwanow.
Pekin, China	29.71	754.6	29.85	758.2	64.9	18.3	58	se.	4	2	.....	0	7 n	.....	.....	0	0	.....	Physical Observatory
St. Petersburg	29.64	752.9	29.66	753.3	46.9	8.3	82	sse.	16	7	.....	.....	10 n	.....	.....	0.224	5.7	light rain	Central Physical Obs'y
Ssemipalatinsk	29.48	748.7	30.14	765.5	53.2	11.8	30	nne.	18	8	.....	8 c	0	....	....	0	0	light clouds	Major Lasaren.
Tashkend, Laboratory	28.10	713.8	29.86	750.9	84.2	29.0	66	nw.	4	2	.....	.....	10	.....	.....	0	0	light clouds	Teich, A. M.
Tiflis	28.47	723.2	29.87	758.8	58.3	14.6	38	nw.	31	14	.....	0	4 k	.....	.....	0	0	.....	Physical Observatory
Vladivostok	29.98	761.6	30.05	763.3	39.6	4.2	89	sw.	4	2	.....	0	5 n	.....	.....	0	0	.....	
Warsaw	29.08	738.5	29.48	748.8	68.7	20.4	31	se.	16	7	.....	c	7 ks	.....	.....	.....	.....	.....	Astronomical Obs'y
Wilna	29.21	741.9	29.62	752.3	62.1	16.7	49	s.	2	1	.....	.....	2	.....	.....	0	0	.....	Berg, Assistant.
Yeniseisk	29.98	761.5	30.28	769.1	30.9	— 0.6	64	nw.	4	2	.....	.....	2	.....	.....	.....	.....	snowing	M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	29.52	749.8	29.62	752.4	67.1	19.5	66	sw.	2.9	1.3	.....	.....	6	.....	.....	0	0	.....	Antonio Rave, Director.
Bilbao, Met. Obs'y	29.58	751.4	29.64	752.9	57.4	14.1	80	nw.	3.1	1.4	.....	.....	10	.....	.....	0.402	10.2	covered	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	26.72	678.6	29.58	751.4	61.5	16.4	46	sw.	16.1	7.2	.....	.....	8	.....	.....	0.043	1.1	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27.59	700.8	29.78	756.5	61.2	16.2	73	sw.	32.9	14.7	.....	.....	10	.....	.....	inap.	inap.	covered	The Staff.
Murcia, Met. Obs'y	29.67	753.5	29.81	757.2	80.6	27.0	44	ese.	4.9	2.2	.....	5	4	nw.	.....	0	0	almost cov'd	Olayo Diaz, Director.
Santiago, Met. Obs'y	28.92	734.5	29.82	757.4	54.0	12.2	91	w.	11.2	5.0	.....	.....	10	.....	.....	0.606	15.4	raining	R. Gil Vallanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I	29.99	761.7	30.05	763.3	75.8	24.3	79	e.	5.3	2.4	.....	0	1 k	....	....	0	0	fair	Benito Vines, S. J.
Manilla, Philippine Islands	29.86	758.5	29.92	760.0	83.3	28.5	75	ese.	10.3	4.6	.....	0	1ck	.....	.....	0	0	clear	F. Faura, S. J.
San Fernando, Naval Obs'y	30.09	764.4	30.19	766.9	61.5	16.4	79	wsw.	3.6	1.6	.....	.....	10	.....	w.	0	0	.....	Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	29.91	759.6	30.00	761.9	79.5	26.4	77	s.	8.5	3.8	.....	0	2 k	.....	s.	0	0	clear	Manuel Maeu.
Tuguegarao, Philippine Id's	29.79	756.7	29.92	760.0	81.0	27.2	77	nw.	3.6	1.6	.....	0	4 k	.....	ne.	0	0	cloudy	José L. Yrastorza.
SWEDISH																			
Haparanda	29.36	745.8	29.40	746.8	38.1	3.4	100	se.	.....	.....	2	.....	10	.....	.....	0.209	5.3	raining	
Umea	29.31	744.4	29.36	745.7	36.3	2.4	100	sw.	.....	.....	2	.....	10	.....	.....	0.067	1.7	.....	
Hernosand	29.26	743.3	29.32	744.6	39.6	4.2	87	s.	.....	.....	2	.....	10	.....	.....	0	0	.....	
Stockholm	29.23	742.5	29.41	747.0	53.6	12.0	52	ssw.	.....	.....	4	.....	1	.....	.....	0	0	.....	
Wisby	29.37	746.0	29.43	747.5	57.6	14.2	53	s.	.....	.....	6	.....	0	.....	.....	0	0	.....	
Sub-series.																			
Upsala	29.28	743.7	29.37	745.9	51.4	10.8	70	sw.	11.0	4.9	.....	.....	10	.....	sw.	0.106	2.7	....	S. G. Fineman.
SWISS.																			
Geneva	28.12	714.3	29.53	750.0	57.0	13.9	51	ssw.	.....	.....	4	.....	.....	.....	.....	0.634	16.1	cloudy	The Observatory

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
TURKISH.																			
Constantinople	.....	.....	29.76	755.8	76.3	24.6	26	sw.	10	4.5	.....	.....	3	.....	sw.	0	0	.....	The Observatory.
Valona	.....	.....	29.93	760.3	68.4	20.2	.....	sw.	.....	.....	1	.....	2	.....	.....	0	0	slightly cl'dy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	30.03	762.7	70.2	21.2	69	wsw.	.....	.....	3	0	0	.....	.....	0	0	.....	Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	30.16	766.1	30.24	768.1	42.5	5.8	58	nw.	2	0.9	.....	0	hz.	.....	.....	0	0	clear	J. C. Barnes.
Alpena, Michigan	29.50	749.3	30.19	766.8	36	2.2	53	e.	5	2.2	.....	0	0	.....	.....	0	0	clear	Jas. J. Fitzgerald.
Atlanta, Georgia	28.97	735.8	30.15	765.8	58.0	14.4	78	se.	5	2.2	.....	2 k	0	calm	.....	0	0	clear	H. Hall.
Atlantic City, New Jersey	30.20	767.1	30.21	767.3	46	7.8	76	s.	8	3.6	.....	.....	10 s	.....	.....	0	0	cloudy	Jas. M. Watson.
Augusta, Georgia	30.00	762.0	30.19	766.8	56	13.3	77	calm	0	0	.....	6 k	0	nw.	.....	0	0	fair	John Healy.
Baltimore, Maryland	30.12	765.0	30.17	766.3	49	9.4	77	s.	7	3.1	.....	.....	10 s	.....	se.	0	0	cloudy	Robert Seyboth.
Barnegat, New Jersey	30.21	767.3	30.23	767.8	45.0	7.2	76	s.	11	4.9	.....	.....	10 s	.....	sw.	0	0	cloudy	Chas. F. Merritt.
Bismarck, Dakota	27.94	709.7	29.81	757.2	40	4.4	82	sw.	14	6.3	.....	.....	10 k	.....	w.	0.43	10.9	cloudy	Cyrus Cramer.
Boise City, Idaho	27.34	694.4	30.18	766.6	37	2.8	72	ne.	2	0.9	.....	.....	10 s	.....	calm	0	0	cloudy	B. E. Light.
Boston, Massachusetts	30.08	764.0	30.24	768.1	42.0	5.6	65	sw.	8	3.6	.....	0	0	.....	.....	0	0	clear	O. B. Cole.
Brownsville, Texas	29.81	757.2	29.86	758.4	76	24.4	90	se.	6	2.7	.....	hz.	0	.....	.....	0	0	dense haze	J. C. Galloway.
Buffalo, New York	29.36	745.7	30.13	765.3	38.2	3.4	44	ne.	4	1.8	.....	7 c;cs	0	w.	.....	0	0	fair	Wm. Finn.
Burlington, Vermont	29.92	760.0	30.22	767.6	37.0	2.8	51	calm	0	0	.....	0	0	.....	.....	0	0	clear	G. C. Schaeffer.
Cairo, Illinois	29.50	749.3	29.92	760.0	66.7	19.3	72	sw.	12	5.4	.....	3 c	0	w.	.....	0	0	clear	W. H. Ray.
Campo, California	27.41	696.2	29.99	761.7	35.5	1.9	82	s.	3	1.3	.....	0	0	.....	.....	0	0	clear	W. H. Clendenon.
Camp Thomas, Arizona	27.22	691.4	29.94	760.5	45	7.2	63	calm	.....	.....	0	0	0	.....	.....	0	0	clear	J. T. Fitzgerald.
Cape Henry, Virginia	30.17	766.3	30.19	766.8	52	11.1	80	se.	12	5.4	.....	0	9 s	.....	.....	0	0	cloudy	J. E. Lanouette.
Cape May, New Jersey	30.18	766.6	30.21	767.3	46	7.8	76	se.	10	4.5	.....	.....	10 n	.....	se.	inap.	inap.	light rain	W. Bolten.
Cedar Keys, Florida	30.12	765.0	30.14	765.5	65	18.3	78	ne.	9	4.0	.....	0	0	.....	.....	0	0	clear	F. W. Mixer.
Champaign, Illinois	28.96	735.6	29.80	756.9	53.0	11.7	77	ne.	14	6.3	.....	.....	10 n	.....	ne.	0.01	0.3	light rain	L. A. Welsh.
Charleston, S. Carolina	30.12	765.0	30.18	766.6	59	15.0	81	n.	5	2.2	.....	0	0	.....	.....	0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.28	743.7	30.14	765.5	54.0	12.2	74	s.	5	2.2	.....	10 cs	sk.	sw.	.....	0	0	cloudy	D. O. Donoghue.
Chattanooga, Tennessee	29.27	743.4	30.10	764.5	61.0	16.1	78	s.	10	4.5	.....	6 k	3 ks	sw.	sw.	0	0	cloudy	B. L. Goulding.
Cheyenne, Wyoming	24.04	610.6	30.04	763.0	34.4	1.3	43	sw.	6	2.7	.....	1 ck	0	.....	.....	0	0	clear	E. McGovern.
Chicago, Illinois	29.20	741.7	29.93	760.2	41.6	5.3	87	e.	18	8.0	.....	.....	10 n	.....	.....	0.81	20.6	light rain	J. Mitchell.
Chincoteague, Virginia	30.17	766.3	30.19	766.8	47	8.3	68	se.	15	6.7	.....	.....	10 s	.....	.....	0	0	threatening	V. P. Temple.
Cincinnati, Ohio	29.29	744.0	29.96	761.0	52.5	11.4	56	e.	8	3.6	.....	.....	10 s	.....	s.	0	0	cloudy	R. B. Watkins.
Cleveland, Ohio	29.33	745.0	30.09	764.3	40	4.4	53	e.	5	2.2	.....	10 cs	0	.....	.....	0	0	cloudy	J. B. Newlin.
Coleman City, Texas	28.07	713.0	29.89	759.2	69	20.6	90	s.	4	1.8	.....	0	3 s	.....	.....	0	0	clear	L. Dorman.
Columbus, Ohio	29.14	740.1	30.01	762.2	44	6.7	83	ne.	6	2.7	.....	.....	10 n	.....	sw.	0.09	2.3	thund'r st'm.	D. Cuthbertson.
Concho, Texas	27.96	710.2	29.90	759.4	70	21.1	84	sw.	11	4.9	.....	0	0	.....	.....	0	0	clear	W. W. McConihe.
Davenport, Iowa	29.22	742.2	29.89	759.2	48	8.9	86	ne.	6	2.7	.....	.....	10 s	.....	ne.	0.14	3.6	cloudy	R. R. Martin.
Dayton, Washington T'y	28.43	722.1	30.18	766.6	38.8	3.8	80	sw.	1	0.4	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	H. Clifford.
Deadwood, Dakota	25.34	643.6	30.02	762.5	34	1.1	50	sw.	16	7.2	.....	0	0	.....	.....	0	0	clear	G. W. Scott.
Decatur, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	D. J. Carr.
Delaware Breakwater, Del	30.19	766.8	30.21	767.3	47	8.3	68	se.	19	8.5	.....	.....	10 s	.....	sw	inap.	inap.	cloudy	A. Schneider.
Denison, Texas	29.03	737.3	29.83	757.7	71.3	21.8	84	s.	13	5.8	.....	.....	10 s	.....	s.	0	0	cloudy	J. McGlone.
Denver, Colorado	24.76	628.9	30.04	763.0	39.5	4.2	57	se.	12	5.4	.....	0	0	.....	.....	0	0	clear	F. M. Neal.
Des Moines, Iowa	29.00	736.6	29.93	760.2	48	8.9	86	n.	6	2.7	.....	.....	10 s	.....	n.	0.30	7.6	cloudy	F. W. Conrad.
Detroit, Michigan	29.36	745.7	30.08	764.0	41.5	5.3	73	ne.	7	3.1	.....	5 cs	5 s	calm	nw.	0	0	cloudy	C. F. R. Wappenhans.
Dodge City, Kansas	27.40	695.9	30.04	763.0	46.0	7.8	63	n.	12	5.4	.....	0	0	.....	.....	0	0	clear	E. A. Thomas.
Dubuque, Iowa	29.19	741.4	29.92	760.0	42.5	5.8	79	e.	6	2.7	.....	.....	10 n	.....	se.	0.36	9.1	light rain	J. Harvey Smith.
Duluth, Minnesota	29.33	745.0	30.05	763.3	37	2.8	61	ne.	20	8.9	.....	.....	10 s	.....	ne.	0	0	cloudy	N. B. Conger.
Eagle Pass, Texas	29.09	738.9	29.90	759.4	78.0	25.6	76	se.	5	2.2	.....	.....	10 s	.....	.....	0	0	cloudy	F. Belford.
Eagle Rock, Idaho	25.41	645.4	30.13	765.3	26	— 3.3	80	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. M. Clifford.
Eastport, Maine	30.17	766.3	30.24	768.1	37.5	3.1	82	e.	4	1.8	.....	2 k	4 s	se.	s.	0	0	fair	J. H. Melton.
El Paso, Texas	26.22	666.0	29.96	761.0	58	14.4	20	nw.	12	5.4	.....	0	0	.....	.....	0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.34	745.2	30.09	764.3	42	5.6	58	ne.	6	2.7	.....	8 ck	0	nw.	.....	0	0	cloudy	R. H. Paxton.
Escanaba, Michigan	29.45	748.0	30.14	765.5	35	1.7	64	n.	5	2.2	.....	3 cs	0	nw.	.....	0	0	clear	C. Dill.
Florence, Arizona	28.42	721.9	29.92	760.0	48.3	9.1	49	w.	2	0.9	.....	0	0	.....	.....	0	0	clear	R. R. Herman.
Fort Apache, Arizona	25.06	636.5	29.98	761.5	34	1.1	66	ne.	3	1.3	.....	0	0	.....	.....	0	0	clear	W. C. Barnes.
Fort Assinnaboine, Montana	27.15	689.6	30.05	763.3	35	1.7	72	w.	26	11.6	.....	.....	10 s	.....	w.	2.02	51.3	cloudy	B. O. Lenoir.
Fort Bennett, Dakota	28.36	720.3	30.00	762.0	43	6.1	60	sw.	8	3.6	.....	0	0	.....	.....	0.12	3.0	clear	T. Gibson.
Fort Benton, Montana	27.15	689.6	30.01	762.2	35	1.7	56	sw.	20	8.9	.....	6 ck	0	.....	.....	0.05	1.3	fair	S. Wheaton.
Fort Buford, Dakota	27.81	706.4	29.88	758.9	35	1.7	89	w.	20	8.9	.....	.....	10 s	.....	calm	0.03	0.8	cloudy	A. H. Bell.
Fort Custer, Montana	26.88	682.7	30.06	763.5	43	6.1	39	w.	2	0.9	.....	0	0	.....	.....	0	0	clear	V. Verge.
Fort Davis, Texas	25.11	637.8	29.90	759.4	55	12.8	34	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. Williams.
Fort Elliott, Texas	27.14	689.3	29.92	760.0	50	10.0	59	nw.	28	12.5	.....	0	0	.....	.....	0	0	clear	W. J. Cundall.
Fort Gibson, Indian T'y	29.25	742.9	29.83	757.7	72.9	22.7	82	s.	8	3.6	.....	.....	10 s	.....	sw.	0	0	cloudy	J. B. Campbell.
Fort Grant, Arizona	25.23	640.8	29.96	761.0	50	10.0	28	ne.	4	1.8	.....	0	0	.....	.....	0	0	clear	T. J. Mackowan.
Fort Keogh, Montana	27.43	696.7	29.97	761.2	40	4.4	59	w.	40	17.9	.....	8 c	0	w.	.....	0	0	cloudy	W. B. Stockman.
Fort Macon, North Carolina	30.17	766.3	30.18	766.6	59	15.0	93	e.	6	2.7	.....	hz.	0	calm	.....	0	0	clear	L. Leonardy.
Fort McKavett, Texas	27.66	702.6	29.92	760.0	68	20.0	53	s.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. E. Thatcher.
Fort Missoula, Montana	26.88	682.7	30.18	766.6	25	— 3.9	88	s.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. H. Jones.
Fort St. Michaels, Alaska	30.20	767.1	30.24	768.1	28	— 2.2	100	s.	8	3.6	.....	0	8 s	.....	s.	0	0	fair	A. P. Leavitt.
Fort Shaw, Montana	26.42	671.1	30.09	764.3	33	0.6	54	w.	18	8.0	.....	0	0	.....	.....	0	0	clear	A. L. Mathews.
Fort Sill, Indian Territory	28.53	724.6	29.77	756.1	64	17.8	93	s.	11	4.9	.....	0	fg.	.....	.....	0	0	clear	T. Cleary.
Fort Stevenson, Dakota	27.81	706.4	29.71	754.6	40	4.4	82	w.	16	7.2	.....	.....	10 ks	.....	w.	0.42	10.7	cloudy	W. Burrows
Fort Verde, Arizona	.....	.....	.....	.....	44	6.7	34	sw.	.....	.....	1	0	0	.....	.....	0	0	clear	D. Brooks.
Fort Washakie, Wyoming	24.52	622.8	.....	.....	20.1	— 6.6	53	sw.	3	1.3	.....	0	0	.....	.....	0	0	clear	T. M. Ambler.
Fredericksburg, Texas	28.17	715.5	29.89	759.2	70	21.1	94	sw.	7	3.1	.....	5 k	0	sw.	.....	0	0	fair	H. S. Miles.
Galveston, Texas	29.90	759.4	29.94	760.5	75	23.9	90	s.	9	4.0	.....	.....	10 ks	.....	sw.	0	0	cloudy	E. O'C. Machnerney.
Grand Haven, Michigan	29.36	745.7	30.04	763.0	40.5	4.7	40	ne.	16	7.2	.....	.....	10 s	.....	.....	0	0	cloudy	W. A. Reid.
Hatteras, North Carolina	30.16	766.1	30.18	766.6	58	14.4	87	e.	14	6.3	.....	3 c	hz.	.....	.....	0	0	clear	R. M. Crawford.
Helena, Montana	25.87	657.1	30.13	765.3	32	0.0	62	w.	6	2.7	.....	0	0	.....	.....	0	0	clear	N. C. Smith.
Henrietta, Texas	28.84	732.5	29.87	758.7	73.0	22.8	76	s.	13	5.8	.....	0	0	.....	.....	0	0	clear	J. W. Byram.
Huron, Dakota	28.53	724.6	29.98	761.5	38.8	3.8	76	w.	8	3.6	.....	0	0	.....	.....	0.10	2.5	clear	S. W. Glenn.
Indianapolis, Indiana	29.04	737.6	29.86	758.4	50	10.0	72	e.	7	3.1	.....	9 cs	hz.	calm	calm	0	0	cloudy	O. Schutze
Indianola, Texas	29.88	758.9	29.92	760.0	75.5	24.2	90	s.	8	3.6	.....	hz	5 ks	.....	s'w.	0	0	fair	I. A. Reed.
Jacksboro, Texas	28.76	730.5	29.94	760.5	70	21.1	84	sw.	12	5.4	.....	0	2 ks	.....	s.	0	0	clear	J. P. Sherry.
Jacksonville, Florida	30.12	765.0	30.16	766.1	62	16.7	79	ne.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. W. Smith.
Keokuk, Iowa	29.12	739.6	29.79	756.7	49.0	9.4	86	n.	7	3.1	.....	6 k	0	nw.	.....	0.08	2.0	fair	F. Z. Gosewisch
Key West, Florida	30.07	763.8	30.09	764.3	77.5	25.3	61	e.	15	6.7	.....	0	4 k	.....	e.	0	0	fair	L. M. Melbourne.
Kittyhawk, North Carolina	30.20	767.1	30.22	767.6	55	12.8	74	s.	15	6.7	.....	2 c	0	.....	.....	0	0	clear	E. A. Beals.
Knoxville, Tennessee	29.64	737.6	30.08	764.0	57.6	14.2	83	calm	0	0	.....	2 c	2 k	.....	.....	0	0	fair	J. A. Cody.
La Crosse, Wisconsin	29.18	741.2	29.98	761.5	45	7.2	53	n.	5	2.2	.....	.....	10 s	.....	.....	0.04	1.0	cloudy	S. C. Emery.
La Mesilla, New Mexico	26.08	662.4	29.96	761.0	41.3	5.2	51	calm	0	0	.....	0	0	.....	.....	0	0	clear	N. D. Lane.
Leavenworth, Kansas	28.97	735.8	29.88	758.9	58	14.4	80	nw.	12	5.4	.....	.....	10 s	.....	nw.	0	0	cloudy	A. W. Browne.
Lewiston, Idaho	29.29	744 0	30.14	765.5	38.4	3.6	75	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	W. Blake.
Little Rock, Arkansas	29.56	750.8	29.88	758.9	67	19.4	90	s.	10	4.5	.....	0	9 s	.....	s.	0	0	cloudy	W. U. Simmons.
Los Angeles, California	29.64	752.8	30.04	763.0	46.2	7.9	60	sw.	5	2.2	.....	0	0	.....	.....	0	0	clear	E. F. Kubel.
Louisville, Kentucky	29.30	744.2	29.87	758.7	61	16.1	78	se.	5	2.2	.....	8 k	sk.	sw.	.....	0	0	cloudy	H. C. Smyth.
Lynchburg, Virginia	29.41	747.0	30.12	765.0	57.0	13 9	64	sw.	4	1.8	.....	.....	9 s;ks	.....	sw.	0	0	cloudy	W. R. Bushby.
Madison, Wisconsin	28.93	734.8	29.97	761.2	41	5.0	82	e.	16	7.2	.....	.....	10 s	.....	calm	0	0	cloudy	C. A. Shaw.
Marquette, Michigan	29.42	747.3	30.18	766.6	38	3.3	45	nw.	5	2.2	.....	0	0	.....	.....	0	0	clear	J. Gilligan.
Mason, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	P. M. Wilson.
Memphis, Tennessee	29.60	751.8	29.94	760.5	68	20.0	78	s.	9	4.0	.....	.....	10 s	.....	sw.	0	0	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	29.23	742.4	30.00	762.0	40	4.4	89	ne.	16	7.2	.....	.....	10 s	.....	ne.	0	0	threatening	W. Line.
Mobile, Alabama	30.03	762.7	30.07	763.8	68	20.0	81	se.	4	1.8	.....	1 ck	0	nw.	.....	0	0	clear	J. D. Paxton.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
United States.—Cont'd.																			
Montgomery, Alabama	29.88	758.9	30.11	764 8	62	16.7	84	se.	5	2.2		8 ck	o	nw.		o	o	cloudy	J. B. McLaughlin.
Moorhead, Minnesota	28.82	732.0	29.85	758.2	43	6.1	83	se.	12	5.4		o	5 s		se.	0.32	8.1	fair	H. Bessant.
Morgantown, W. Virginia	29.01	736.8	30.05	763.3	47.0	8 3	77	calm	o	o		6 cs	fg.			o	o	fair	G. C. Lewis.
Mt. Washington, N. H.	23.74	603.0	30.15	765.8	13.0	—10.6	73	nw.	10	4.5		o	3 k		nw.	o	o	clear	J. G. Linsley.
Nashville, Tennessee	29.42	747.3	29.96	761.0	65.0	18.3	75	s.	5	2.2		o	6 ks		sw.	o	o	fair	L. A. Jesunofsky.
New Haven, Connecticut	30.13	765 3	30.25	768.3	40	4.4	73	sw.	1	0.4		3 ck	sk.	w		o	o	clear	J. H. Sherman.
New London, Connecticut	30.22	767.6	30.27	768.8	43	6.1	74	sw.	5	2.2		o	o			o	o	clear	J. G. Lynch.
New Orleans, Louisiana	29.97	761.2	30.03	762.7	68.5	20.3	77	e.	3	1.3		1 c	6 s	w.	e.	o	o	fair	S. Dunne.
Newport, Rhode Island	30.21	767.3	30.26	768.6	45.0	7.2	68	sw.	8	3.6		o	o			o	o	clear	W. McGillivray.
New River, N. Carolina					63	17.2	68	e.			1	o	o			o	o	clear	C. C. Corbin.
New Shoreham, Rhode I'd.	30.23	767.8	30.26	768.6	43.8	6.6	76	sw.	7	3.1		o	hz.			o	o	clear	W. Davis.
New York, New York	30.06	763.5	30.24	768.1	44	6.7	76	e.	2	0.9		3 cs	5 s	w.		o	o	cloudy	E. B. Garriott.
Norfolk, Virginia	30.16	766.1	30.19	766.8	51	10.6	72	se.	4	1.8			10 ks		sw.	o	o	cloudy	J. T. Elker.
North Platte, Nebraska	27.14	689.3	30.10	764.5	38.6	3.7	79	n.	10	4.5		o	o			0.08	2.0	clear	E. F. Brady.
Olympia, Washington T'y	30.17	766.3	30.21	767.3	37.0	2.8	89	s.	1	0.4			10 s		sw.	0.05	1.3	cloudy	J. Dascomb.
Omaha, Nebraska	28.75	730.2	29.96	761.0	51.3	10.7	90	n.	8	3.6		hz.	o			o	o	clear	A. Pollak.
Ooglaamie, Pt. Barrow, Alas.	30.11	764.8	30.12	765.0	16.6	— 8.6	95	ese.	26	11.6		o	4 s			o	o	fair	P. H. Ray.
Oswego, New York	29.85	758.2	30.19	766.8	39.0	3.9	46	se.	10	4.5		o	o			o	o	clear	S. W. Beall.
Palestine, Texas	29.39	746.5	29.95	760.7	70.5	21.4	90	s.	12	5.4			10 ks		s.	o	o	cloudy	L. M. Pindell.
Pensacola, Florida	30.05	763.3	30.08	764.0	70.8	21.6	73	se.	10	4.5		2 ck	o	w.		o	o	clear	M. McGauran.
Philadelphia, Pa.	30.10	764.5	30.20	767.1	47	8.3	68	se.	3	1.3		9 cs	o	s.		inap.	inap.	threatening	T. F. Townsend.
Pike's Peak, Colorado	17.72	450.1	30.00	762.0	14	—10.0	53	sw.	40	17.9		o	o			o	o	clear	L. M. Dey.
Pioche, Nevada	24.05	610.9	30.04	763.0	37.5	3.1	46	nw.	8	3.6		o	o			o	o	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.21	741.9	30.04	763.0	41.8	5.4	65	nw.	3	1.3		o	fg.			o	o	clear	J. H. Bryce.
Port Eads, Louisiana	30.04	763.0	30.05	763.3	71.1	21.7	83	se.	12	5.4		o	6 k		se.	o	o	fair	H. G. Christian.
Port Huron, Michigan	29.40	746.7	30.10	764.5	36.8	2.7	57	ne.	4	1.8		10 cs	o	w.		o	o	cloudy	W. O. Bailey.
Portland, Maine	30.16	766.1	30.21	767.3	42.0	5.6	42	ne.	9	4.0		o	o			o	o	clear	D. C. Murphy.
Portland, Oregon	30.10	764.5	30.17	766.3	41.0	5.0	92	calm	o	o			10 n		calm	0.38	9.7	light rain	M. L. Hearne.
Portsmouth, N. Carolina					60	15.6	75	ne.	7	3.1		5 c	hz.	calm	calm	o	o	fair	F. P. Chaffee.
Prescott, Arizona	24.77	629.1	29.99	761.7	35	1.7	53	s.	2	0.9		o	o			o	o	clear	J. Mc N. Wright.
Provincetown, Mass.	30.22	767.6	30.26	768·6	42.5	5.8	74	sw.	6	2.7		3 cs	o			o	o	clear	P. T. Jenkins.
Punta Rassa, Florida	30.08	764.0	30.09	764.3	69	20.6	73	e.	7	3.1		1 c	o	w.		o	o	clear	W. J. Evans.
Red Bluff, California	29.78	756.4	30.15	765.8	42.0	5.6	86	nw.	3	1.3		1 c	1 s			o	o	clear	J. M. Frantz.
Rio Grande City, Texas	29.61	752.1	29.85	758.2	76	24.4	90	se.	4	1.8		o	2 s		se.	o	o	clear	W. H. Taylor.
Rochester, New York	29.47	748.5	30.16	766.1	40	4.4	40	se.	6	2.7		o	sk.			o	o	clear	A. T. Sherwood.
Roseburg, Oregon	29.57	751.1	30.13	765.3	42	5.6	92	nw.	2	0.9			10 n			0.31	7.9	light rain	J. J. Nanry.
Sacramento, California	30.06	763 5	30.14	765.5	48.4	9.1	86	calm	o	o		o	o			o	o	clear	J. A. Barwick.
St. Louis, Missouri	29.20	741.7	29.81	757.2	61.0	16.1	93	sw.	5	2.2		o	6 s		w.	0.20	5.1	clearing	J. H. Webber.
St. Paul, Minnesota	29.04	737.6	29.93	760.2	46.0	7.8	43	e.	8	3.6			10 s		e.	o	o	cloudy	P. F. Lyons.
St. Vincent, Minnesota	28.95	735.3	29.86	758.4	35	1.7	89	e.	20	8.9			10 s		se.	o.06	1.5	cloudy	G. Kingsbury.
Salt Lake City, Utah	25.74	653.8	30.11	764.8	37	2.8	56	calm	o	o		9 k	o	w.		o	o	cloudy	J. Craig.
San Antonio, Texas	29.20	741.7	29.90	759.4	73.7	23.2	90	se.	3	1.3			10 s		se.	o	o	cloudy	E. Lane.
San Diego, California	29.92	760.0	29.99	761.7	47.6	8.7	91	n.	1	0.4		o	o			o	o	clear	A. C. Dobbins.
Sandusky, Ohio	29.35	745.5	30.05	763.3	44	6.7	76	ne.	16	7.2			10 s			o	o	cloudy	M. H. Perry.
Sandy Hook, New Jersey	30.20	767.1	30.24	768.1	45.0	7.2	76	se.	5	2.2		10 k	o	se.		o	o	cloudy	B. A. Blandon.
San Francisco, California	30.11	764.8	30.18	766.6	48	8.9	86	sw.	2	0.9		o	o			o	o	clear	N. Gorom.
Santa Fé, New Mexico	23.24	590.3	30.00	762.0	47.4	8.6	12	ne.	8	3.6		o	o			o	o	clear	H. U. Jones.
Savannah, Georgia	30.08	764.0	30.17	766.3	63	17.2	70	ne.	3	1.3		o	o			o	o	clear	H. W. Ford.
Shreveport, Louisiana	29.68	753.9	29.92	760.0	68	20.0	90	s.	2	0.9			10 s			o	o	cloudy	E. N. Meekins.
Silver City, New Mexico	24.26	616.2	29.94	760.5	45	7.2	39	nw.	6	2.7		o	o			o	o	clear	J. B. Wallace.
Sitka, Alaska	30.16	766.1	30.22	767.6	34.5	1.4	70	ne.	1	0.4		o	o			o	o	clear	J. J. McLean.
Smithville, North Carolina	30.15	765.8	30.19	766.8	61	16.1	84	ne.	4	1.8		4 ck	o	n.		o	o	fair	O. Parker.
Spokane Falls, Wash. Ter.	28.13	714.5	30.19	766.8	31	— 0.6	88	calm	o	o		10 cs	o			inap.	inap.	cloudy	D. Moore.
Springfield, Illinois	29.00	736.6	29.70	754.4	59	15.0	87	s.	13	5.8		1 c	8 s; ks	w.	w.	0.06	1.5	cloudy	T. B. Jennings.
Springfield, Massachusetts	30.12	765.0	30.25	768.3	41.2	5.1	65	sw.	2	0.9		o	hz.			o	o	clear	T. S. Outram.
Springfield, Mo.	28.39	721.1	29.91	759.7	68.1	20.1	76	sw.	12	5.4		o	5 ks		w.	o	o	fair	J. B. Marbury.
Stockton, Texas	26.90	683.2	29.93	760.2	50.3	10.2	40	s.	2	0.9		o	o			o	o	clear	J. O'Dowd.
Thatcher's Island, Mass.	30.19	766.8	30.24	768.1	41.2	5.1	61	sw.	9	4.0		o	o			o	o	clear	G. Liebmann.
Toledo, Ohio	29.34	745.2	30.05	763.3	43	6.1	83	e.	18	8.0			10 s		sw.	o	o	cloudy	A. Buell.
Tucson, Arizona	27.52	699.0	29.91	759.7	52	11.1	43	se.	3	1.3		o	o			o	o	clear	J. L. Whiteside.
Umatilla, Oregon	29.85	758.2	30.22	767.6	45	7.2	68	sw.	1	0.4			10 s			o	o	cloudy	J. Daly.
Uvalde, Texas	28.91	734.3	29.88	758.9	76	24.4	82	se.	3	1.3			10 s		s.	o	o	cloudy	E. C. Imlay.
Vicksburg, Mississippi	29.74	755.4	30.00	762.0	64	17.8	90	se.	6	2.7		2 k	hz.	s.		o	o	clear	T. J. Kenan.
Visalia, California																			J. T. Cochran.
Washington, D. C.	30.04	763.0	30.16	766.1	49.2	9.6	71	se.	6	2.7			10 s		s.	o	o	cloudy	B. M. Purssell.
West Las Animas, Colorado	26.13	663.7	30.09	764.3	43	6.1	53	n.	6	2.7		o	o			o	o	clear	J. Grover.
Wickenburg, Arizona					43.1	6.2	61	calm			0	o	o			o	o	clear	H. A. Kremp.
Williamsport, Pa.	29.51	749.5	30.12	765.0	44	6.7	81	e.	2	0.9			10 ks		sw.	o	o	cloudy	B. F. Hough.
Wilmington, N. Carolina	30.12	765.0	30.18	766.6	58	14.4	81	calm	o	o		7 k	sk.	w		o	o	fair	E. W. McHann.
Winnemucca, Nevada	25.68	652.3	30.08	764.0	31	— 0.6	71	s.	5	2.2		5 ck	o	sw.		o	o	fair	J. R. Williams.
Yankton, Dakota	28.64	727.4	29.98	761.5	46	7.8	77	nw.	2	0.9		o	o			o	o	clear	J. H. Atfield.
Yuma, Arizona	29.72	754.9	29.87	758.7	56.3	13.5	63	ne.	2	0.9		o	o			o	o	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.03	559.6			55.0	12.8	79	calm	o	o			10 s		n.	o	o	cloudy	Joaquin Gomez.
Bridgetown, Barbados, W.I.	30.05	763.3	30.06	763.5	82	27.8	91	e.				8 ck	8 s	ne.	ne.	o	o		J. A. Racker.
Buenaventura, U. S. C.																			J. I. Plume.
Guadeloupe, W. I.	29.90	759.4	29.92	760.0	81	27.2	74	se.				3 k	2 ks			o	o		B. Bigar.
Havana, Cuba, W. I.	30.02	762.5	30.07	763.8	79	26.1	77	se.	1.2	0.5		o	2 ks		calm	o	o	fair	A. Van Caneghem.
Kingston, Jamaica, W. I.	30.00	762.0	30.01	762.2	78.3	25.7	78	calm	o	o		o	o			o	o		Robert Johnston.
Navassa, W. I.																			F. M. Everett.
Paramaribo, S. A.	30.03	762.7	30.03	762.7	80	26.7	78	e.			2	5 k	8 ks	e.	e.	1.380	35.1	cloudy	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.45	748.0	29.91	759.7	78	25.6	75	n.			1		9 ks		n.	0.03	0.8	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.							92	ne.			3	10 cs	1 ks	se.	e.	o	o	cloudy	Earl Flint.
Santiago de Cuba, W. I.	29.96	761.0	29.99	761.7	80	26.7	74	calm	o	o		7 cs	o			0.06	1.5	cloudy	Robert Mason.
York Factory, B. A.	29.96	761.0	30.02	762.5	10.0	—12.2	90	e.	8	3.6		1 c	1 s	e.	e.	o	o	fair	W. Wood.

STATIONS AND VESSELS.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
British Naval.																		
H. M. S. Alert, S. 9° 23′, E. 51° 00′	29.90	759.4	83.5	28.6	77	se.			3–5		6							squally.
H. M. S. Alexandra, Malta Mediterranean	29.99	761.7	66	18.9	64	wsw.			2		5	wsw.						d. clouds.
H. M. S. Amethyst, N. 46° 04′, W. 6° 17′	29.44	747.8	54	12.2	86	nw.			3		1	wsw.				6	wsw.	blue sky.
H. M. S. Bacchante, Beirut Bay, Palestine	30.04	763.0	67	19.4	74	wsw.			3		1					1	w.	blue sky.
H. M. S. Champion, S. 22° 40′, W. 78° 50′			62	16.7	94	ese.			4		8	calm				4	sse.	d. clouds.
H. M. S. Cleopatra, N. 7° 31′, E. 86° 06′	29.81	757.2	84.5	29.2	100	sw.			2		2	calm				5	s.	d. clouds.
H. M. S. Comus, N. 7° 06′, E. 127° 50′	29.86	758.4	80	26.7	91	ene.			2		8	ne.				2	ne.	raining.
H. M. S. Dido, N. 18° 20′, W. 65° 00′	30.05	763.3	80	26.7		se.			1–2		2	e.						d. clouds.
H. M. S. Dryad, N. 26° 31′, E. 51° 05′	29.82	757.4				nnw.			5–6		0					6	nnw.	blue sky.
H. M. S. Dwarf, S. 32° 18′, W. 58° 25′	30.10	764.5	60	15.6	94	calm			0		0							blue sky.
H. M. S. Fantome, N. 17° 57′, W. 75° 25′	30.02	762.5	82	27.8		e.			1		2	e.				1	e.	d. clouds.
H. M. S. Gannet, S. 29° 56′, W. 71° 20′	29.92	760.0	53	11.7	93	calm			0		10							foggy.
H. M. S. Garnet, Colonia, Uruguay	30.11	764.8	60	15.6	88	calm			0		0							blue sky.
H. M. S. Inconstant, Simon's Bay, Cape Colony	29.99	761.7	70	21.1	71	wnw.			2		2	wnw.						d. clouds.
H. M. S. Iron Duke, N. 19° 37′ E. 119° 00′	29.90	759.4	80	26.7	95	calm			0		3	nw.						d. clouds.
H. M. S. Lark, S. 9° 05′, E. 160° 20′	29.89	759.2	84.3	29.1		se.			1		5					1	se.	d. clouds.
H. M. S. Magpie, N. 35° 25′, E. 139° 43′	30.00	762.0	61.3	16.3	60	s.			1		2	w.						d. clouds.
H. M. S. Malabar, N. 37° 27′, E. 4° 38′	29.80	756.9	68	20.0	90	wsw.			4–5		5	wsw.				5	wsw.	d. clouds.
H. M. S. Nelson, Sydney, N. S. W.	29.69	754.1	67	19.4	84	nw.			1		8	s.						d. clouds.
H. M. S. Northampton, Bermuda, W. I.	30.02	762.5	65	18.3	92	nnw.			6		10	nnw.						raining.
H. M. S. Orontes, N 32° 21′ W. 40° 30′	30.42	772.7	67.5	19.7	96	se.			3		8					2	ese.	d. clouds.
H. M. S. Pegasus, N. 1° 17′, E. 103° 52′	29.85	758.2	84	28.9	96	calm			0		0							blue sky.
H. M. S. Rambler, S. 14° 25′ E. 12° 07′	29.90	759.4	70	21.1	100	n.			1		8					3	ssw.	hazy.
H. M. S. Rocket, Esquimalt, Vancouver Id., B. C.	30.18	766.6	41	5.0		wsw.			2		8							showery.
H. M. S. Serapis, N. 13° 32′ E. 49° 30′	29.84	757.9	87	30.6	72	sw.			2		2	sw.						d. clouds.
H. M. S. Superb, N. 35° 58′, E. 14° 33′*	30.00	762.0	65	18.3	78	wnw.			3–4		1	nw.						misty.
H. M. S. Tenedos, N. 35° 50′ W. 64° 00′	30.16	766.1	60	15.6	82	nw.			4–5		10					3	nw.	overcast.
H. M. S. Thalia, S. 12° 13′, W. 9° 08′	30.08	764.0	78.5	25.8	69	ese.			1		9					1	ese.	d. clouds.
H. M. S. Triumph, Coquimbo, Chili	29.92	760.0	54	12.2	93	calm			0									dense fog.
H. M. S. Woodlark, N. 24° 47′, E. 57° 30′	29.72	754.9	84.5	29.2	71	e.			2		0							misty.
Portuguese Naval.																		
Rio Lima, Bulama, Senegambia	30.03	762.7	80.2	26.8	92	nw.			2		2					2		d. clouds.
Tamega, Aberdeen, China	29.88	759.0	77.0	25.0	87	se.			2		5							d. clouds.
Swedish Naval.																		
Balder, N. 41° 55′ W. 45° 17′	30.06	763.6	46.9	8.3	93	nnw.			3		10							misty.
United States Naval.																		
Navy Yard, Pensacola, Fla.	30.02	762.5	72	22.2	76	sse.	16	7.2			2		se.	0	0			fair.
N. Yard, Portsmouth, N. H.	30.23	767.8	40	4.4	56	ne.	4	1.8			0			0	0			clear.
Naval Hospital, Yokohama, Japan	29.87	758.7	61.5	16.4	50	sw.			3		0			0	0			hazy.
Adams, N. 18° 12′ W. 103° 20	29.67	753.6	77	25.0	91	nnw.			1		2		w.	0	0	sm'h		clear.
Alaska, Panama, Panama	29.82	757.4	76	24.4	91	calm			0		10		n.	0.10	2.5	sm'h		cloudy.
Alert, Kobe Japan*	29.90	759.4	68	20.0	74	calm			0		8		calm	0	0	sm'h		hazy.
Alliance, N. 25° 05′, W. 79° 52′	30.11	764.8	76	24.4	68	ene.			3		5		ene.	0	0	sm'h	ene.	fair.
Ashuelot, Kobe, Japan	29.99	761.7	65	18.3	89	nw.			1		5		w.					fair.
Brooklyn, Montevideo, Uruguay	30.12	765.0	62	16.7	94	n.	3	1.3			5		n.	0	0	sm'h		fair.
Colorado, New York, N. Y.	30.20	767.1	43	6.1	75	calm	0	0			8		w.	0	0			light fog.
Enterprise, N. 29° 15′ W. 79° 47′*	30.13	765.3	72	22.2	80	ene.			3		5		ne.			long		fair.
Essex, S. 16° 35′, W. 31° 46′	30.00	762.0	77	25.0	91	sse.			5		5?		se.			br'kn	se.	clear ?
Franklin, Norfolk, Va.	30.21	767.3	52	11.1	66	se.	4.8	2.1			10		wnw.	0	0			cloudy.
Galena, Leghorn, Italy	29.66	753.4	61	16.1	94	w.			3		10		w.			sm'h	w.	cloudy.
Independence, Mare Island, Cal.	30.01	762.2	46	7.8	92	calm			0		0			0	0			clear.
Iroquois, Mare Island, Cal.	30.12	765.0	53	11.7	80	calm			0		0							clear.
Kearsarge, Hampton Roads, Va.	30.19	766.8	53	11.7	93	s.			2		10		w.			sm'h		cloudy.
Lackawana, Casma, Peru*†	30.02	762.5	63	17.2	94	w.			0–1		10							foggy.
Lancaster, Leghorn, Italy*	29.90	759.4	59	15.0	82	calm			0		8		wsw.	0	0			fair.
Marion, S. 21° 17′, W. 11° 32′	30.13	765.3	75	23.9	86	ene.			1		2		calm			sm'h		clear.
Michigan, Erie, Pa.	30.05	763.3	40	4.4	100	e.			1		2		sw.					fair.
Minnesota, Newport, R. I.	30.24	768.1	43	6.1	83	sw.	3	1.3			0							clear.
Monocacy, Kobe, Japan	30.04	763.0	66	18.9	89	w.			1		8		calm					fair.
New Hampshire, Newport, R. I.	30.16	766.1	48	8.9	63	sw.			2		2					sm'h		fair.
Nipsic, Villafranca, France	29.52	749.8	66	18.9	45	sw.			3		10					mod.		cloudy.
Onward, Callao, Peru†	30.03	762.7	60	15.6	94	wnw.			1		10					long	w.	foggy.
Palos, Kobe, Japan	30.04	763.0	64	17.8	78	wnw.			1		8		wsw.					hazy.
Passaic, Washington, D. C.	30.16	766.1	50	10.0	79	se.			2		10							cloudy.
Pensacola, Callao, Peru	29.96	761.0	58	14.4	94	n.	1	0.4			10			0	0	sm'h		foggy.
Powhatan, Key West, Florida	30.08	764.0	79	26.1	74	nne.			2		2							fair.
Portsmouth, N. 42° 25′ W. 41° 36′	30.01	762.2	62	16.7	100	sw.			6		10					r'gh	sw.	cloudy.
Quinnebaug, Leghorn, Italy	29.63	752.6	61	16.1	88	s.			5		10		s.			sm'h		overcast.
Ranger, Aliata Bar, Mexico*	29.83	757.7	67	19.4	89	nw.			1		2		nw.	0	0	sm'h		hazy.
Richmond, Kobe, Japan*	29.97	761.2	69	20.6	70	calm			0		0			0	0			clear.
Saratoga, N. 43° 12′, W. 40° 53′	30.03	762.7	60	15.6	100	wsw.			3–4		0			0	0	light	sw.	cloudy.
Shenandoah, N. 32° 38′, W. 77° 18′*	30.26	768.6	68	20.0	65	e.			2		8		e.			mod.	ne.	cloudy.
St. Louis, League Island, Pa.	30.45	773.4	48	8.9	70	se.	7	3.1			10							drizzling.
Swatara, N. 36° 30′, E. 123° 32′*	29.69	754.1	54	12.2	80	e.			5		10		e.			mod.	ese.	light rain.
Tennessee, Fort Monroe, Va.	30.22	767.6	53	11.7	100	sse.	7	3.1			10			0	0			overcast.
Vandalia, Hampton Roads, Va†	30.41	772.4	52	11.1	79	s.			2		10		w.					overcast.
Wabash, Boston, Mass.	30.23	767.8	40	4.4	73	wsw.	7	3.1						0	0			clear.
Wachusetts, Sitka, Alaska	29.93	760.2	33	0.6		calm			0		0					sm'h		clear.
Wyoming, Port Royal, S. C.	30.15	765.8	62	16.7	83	ne.	2	0.9			0			0	0			clear.
Yantic, Fort Monroe, Va*†	30.43	772.9	52	11.1	79	sse.			2		10							cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Circassian, N. 46° 02′, W. 42° 10′	30.24	768.1	45	7.2	100	nw.			6		10		nw.	1 h'r	1 h r	3	w.	raining.
S. S. Polynesian, N. 47° 50′, W. 38° 21′*	29.65	753.1	52	11.1		ne.			1		10			0	0	r'gh	sw.	overcast.
S. S. Scandinavian, N. 47° 28′, W. 35° 31′*	29.75	755.6	53	11.7		sse.			4		10		w.	16 h'r	16 h'r	cross	var.	misty.
S. S. Waldensian, Glasgow, Scotland*	29.43	747.5	48	8.9		ne.			3		5?		n.	0	0			clear.?
AMERICAN STEAMSHIP COMPANY.																		
S. S. British Crown, Off Mine Head, Ireland†	29.71	754.6	40	4.4		ne.			4		4		ne.	2 h'r	2 h'r	sm'h		fine.
S. S. Illinois, Liverpool, England	29.38	746.2	58	14.4	93	nw.			4		2		w.					fine.
S. S. Indiana, N. 39° 42′, W. 52° 58′†	30.22	767.6	55	12.8	?	ene.			5		10		ne.	light	light	mod.	ne.	cloudy.
S. S. Ohio, Liverpool, Engt	29.37	746.0	52	11.1	93	nnw.			6		4		nnw.					fine.
S. S. Pennsylvania, N. 39° 29′, W. 57° 50′†	30.20	767.1	54	12.2	100	n.			2				ne.			sm'h	sw.	d. clouds.
ANCHOR LINE.																		
S. S. Assyria, N. 55° 20′, W. 6° 15′*†	29.72	754.9	46	7.8		n.			6		2		n.	0	0	mod.	n.	squally.
S. S. Bolivia, N. 41° 15′, W. 50° 09′†	30.07	763.8	45	7.2		ne.			1		1?			driz'l	driz'l	light		cloudy.?
S. S. Devonia, N. 40° 55′ W. 66° 30′†	30.25	768.3	42	5.6		calm			0		0					sm'h		clear.
S. S. Ethiopia, N. 50° 24′, W. 31° 10′	29.88	758.9	52.5	11.4	96	wsw.			4		8		w.	2 h'r	2 h'r	h'vy	wsw.	showery.
S. S. Galatia, N. 47° 23′, W. 33° 25′†	29.99	761.7				sw.			6		10		sw.	16 h'r	16 h'r	r'gh	sw.	rainy.
S. S. India, N. 14° 11′, E. 51° 58′*	29.80	756.9	87	30.6	92	ese.			1		2							fair.
ATLAS LINE.																		
S. S. Ailsa, N. 11° 36′, W. 75° 30′†	29.91	759.7	82	27.8	78	e.			3		8		ne.	0	0	con.	e.	hazy.
S. S. Alvo, Cartagena, U. S. C.	29.81	757.2	106	41.1		nne.			5		8		nne.	0	0			cloudy.
S. S. Athos, N. 33° 38′, W. 73° 48′	29.85	758.2				s.			4		0			0	0	r'gh	ssw.	clear.
S. S. Claribel, N. 18° 26′. W. 72° 51′*†	30.14	765.5	82	27.8	83	calm			0		3		calm	0	0			fine.
BRITISH METEOROLOGICAL OFFICE.																		
Bk. Arran, S. 22° 40′ W. 28° 56′	30.22	767.6	73	22.8	76	sse.			6		5							d. clouds.
S. Baroda, N. 18° 45′, E. 85° 02′	29.74	755.4	86.2	30.1	82	sse.			4		0							blue sky.
British Merchant, S. 25° 54′, E. 55° 58′	30.07	763.8	77.5	25.3	75	sw.			2		3							d. clouds.
Glencairn, S. 8° 23′, E. 92° 28′	29.86	758.4	82.4	28.0	87	wsw.			3		5							d. clouds.
Bk. Julia H., N. 29° 01′, W. 73° 49′	30.14	765.5	66.7	19.3	81	e.			4		3							d. clouds.
Minho, N. 45° 21′, W. 7° 15′	29.53	750.0	54	12.2	87	wsw.			4		9							showery.
CROMWELL LINE.																		
S. S. Hudson, N. 25° 10′, W. 80° 08′†	30.23	767.8	74	23.3		ne.			3		0			0	0	mod.	ne.	clear.
CUNARD LINE.																		
S. S. Gallia, N. 48° 58′, W. 30° 39′	29.87	758.7	54	12.2	?	sw.			3		10		w.	0	0	high	w.	cloudy.
S. S. Scythia, N. 49° 19′, W. 24° 50′	29.93	760.2	57	13.9	87	wnw.			2		7		nw.	4 h'r	4 h'r	mod.	wnw.	cloudy.
GENERAL TRANS-ATLANTIC COMPANY																		
S. S. Canada, N. 48° 12′, W. 28° 00′	29.95	760.7	51.8	11.0		w.			3		10		w.	4 h'r	4 h'r		w.	covered.
S. S. France, N. 41° 01′, W. 67° 00′†	30.34	770.7	37.4	3.0		n.			1				nnw.	0	0	mod.	nnw.	clear.
S. S. St. Germain, N. 46° 58′, W. 33° 18′			59.0	15.0		sw.			6				sw.	rain	rain	h'vy	sw.	covered.
GUION LINE.																		
S. S. Arizona, N. 47° 20′, W. 33° 12′	29.89	759.2	53	11.7		wsw.			3		10		w.	6 h'r	6 h'r	mod.	w.	drizzling.
S. S. Wisconsin, N. 50° 10′, W. 22° 20′*†	29.94	760.5	54	12.2	93	w.			3		2		wnw.	0	0	mod.	wnw.	clear.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Bohemia, N. 49° 40′, E. 80 16′.*†	29.66	753.4				une.			5		2		ne.	4 h'r	4 h'r	long	w.	fine.
S. S. Cimbria, N. 46° 37′, W. 37° 24′	29.88	758.9	56.3	13.5		sw.			4		8		wsw.	8 h'r	8 h'r	mod.	sw.	foggy.
S. S. Lessing, Cuxhaven, Germany	28.99	736.4	54	12.2		sse.			6		10			0	0			cloudy.
S. S. Silesia, N. 44° 29′, W. 40° 38′†	30.09	764.3	52.2	11.2		nw.			5		8		w.	6 h'r	6 h'r	5	wsw.	cloudy.
S. S. Wieland, N. 47° 39′, W 24° 15′	30.01	762.2	54	12.2		wnw.			4		10		w.	4 h'r	4 h'r	5	wsw.	cloudy.
INMAN LINE.																		
S. S. City of New York, N. 41° 20′ W. 51° 11′	30.25	768.3				nne.			3		9		nne.	0	0	long	sw.	cloudy.
LAMPERT AND HOLT'S LINE.																		
S. S. Hovelius, S. 17° —′, W. 37° —′*†	30.29	769.4	80	26.7		sse.			5		8		se.	12 h'r	12 h'r	high	s.	cloudy.
S. S. Humboldt. S. 21° 18′ W. 40° 02′.*	30.20	767.1	76.2	24.6	82	e.			6		9			0	0	6	sse.	overcast.
MALLORY LINE.																		
S. S. Colorado, New York, N. Y.†	30.18	766.6	48	8.9		se.			3		4		se.	0	0			fair.
MERCHANTS' EXPRESS LINE.																		
S. S. Freja, N. 42° 03′, W. 44° 21′†	30.13	765.3	61	16.1	94	var.			4		10		w.	8 h'r	8 h'r	high	sw.	rainy.
MERCHANT STEAMSHIP COMPANY.																		
S. S. Glenapp, N. 22° 36′, W. 60° 10′.*†	30.04	763.0				s.			4		6		s.	1 h'r	1 h'r	light	e.	showery.
NATIONAL LINE.																		
S. S. Denmark, N. 44° 41′, W. 36° 05′	30.02	762.5	60	15.6		sw.			4		10			0	0	mod.	sw.	misty.
S. S. England, N. 44° 40′, W. 39° 52′	30.06	763.5				wnw.			6		5			6 h'r	6 h'r	h'vy	w.	hazy.
S. S. Erin, London, England	29.43	747.5	58	14.4		wnw.			4		10		nw.	16 h'r	16 h'r			squally.
S. S. Italy, N. 40° 22′, W. 51° 56′	30.24	768.1	51	10.6	72	ne.			2		5		ene.	0	0	long	n.	fair.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Niagara, N. 25° 44′, W. 80° 03′†	30.16	766.1	76	24.4	68	ne.			2		2		e.	0	0	sm'h		fair.
NEW YORK, HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, New York, N. Y.*†	30.29	769.4	48	8.9		e.			2		8		se.					drizzling.
S. S. City of Puebla, N. 23° 13′, W. 84° 14′†	29.93	760.2	78	25.6		ese.			2		2		e.				e.	
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Alvena, N. 25° 23′, W. 66° 10′†	29.93	760.2	69	20.6		var.										sm'h		clear.
S. S. New York, N. 39° 45′, W. 74° 00′*†	30.30	769.6	46	7.8		s.			3							sm'h		overcast.
S. S. Olbers, N. 0° 14′ W. 29° 40′*†	30.03	762.7	81	27.2		buff.			1–2								n.	rainy.
NORTH GERMAN LLOYD.																		
S. S. Graf Bismarck, Bahia, Brazil, S. A.	30.09	764.3	77.0	25.0		sse.			5–6		9		sse.	20 h'r	20 h'r			squally.
S. S. Hapsburg, N. 47° 53′, W. 34° 23′	29.81	757.2	53.6	12.0		se.			3		10		se.	5 h'r	5 h'r	sm'h	se.	cloudy.
S. S. Kronprinz F. Wilhelm, N. 43° 16′ W. 51° 32′	30.20	767.1	39.2	4.0		wnw.			2		8		w.	1 h'r	1 h'r	2	wnw.	cloudy.
S. S. Mosel, N. 42° 26′ W. 53° 38′	30.22	767.6	43	6.1		wnw			4		9		n.	3½ h'r	3½ h'r	sm'h	nw.	cloudy.
S. S. Nurnburg, N. 40° 39′, W 57° 50′*	30.20	767.1	45.5	7.5		n.			4		9		n.	0	0	mod.	n.	cloudy.
S. S. Ohio, N. 49° 58′, W. 4° 54′	29.56	750.8				nnw.			5		3		nnw.	0	0	sm'h		fair.
S. S. Rhein, N. 52° 40′, E. 3° 32′	29.10	739.1				nw.			6		9		nw.	8 h'r	8 h'r	high	nw.	drizzling.
S. S. Salier, N. 47° 59′, W. 28° 20′	29.95	760.7	48.2	9.0		se.			3		10		sse.	6 h'r	6 h'r	long	sw.	cloudy.
S. S. Strassburg, N. 42° 45′, W. 45° 59′	30.20	767.1	41.0	5.0	91	n;nw.			4		10		nnw.	0	0	mod.	nw.	cloudy.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Belgic, N. 37° 04′, W. 152° 16′†	30.16	766.1	61	16.1	82	nw.			5		8		nw.	0	0	r'gh	wnw.	cloudy.
S. S. Oceanic, Hong Kong, China*	29.75	755.6	78	25.6	78	w.			2									cloudy.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, Savannah, Ga.†	30.15	765.8				n.			1		0			0	0			clear.
S. S. Seminole, Boston, Mass†	30.17	766.3	48	8.9	70	nw.			4		1		nw.	0	0			clear.
OREGON IMPROVEMENT COMPANY.																		
S. S. Mississippi, Seattle, Wash. Ter.†	30.27	768.8	45	7.2	84	calm			0		10		e.					cloudy.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. City of Chester, San Francisco, Cal.*†	30.22	767.6	42	5.6	?	calm			0		0					mod.	s.	clear.
S. S. Columbia, N 46° 04′, W. 124° 10′†	30.17	766.3	43	6.1	83	ne.			2		7		nne.			mod.	sw.	cloudy.
S. S. Oregon, San Francisco, Cal.†	30.13	765.3	48	8.9	92	calm			0		0							clear.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, N 35° 11°, W. 120° 49′†	30.04	763.0	53	11.7	48	n.			2		0					sm'h	wnw.	clear.
S. S. Idaho, Seattle, Wash. Ter.†	30.28	769.1	39	3.9	91	w.			1		10		sw.					cloudy.
S. S. State of California, Portland, Oregon †	30.14	765.5	40	4.4	91	calm			0		10							raining.
S. S. Victoria, N. 40° 18′ W. 124° 34′†	30.14	765.5	48	8.9	85	s.			2		8			0	0	mod.	w.	squally.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, S. 31° 44′, E. 178° 55′	30.14	765.5	66	18.9	79	sw.			2		2		s.			sm'h		clear.
S. S. City of New York, Sydney, N. S. W.†	29.68	753.9	66	18.9	89	nw.			1		1?		nw.	0	0			overcast?
S. S. City of Pekin, N. 24° 10′, W. 111° 16′†	29.89	759.2	62	16.7	88	nw.			4		2		nw.			mod.	w.	hazy.
S. S. City of Rio de Janeiro, Panama, Panama*†	30.10	764.5	78	25.6	82	n.			1		0					sm'h	nw.	clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
PACIFIC MAIL STEAMSHIP COMPANY.—Continued.																		
S. S. City of Tokio, N. 34° 41′, E. 124° 09′†	30.14	765.5	66	18.9	68	ssw.			2		2		ssw.	0	0	mod.	w.	fine.
S. S. Clyde, N. 20° 11′, W. 105° 55′†	29.89	759.2	72	22.2	85	var.			0–1		8		wnw.	0	0	light	nw.	fair.
S. S. Grenada, N. 19° 53′, W. 105° 31′†	29.87	758.7	72	22.2	85	e.			2		10		se.	0	0	light	w.	cloudy.
S. S. Zelandia, S. 16° 47′, W. 171° 36′	29.95	760.7	83	28.3	91	sse.			3		2		e.			sm'h		clear.
QUEBEC STEAMSHIP COMPANY.																		
S. S. Muriel, St. Kitts, W. I	30.02	762.5	82	27.8		ene.			2		0			0	0	sm'h		fair.
S. S. Bermuda, N. 15° 40′, W. 61° 30′†	30.06	763.5	64	17.8		ese.			4		2		ese.	0	0	g'tl	se.	fine.
RED STAR LINE.																		
S. S. Belgenland, N. 44° 32′, W. 37° 20′†	30.14	765.5	59	15.0	94	sw.			6		10		sw.	5 h'r	5 h'r	mod	e.	rainy.
S. S. Nederland, N. 39° 52′, W. 50° 25′*†	30.22	767.6	51	10.6		n.			4		10		n.			sm'h	ssw.	overcast.
S. S. Rhynland, Jersey City, N. J	30.23	767.8	46	7.8	77	calm.			0		10		wnw.	0	0			cloudy.
S. S. Vaderland, N. 49° 24′, W. 16° 10′	29.75	755.6	51	10.6	93	wsw.			2		10		w.	0	0	long	w.	overcast.
S. S. Waesland, N. 50° 12′, W. 2° 49′	29.47	748.5	54	12.2		n.			3		1		n.	sh'rs	shr's	sm'h	n.	clear.
ROTTERDAM LINE.																		
S. S. Schiedam, N. 46° 02′ W. 38° 14′*†	29.89	759.2	57.0	13.9	98	w.			5		9		wsw.	10 h'r	10 h'r	r'gh	sw.	hazy.
STATE LINE.																		
S. S. State of Florida, Glasgow, Scotland	29.50	749.3	51	10.6		nnw.			4		5?		nw.	1 h'r	1 h'r			cloudy.?
S. S. State of Georgia, N. 48° 17′, W. 37° 31′†	29.86	758.4	51	10.6		w.			3		10					long	sw.	drizzling.
THINGVALLA LINE.																		
S. S. Thingvalla, N. 41° 23′ W. 58° 44′.†	30.44	773.2	43.7	6.5		nnw.			2		6?		nw.	0	0	sm'h	wnw.	covered.?
WHITE CROSS LINE.																		
S. S. Plantyn, N. 40° 18′, W. 67° 10′	30.33	770.4				var.			0–2		0			0	0	sm'h		clear.
WHITE STAR LINE.																		
S. S. Adriatic, Queenstown, Ireland†	29.71	754.6	54	12.2		nw.			4		2		nw.	0	0	sm'h		d clouds.
S. S. Baltic, N. 48° 34′ W. 32° 49′†	29.92	760.0	51	10.6	93	s.			3		10		wnw.	3 h'r	3 h'r	r'gh	con.	drizzling.
S. S Britannic, N. 43° 56′, W. 43° 42′†	30.06	763.5	50	10.0		nw.			4		10		nw.	3 h'r	3 h'r	mod.	w.	overcast.
S. S. Celtic, New York, N. Y†	30.19	766.8	46	7.8		s.			1		10		s.	0	0			hazy.
WILSON LINE.																		
S. S. Otranto, N. 48° 59′, W. 18° 34′†	29.50?	749.3?	56	13.3		w.			5				w.			long	wsw.	clear.
S. S. Salerno, Falmouth, Eng*	29.61	752.1	49	9.4	78	nw.			4		10		nw.					showery.
WINSOR LINE.																		
S. S. Catherine Whiting, Philadelphia, Pa.†	30.20	767.1				s.			1				ssw.	0	0			
MISCELLANEOUS.																		
Schr. Abbie Clifford, N. 35° 06′, W. 53° 04′*†	30.05	763.3	72	22.2		sse.			3		10		sse.	1 h'r	1 h'r	sm'h	ssw.	cloudy.
Schr. Addie Fuller, Newport News, Va†	30.24	768.1	50	10.0	79	sse.			3		10 8			0	0			cloudy.
Bk. Adelaide, Rio de Janeiro, Brazil*†	30.10	764.5	74	23.3		calm			0									
Schr. Ajax, Mobile Bay, Ala†	30.08	764.0				se.			3		5?			0	0			cloudy.?
Bk. Alpha, Santiago de Cuba, W. I†	29.95	760.7	81	27.2		n.			1		2		n.	0	0			fair.
Schr. Annie Lewis, N. 28° 27′, W. 93° 10′†	30.05	763.3	76	24.4		ese.			3		0			0	0	short	ese.	clear.
Bk Antioch, S. 40° 00′, E. 40° 30′*†	29.55	750.6	59.5	15.3		nw.			8		10		nw.	4 h'r	4 h'r	mod.	wsw.	drizzling.
Schr. Asa Eldridge, N. 25° 02′, W. 81° 33′†	30.10	764.5				e.			3		5?		ese.	0	0	reg.		clear.?
Bk. Aureola, S. 13° 04′ W. 34° 07′*†	30.15	765.8	99	37.2		se.			2		3		se.	0	0	hv'y	ssw.	clear.
Bkt. Carrie Heckle, Cienfuegos, Cuba, W. I*†	30.16	766.1	84	28.9		nnw.			3		2		nnw.	0	0			fair.
Bk. Celestina, S. 34° 21′ W. 53° 06′*†	30.21	767.3				ne.			2				nne.	0	0	sm'h	e.	
Bk. Champion, Off Lizard, Eng†	29.51	749.5				nw.			3		2		n.	0	0	sm'h	w.	
S. S. Compton, Havana, Cuba, W. I†	30.08	764.0				calm			0		1		calm	0	0			clear.
S. Dora, N. 40° 50′ W. 47° 00′†	30.22	767.6	62.6	17.0		n.			4		9		sw.	10 h'r	10 h'r	rg'h	w.	cloudy.
Bk. E. J. Spicer, N. 39° 42′, W. 48° 53′†	30.12	765.0				ene.			5		10		e.	10 h'r	10 h'r	mod.	sse.	cloudy.
S. Enoch Train, N. 41° 43′ W. 47° 28′*	30.03	762.7				nnw.			3		10		n.	rain	rain	light	sw.	overcast.
S. Exporter, S. 12° 37′, W. 30° 56′*†	30.20	767.1				se. to e			3		1		se.	0	0	long	s.	fine
S. Festina Lente, N. 38° 12′, W. 58° 24′*	30.21	767.3	55	12.8		nnw.			3		3		n.	0	0	light	ssw.	clear.
U.S. F. C. S. Fish Hawk, Quantico, Va†	30.22	767.6	53	11.7	73	sse.			3		10		s.	0	0			cloudy.
S. Grecian, S. 40° 40′, E. 44° 11′*†	29.63	752.6	55	12.8		w.			6		8		w.	sq'lls	sq'lls	cross	nw.	cloudy.
Bk. Freya, N. 49° 29′, W. 13° 38′			56	13.3		ne.			3		1		n.	7 h'r	7 h'r	mod.	nnw.	fair.
Bk. Granville, Algoa Bay, Africa*†	30.19	766.8				nw.			1					0	0			clear.
Bk. Hattie G. McFarland, Baltimore, Md.*†	30.18	766.6	51	10.6		s.			3		9		s.	6 h'r	6 h'r			hazy.
Schr. Henry Denison, N. 32° 46′, W. 76° 28′†	30.14	765.5				ene.			3		4		n.	0	0	mod.	ne.	fair.
S. Hedwig, N. 39° 52′, W. 57° 52′	30.26	768.5	48.6	9.2	86	n.			3		6		n.	2 h'r	2 h r	3	wsw.	squally.
Schr. John L. Thomas, Serrana Cays, C. A*†	30.02	762.5				ne.					5		e.	0	0	light	ne.	fine.
Bg John Wesley, Sagua la Grande, Cuba, W. I.†	29.94	760.5	79	26.1		e.			4		0			0	0			clear.
Bk. Jona, N. 49° 24′, W. 10° 30′*†	30.00	762.0				ne.			1		5		ene.	0	0	long	nw.	fair.
Bkt. Josephine, N. 11° 28′, W. 76° 36′*†	29.98	761.5	82	27.8	74	ne.			6		2		ne.	0	0	mod.	ne.	hazy.
Bk. Kate Cann, N. 47° 04′. W. 17° 00′*†	29.84	757.9				w.			5		8		nw.	6 h'r	6 h'r	sm'h	nw.	light rain.
Bkt. Kryolith, N. 45° 33′, W. 12° 40′*†	29.80	756.9				nw.			8		2		nw.	0	0	hv'y	w.	clearing.
S. Lake Erie, N. 48° 30′ W. 18° 38′	29.77	756.1				nw.			5		3		n.	light	light	hv'y	w.	clear.
Light House Tender, Laurel, Key West, Fla†	30.10	764.5	78	25.6		ene.			2		3		e.	0	0			clear.
Schr. Maggie Abbott, Baracoa, Cuba, W. I.*†	29.85	758.2																
S. S. Malabar, Gulf of Suez*†	29.95	760.7																
Bg. Medina, Key Francis, W. I†	30.19	766.8				ene.			2		5		e.	0	0			fine.
S. S. Nebo, Rio do Janeiro Brazil*†	30.11	764.8				wnw.			1		2			1 h'r	1 h'r			clear.
S. S. New York, N. 36° 39′, W. 2° 35′*†	30.10	764.5				wsw.							wsw.	0	0	h'vy	wsw.	fair.
Bk. Peppina, Bordeaux, France†	29.52	749.8	59	15.0	81	sw.			6		5		sw.					squally.
S. Salisbury, S. 14° 04′, W. 29° 08′*	30.10	764.5	87.4	30.8	85	ese.			4		5		ese.	½ h'r	½ h'r	mod.	ese.	fair.
Schr. S. B. Hubbard, St. Johns, Fla*†	30.16	766.1	70	21.1		n.			1		0			0	0			fine.
Bkt. Spotless, S. 20° 50′, W. 39° 17′*†	30.10	764.5				se.							se.			hv'y	s.	fine.
Bk. Stella, S. 30° 22′, W. 82° 44′*	30.08	764.0	70.7	21.5	91	nw.			2		6		nw.	0	0	sm'h	w.	d. clouds.
S. S. Utopia, N. 40° 25′ W. 58° 30′†	30.17	766.3	48	8.9	85	n.			3		6		nne.	½ h'r	½ h'r	mod.	n.	fair.
Yacht Vega, N. 39° 44′, W. 71° 49′*†	30.39?	771.9?	40	4.4		se.					0			0	0	light	se.	fair.
S. Washington, N. 46° 22′, W. 34° 25′*†	29.86	758.4				ssw.			6		10			16 h'r	16 h'r	r'gh	ssw.	raining.
Bg. Wauburn, N. 16° 43′, W. 53° 30′*†	30.10	764.5				e.			6		0					sm'h		clear.
S. Wm. Woodbury, N. 38° 41′, W. 50° 38′*†	29.93	760.2	60	15.6		ne.			4				w.			light	w.	clear.

International Chart I. April 26, 1882. Isobars and Isotherms.

UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON APRIL 27, 1882,

7 A. M., Washington Mean Time.

STATIONS.	BAROMETER. Corrected for instrumental error and for temperature.		BAROMETER. Reduced to sea-level.		Temperature of the air.		Relative humidity.	WIND. Direction.	WIND. Velocity.		WIND. Force.	CLOUDS. Amount and kind. Upper.	CLOUDS. Amount and kind. Lower.	CLOUDS. Direction. Upper.	CLOUDS. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
ALGERIAN.																			
Nemours	.....	.....	29.98	761.5	74.8	23.8	87	ne.	.....	.....	4	.....	0	.....	.....	0	0	clear	Moiroud.
Algiers	.....	.....	29.92	760.0	64.8	18.2	62	wnw.	.....	.....	6	.....	8	.....	.....	0	0	very cloudy	Nicolas.
La Calle	.....	.....	29.82	757.4	61.9	16.6	77	w.	.....	.....	4	.....	5	.....	.....	0.059	1.5	cloudy	Fonfréde.
Tunis	.....	.....	29.81	757.2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.08	763.9	50.4	10.2	85	n.	.....	.....	2	.....	6	.....	.....	0.028	0.7	cloudy	Dumas.
Tebessa	.....	.....	29.96	761.0	50.7	10.4	82	sw.	.....	.....	5	.....	5	.....	.....	0.079	2.0	cloudy	Derché.
Geriville	.....	.....	.....	.....	68.4	20.2	28	nw.	.....	.....	7	.....	6	.....	.....	0	0	cloudy	Lonchamp.
Laghouat	.....	.....	30.06	763.5	80.6	27.0	59	w.	.....	.....	6	.....	3	.....	.....	0	0	pretty fair	Abraham.
Biskra	.....	.....	30.00	761.9	76.3	24.6	19	nnw.	.....	.....	3	.....	9	.....	.....	0	0	covered	Malau.
AUSTRALIAN.																			
Melbourne, Victoria	29.65	753.1	29.74	755.4	52.0	11.1	76	wsw.	12	5.4	.....	.....	10	.....	.....	0.13	3.3	dull	R. L. J. Ellery.
AUSTRO-HUNGARIAN.																			
Agram	29.03	737.3	29.56	750.8	63.3	17.4	64	sw.	.....	.....	4	.....	10	.....	.....	0.386	9.8	raining	Prof. Ivan Stozir.
Cracow, I. R Observatory	28.84	732.6	29.38	751.3	67.6	19.8	43	wnw.	4.3	1.9	.....	.....	9	.....	.....	0	0	.....	Dr. Wierzbiski.
Eperies	28.74	730.0	29.58	751.3	70.0	21.1	42	s.	.....	.....	4	c8	6 8	.....	n.	0	0	.....	Julius Mikolik.
Gratz	28.34	719.7	29.54	750.4	61.7	16.5	82	s.	.....	.....	2	.....	10	.....	.....	0	0	.....	Andreas Rospini.
Hermannstadt	28.25	717.5	29.62	752 4	66.0	18.9	45	se.	.....	.....	2	.....	10	.....	.....	0.043	1.1	raining	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.17	715.4	29.47	748.5	58.3	14.6	73	ene.	.....	.....	3	.....	9	.....	.....	0.343	8.7	.....	The Staff.
Lemberg	28.66	727.9	29.60	751.9	68.9	20.5	38	sw.	.....	.....	2	.....	9	.....	.....	0	0	.....	Dr. T. Stanecki.
Pola	29.40	746.8	29.51	749.6	57.4	14.1	88	se.	.....	.....	4	.....	10	.....	.....	0.299	7.6	.....	I. R.Hydrographic Office.
Szathmar	29.17	741.0	29.62	752.4	74.3	23.5	35	s.	.....	.....	2	.....	9	.....	.....	0	0	.....	Joseph Midlinszky, S. J.
Szegedin	29.34	745.2	29.61	752.0	70.3	21.3	49	s.	.....	.....	2	.....	4	.....	.....	0	0	.....	Karl Stancel.
Trieste	29.44	747.7	29.54	750.3	61.9	16.6	68	e.	.....	.....	2	.....	10	.....	.....	0.480	12.2	.....	Rieder.
Vienna	28.84	732.5	29.53	750.0	66.7	19.3	45	sse.	.....	.....	3	.....	8	.....	.....	0	0	.....	I. R. Central Met. Obs'y.
BRITISH.																			
Aberdeen	29.54	750.3	29.64	752.8	46.0	7.8	60	s.	15	6.7	.....	.....	6	.....	.....	0.040	1.0	d. clouds	W. Boswell.
Armagh, Observatory	29.39	746.5	29.63	752.6	49.6	9.8	54	ssw.	18	8.0	.....	.....	10	.....	.....	.....	.....	overcast	S. Call.
Bidston, Liverpool Obs'y	.....	.....	29.73	755.1	47.0	8.3	77	w.	14	6.3	.....	.....	9	.....	.....	.....	.....	overcast	John Hartnup.
Bolton, Sharples	29.19	741.4	29.73	755.1	43.9	6.6	79	wsw.	24	10.7	.....	.....	10	.....	.....	.....	.....	overcast	Thomas Mackereth. [A.S.
Bradford, Yorkshire	29.30	744.2	29.70	754.4	48.1	8.9	55	sw.	.....	.....	1	.....	5	.....	.....	0.14	3.6	d. clouds	J.McLandsborough, F. R
Bridgetown, Barbadoes	29.95	760.7	29.98	761.5	84.0	28.9	67	ne.	.....	.....	2	.....	3	.....	.....	.....	.....	d. clouds	Corpl.J.Surgenor, A. H.C.
Cardington	.....	.....	29.74	755.4	53.0	11.7	63	nw.	.....	.....	0.4	.....	9	.....	.....	.....	.....	overcast	John McLaren.
Chatham, School M. E.	29.64	752.8	29.77	756.1	49.1	9.5	92	w.	.....	.....	1	.....	8	.....	.....	.....	.....	d. clouds	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	29.62	752.3	29.84	757.9	52.8	11.6	53	wnw.	.....	.....	2	.....	4	.....	.....	.....	.....	d. clouds	The Staff.
Fort Napier, Natal	27.60	701.0	29.82	757.4	93.0	33.9	22	ne.	.....	.....	1	.....	0	.....	.....	.....	.....	blue sky	Pvt. E. K.Annis, A. H.C.
Free Town, Sierra Leone	29.68	753.9	29.91	759.7	88.0	31.1	59	w.	.....	.....	1	.....	3	.....	.....	.....	.....	d. clouds	Sergt. John Robinson.
Gibraltar, Mediterranean	30.06	763.5	30.12	765.0	69.5	20.8	75	w.	.....	.....	4	.....	4	.....	.....	.....	.....	d. clouds	Opl. O. Baldwin.
Glasgow, Observatory	29.44	747.8	29.64	752.8	45.4	7.4	51	ssw.	.....	.....	3	.....	9 k	.....	.....	.....	.....	d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.60	751.8	29.77	756.1	47.0	8.3	54	w.	.....	.....	1	.....	10	.....	.....	.....	.....	overcast	The Staff.
Guernsey	29.56	750.8	29.86	758.4	52.0	11.1	72	nw.	.....	.....	1	.....	6	.....	.....	.....	.....	d. clouds	A. Collenette, F. M. S.
Kew, Observatory	29.75	755.6	29.79	756.7	49.5	9.7	42	w.	12	5.4	.....	.....	9	.....	.....	.....	.....	d. clouds	The Staff.
Leicester, Museum	29.49	749 0	29.74	755.4	52.4	11.3	40	nw	.....	.....	1	.....	8	.....	.....	.....	.....	d. clouds	J. C. Smith.
Malta, Mediterranean	29.70	754.4	29.78	756.4	69.0	20.6	62	se.	.....	.....	4	.....	6	.....	.....	.....	.....	d. clouds	I. H. Whysall.
Nassau, Bahamas	30.09	764.3	30.14	765.5	75.0	23.9	81	ne.	.....	.....	2	.....	5	.....	.....	.....	.....	d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.23	742.4	29.76	755.9	44.8	7.1	65	s.	.....	.....	0–1	.....	10	.....	.....	.....	.....	overcast	John Mac Email.
Oxford, Radcliffe Obs'y	29.54	750.3	29.77	756.1	50.0	10.0	45	wsw.	.....	.....	2	.....	7	.....	.....	.....	.....	d. clouds	The Staff.
Plymouth	29.74	755.4	29.82	757.4	53.0	11.7	65	wsw.	.....	.....	3	.....	5	.....	.....	.....	.....	d clouds	John Merrifield.
Sandwick Manse, Orkneys	.....	.....	29.60	751.8	41.2	5.1	83	nnw.	35	15.6	.....	.....	9	.....	.....	.....	.....	d. clouds	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.75	755.6	29.82	757.4	67.2	19.6	56	sw.	.....	.....	1	.....	6	.....	.....	.....	.....	d clouds	W. H. Lyne.
Sheffield	29.45	748.0	29.72	754.9	52.9	11.6	79	wsw.	.....	.....	1	.....	6	.....	.....	0.24	6.1	d clouds	W. F. Cooper.
Silloth Rectory	29.66	753.4	29.68	753.9	47.1	8.4	72	w.	.....	.....	2	.....	10	.....	.....	0	0	overcast	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	29.73	755.1	48.0	8.9	42	w.	9	4.0	.....	.....	10	.....	.....	.....	.....	overcast	Rev. S. J. Perry.
Stratfield Turgiss	.....	.....	.....	.....	50.6	10.3	56	w.	.....	.....	2	.....	8	.....	.....	.....	.....	d clouds	Rev.C.H.Griffiths, F.M.S
Truro, Royal Institution	29.77	756.1	29.80	756.9	57	13.9	69	sw.	.....	.....	6	.....	5	.....	.....	.....	.....	d. clouds	W. Newcombe.
Valencia, Observatory	29.62	752.3	29.65	753.1	52.6	11.4	72	sw.	29	13.0	.....	.....	7	.....	.....	.....	.....	d. clouds	The Met'g'l Office.
CANADIAN.																			
Bathurst, N. B.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.27	768.8	30.31	769 9	32	0.0	86	s.	1	0.4	.....	.....	10 8	.....	calm	0	0	fair	H. J Cundall, C. E.
Chatham, N. B*	30.25	768.3	30.31	769.9	33	0.6	71	calm	0	0	.....	5 k	0	ne.	.....	0	0	fair	G. A. Blair.
Father Point, Quebec*	30.28	769.1	30.30	769.6	34	1.1	85	e.	17	7.6	.....	0	0	.....	.....	0	0	fair	J. McWilliams.
Fort Garry, Manitoba*	29.06	738.1	29.91	759.7	35	1.7	92	n.	11	4.9	.....	5 k	5 n	n.	n.	0.110	2.8	cloudy	James Stewart.
Halifax, N. S*	30.18	766.6	30.31	769.9	40	4.4	73	ne.	3	1.3	.....	0	0	.....	.....	0	0	clear	A. Allison.
Kingston, Ontario*	29.68	753.9	30.03	762.7	40	4.4	67	ne.	8	3.6	.....	.....	10 k	.....	ne.	0	0	cloudy	A. P. Knight, M. A.
Montreal, Quebec*	29.92	760.0	30.13	765.3	37	2.8	64	ne	6	2.7	.....	0	0	.....	.....	0	0	clear	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.32	744.7	30.03	762.7	38	3.3	58	e.	4	1.8	.....	2 k	2 k8	se.	se.	0	0	fair	Rev. R. Mosley.
Port Dover, Ontario	29.26	743.2	29.97	761.2	38	3.3	91	ne.	8	3.6	.....	.....	10 k8	.....	w.	0	0	cloudy	H. Morgan.
Port Stanley, Ontario	29.30	744.2	29.96	761.0	37	2.8	69	nw.	5	2.2	.....	.....	8 k8	.....	w.	0	0	cloudy	M. Payne.
Quebec, Quebec*	29.90	759.4	30.24	768.1	37	2.8	75	ne.	.....	.....	6	0	0	.....	.....	0	0	clear	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.61	752.1	30.09	764.3	29	1.7	70	calm	0	0	.....	2 ck	0	.....	.....	0	0	fair	W. H. McIntyre.
Saugeen, Ontario*	29.27	743.4	30.01	762.2	35	1.7	89	e.	4	1.8	.....	.....	10 8	.....	.....	0	0	cloudy	
St. Andrews, N. B	30.23	767.8	30.28	769.1	37	2.8	82	se.	2	0.9	.....	.....	10 n	.....	.....	0	0	clear	
Sydney, C. B*	30.26	768.6	30.32	770.1	33	0.6	78	calm	0	0	.....	.....	10 8	.....	.....	0	0	cloudy	T. C. Hill, C. E.
Toronto, Ontario*	29.62	752.3	30.01	762.2	42	5.6	62	ne.	16	7.2	.....	5 ck	2 k8	w.	w.	0	0	cloudy	Magnetic Observatory.
Yarmouth, N. S*	30.23	767.8	30.30	769.6	38	3.3	92	se.	1	0.4	.....	8 ck	0	w.	.....	0	0	fair	Lt. F. E. Wilmot, R. N.
Sub-series.																			
St. Johns, Newfoundland	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	John Delany.
CAPE COLONY.																			
Cape St. Francis Lt. House	29.96	761.0	29.99	761.7	72.0	22.2	69	w.	7.3	3.3	.....	0	2 k	.....	.....	0	0	light haze	John Duthie.
Cape Town, C. G. H. Obs'y	29.97	761.2	30.00	762.0	68.5	20.3	78	wnw.	17	7.6	.....	0	1	.....	.....	0	0	.....	The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Chinese (Sub-series).																			
Hankow	29.78	756.4	30.06	763.5	63.4	17.4	90	w.			2		0			1.99*	50.5*		N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.71	754.7	29.74	755.3	60.3	15.7	85	wnw.	17.2	7.7			10 kn		wnw.	0.276	7.0	covered	M. Marc Dechevrens, S.J.
Danish.																			
Copenhagen	29.41	746.9	29.45	748.1	53.2	11.8	72	wnw.	11	5			10						Oversergent Fischer.
Fanöe	29.52	749.9	29.54	750.4	46.2	7.9	85	wnw.			4		10						Overloerer Lauridsen.
Godthaab, Greenland	30.01	762.2	30.05	763.3	27.1	— 2.7	85	calm			0		0						S. Kleinschmidt.
Stykkisholm, Iceland	29.71	754.6	29.75	755.7	18.7	— 7.4	95	ne.			8		2						A. O. Thoriacius.
Thorshavn	29.45	748.0	29.48	748.9	41.5	5.3	76	sse.	16	7			10						Overloerer Bergh.
Vestervig	29.43	747.5	29.45	748.0	44.6	7.0	87	wnw.			4		10						Loerer Oesterbol.
French.																			
Agen, Normal School	29.29	744.0	29.94	760.4	55.0	12.8	77	nw.			2		kn		nw.	0.169	4.3		M. Labroue, Director.
Alençon, Normal School	29.30	744.2	29.85	758.2	50.7	10.4	86	n.			1		n	ne.	ne.	0	0		M. Nicot, Director.
Arras, Engineer School	29.52	749.9	29.78	746.5	50.7	10.4	52	nw.			2	ck	0			0.110	2.8		Capt. Bertrand, Dir.
Avginon, Normal School	29.58	751.2	29.65	753.2	54.3	12.4	54	n.			3		8		n.	0.268	6.8	very cloudy	M. Giraud, Director.
Bar-sur-Seine	29.25	743.0	29.81	757.1	51.4	10.8	53	e.			1		10			0	0	covered	M. Saillard, Director.
Beauvais, Normal School	29.55	750.5	29.82	757.3	53.1	11.7	45	n.			1		8		nw.	0.031	0.8	very cloudy	M. Frère Eugène Marl.
Besançon, Normal School	28.78	731.0	29.66	753.4	52.5	11.4	59	ne.			3	0	8 kn		sw.	0	0	very cloudy	M. Gobin, Director.
Bordeaux, Observatory	29.66	753.3	29.92	760.0	52.4	11.4	61	wnw.			1		8		nnw.	0.39	10.	very cloudy	M. Rayet, Director.
Bourges, Normal School	29.32	744.8	29.91	759.8	53.6	12	54	wnw.			2		k		nnw.	0	0		M. Postel, Director.
Brest, Naval Observatory	29.68	753.8	29.92	760.0	57.9	14.4	65	w.			1	0	5 k		w.	0.031	0.8		M. de Kermaree, Dir.
Caen, Normal School	29.76	755.8	29.83	757.7	51.8	11	75	nw.			1		10		nw.	0	0	covered	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.41	747.1	29.73	755.2	51.4	10.8	64	w.			2		8			0	0	very cloudy	M. Jadot, Director.
Charleville, Normal School	29.23	742.5	29.74	755.5	49.6	9.8	72	s.			1		5			0	0	½ covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.47	723.1	29.82	757.3	54.0	12.2	57	nw.			2		8			0.961	24.4	¾ covered	M. Alluard, Director.
Cluny, Normal School	28.92	734.5	29.76	755.8	50.9	10.5	63	nw.			4			nnw.		0.055	1.4		M. de Villeimontée, Dir.
Commercy, Normal School	28.91	734.2	29.78	756.3	48.4	9.1	53	nw.			3		8 n	nw.	nw.	0	0	very cloudy	Dr. Coulet, Director.
Gap, Normal School	26.98	685.4	29.49	749.0	48.2	9	61	n.			4	0	3 k		nw.	0.31	8.		M. Jeangirard, Director.
Grénasque, du. Rhone	28.40	721.4	29.52	749.7	51.6	10.9	54	nw.			6		5		nw.	0.283	7.2		M. Kina, Director.
Grenoble, Normal School	28.92	734.5	29.69	754.2	45.0	7.2	85	n.			2		10			0.008	0.2	raining	M. Ablard, Director.
Guéret, Normal School	28.26	717.7	29.87	758.8	45.0	7.2	74	w.			1		11		w.	0.08	2.		M. Rivoire, Director.
Lamballe, Normal School	29.60	751.8	29.87	758.6	55.8	13.2	43	n.			1		5		n.	0.020	0.5	cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.37	746.0	29.93	760.1	64.4	18	77	e.			1		10			0.992	25.2	covered	M. Chauvin, Director.
Lorient, Naval Observatory	29.84	758.0	29.95	760.6	55.0	12.8	61	calm			0		10	n.	w.	0.079	2.0	covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.70	728.9	29.75	755.6	50.0	10.0	58	n.			2		10 n	n.	n.	0.465	11.8	covered	M. André, Director.
Mans, Normal School	29.56	750.9	29.87	758.7	54.7	12.6	57	nw.			3		5		se.	0	0	cloudy	M. Piboen, Director.
Marseille, Observatory	29.29	744.0	29.56	750.8	55.6	13.1	37	nnw.			8.9		1		nw.	0.094	2.4		M. Stephan, Director.
Montlouis l'Instituteur	24.58	624.4	29.43	747.4	38.3	3.5	64	sw.	11.2	5.0			8						M. Cave, for Dr. Fines.
Montpellier, Normal School	29.54	750.3	29.67	753.6	59.0	15	41	nnw.			4		8		nw.	0	0	very cloudy	M. Galzin, Director.
Nancy, Normal School	28.95	735.2	29.74	755.3	47.8	8.8	50	nw.			1	ck	5 n			0	0	cloudy	M. Hasse, Director
Nantes, Observatory	29.73	755.2	29.89	759.3	57.4	14.1	47	nw.			1–2		9 k; ku	wnw.	wnw.	0	0		M. Laroque, Director.
Perpignan, Observatory	29.69	754.1	29.80	756.9	53.8	12.1	54	nw.	28.0	12.5			8		nnw.	0.437	11.1		Dr. Fines, Director.
Pic-du-Midi, Summit	20.94	531.8			14.9	— 9.5		n.			2–3		10		n.	0.724	18.4	snowy	Gen'l de Nansouty, Dir.
Privas, Normal School	28.58	726.0	29.65	753.0	49.6	9.8	52	n.			4		5	n.		0.402	10.2	cloudy	M. Tallien.
Puy de Dôme Obs'y, Summit	24.87	631.6			29.8	— 1.2	100	nnw.			4		10			0.815	20.7	foggy	M. Alluard, Director.
Rochefort, Naval Obs'y	29.90	759.4	29.93	760.2	59.0	15.0	93	nw.			2		2		w.	0.028	0.7	¼ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.58	751.2	29.79	756.6	52.9	11.6	84	ene.			1		5		e.	0.31	8.	cloudy	M. Mouillot, Director.
Rodez, Normal School	27.67	702.9	29.84	757.8	46.6	8.1	65	nw.			4		10			0.362	9.2	covered	M. Serger, Director.
Rouen, Normal School	29.76	755.9	29.81	757.1	52.2	11.2	58	nw.			1		8	w.		0	0	very cloudy	M. Brotier.
Saint Maur, Observatory	29.66	753.3	29.82	757.5	51.4	10.8	58	nnw.			1		10		nw.	0	0		M. Renou, Director.
Toulouse, Observatory	29.20	741.6	29.92	759.9	53.1	11.7	67	nw.			4		5	nw.		0.110	2.8	cloudy	M. Bailland, Director.
Versailles, Observatory	29.33	745.0	29.82	757.5	50.0	10.0	60	w.			1					0.016	0.4		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.53	750.1	29.82	757.5	51.8	11.0	61	wnw.			1		10		wnw.	inap.	inap.		M. Marié Davy, Director
German.																			
Bamberg	28.79	731.2	29.63	752.6	52.2	11.2	50	nw.			2	0	8 k8			0	0		Prof. Dr. Hoh.
Berlin	29.43	747.6	29.61	752.0	59.0	15.0	34	sw.			3		6			0	0		Prof. Dr. Arndt.
Breslau	29.11	739.5	29.64	752.8	58.8	14.9	54	nw.			2		3			0	0		Royal University Obs'y.
Carlsruhe	29.28	743.0	29.71	754.6	51.6	10.9	62	n.			1		10	n.		0	0		Albert Senz.
Cassel	28.92	734.6	29.63	752.7	51.4	10.8	53	nw.			3		8	nw.		0	0		Dr. H. Möhl.
Frankfort on the Main	29.30	744.3	29.67	753.5	54.3	12.4	46	nnw.			1		9			0	0		Physical Society.
Friedrichshafen	28.24	717.4	29.70	754.4	41.0	5.0	92	nnw.			4		10	nne.		1.050	26.7		Wilhelm, Chief Tel.
Hamburg	29.52	749.9	29.62	752.3	49.8	9.9	74	nw.			4		10			0.157	4.0	hazy	E. Preller.
Kiel	29.54	750.2	29.55	750.6	50.2	10.1	71	wsw.			1		10			0.154	3.9		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.22	742.2	29.63	752.7	57.6	14.2	48	w.			3		7	w.		0	0		H. Leppig, Asst.
Magdeburg	29.43	747.6	29.62	752.3	56.5	13.6	47	w.			2	0	5 k		sw.	0	0		Dr. Assmann.
Memel	29.60	751.9	29.65	753.1	51.4	10.8	70	w.			1	0	6 k8						Issermann.
Munich	27.74	704.6	29.58	751.2	49.5	9.7	78	n.			1		10	e.		0.106	2.7	raining	Central Station.
Neufahrwasser	29.58	751.2	29.59	751.6	63.9	17.7	31	sw.			3		4	sSW.		0	0		A. Lothes.
Neustadt, Palatinate	29.16	740.6	29.68	753.8	52.5	11.4	63	n.			2		10			0	0		Dicknether.
Stuttgart	28.71	729.3	29.61	752.0	47.8	8.8	86	w.			1		10			0.031	0.8		Prof. Dr. Schoder.
Wustrow	29.54	750.2	29.56	750.7	48.0	8.9	89	sw.			4		10			0	0		Profs. Brandes & Reimer.
Greek.																			
Athens	29.49	749.0	29.87	758.8	68.c	20.0		sw.			2.0	3				0	0		Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.75	755.6	29.80	756.9	84.8	29.3	76	sw.	32.0	14.3			0			0	0	misty	
Deesa	29.27	743.5	29.72	755.0	102.3	39.1	19	sw.	10.1	4.5			0			0	0	blue sky	
Bombay	29.77	756.2	29.81	757.1	86.3	30.2	73	w.	13.0	5.8			2	wnw.		0	0	d. clouds	
Poona, Yarrowda	27.91	708.9	29.70	754.4	96.3	35.7	28	wsw.	23.0	10.3			2	wnw.		0	0	d. clouds	
Belgaum	27.29	693.2	29.83	757.6	76.5	24.7	71	wsw.	7.0	3.1			8	w.	e.	1.34	34.0	thud'rstorm	
Lahore	28.93	734.9	29.64	752.9	101 2	38.4	14	e.	1.2	0.5			0			0	0	blue sky	
Roorkee	28.79	731.3	29.66	753.3	97 7	36.5	10	w.	0.8	0.4			0			0	0	blue sky	
Agra	29.12	739.6	29.66	753.3	104.8	40.4	10	n.	3.3	1.5			0			0	0		
Nagpur	28.67	728.1	29.66	753.4	104.2	40.1	5	sse.	3.5	1.6			0			0	0	blue sky	
Jubbulpore	28.38	720.9	29.68	753.9	102.2	39.0	8	calm	2.1	0.9			1			0	0	blue sky	
Lucknow	29.32	744.7	29.68	753.9	102.4	39.1	11	calm	1.0	0.4			0			0	0	blue sky	
Allahabad	29.39	746.4	29.68	754.0	101.0	38.3	10	nnw.	2.3	1.0			0			0	0	blue sky	
Patna	29.54	750.2	29.72	754.8	96.5	35.8	20	ne.	4.0	1.8			0			0	0	blue sky	
Hazaribagh	27.76	705.0	29.71	754.5	92.8	33.8	12	nw.	7.9	3.5			0			0	0	blue sky	
Cuttack	29.66	753.4	29.74	755.4	92.2	33.4	46	s.	3.2	1.4			0			0	0	blue sky	
Calcutta, Alipore	29.72	754.8	29.74	755.3	92.2	33.4	44	s.	10.0	4.5			0			0	0	blue sky	
Dhubri	29.65	753.0	29.76	755.9	88.2	31.2	56	ene.	8.2	3.7			0			0	0	blue sky	
Chittagong	29.73	755.0	29.82	757.3	84.2	29.0	76	w.	3.7	1.6			0			0	0	blue sky	
Sibsagar	29.51	749.5	29.84	758.0	81.7	27.6	68	ne.	5.2	2.3			0			0.02	0.5	blue sky	
Jeypore	28.26	717.9	29.64	752.9	102.4	39.1	10	wnw.	8.6	3.8			0			0	0	blue sky	
Zanzibar, Africa	29.93	760.2			83.7	28.7	75	s.	5.9	2.6			7		se.	0.59	15.0	threatening	
Bellary	28.29	718.6			98.8	36.9	14	e.	5.0	2.2		6 ck	0	sw.		0	0	d. clouds	
Trichinopoly	29.53	750.0			95.6	35.3	45	s.	2	0.9			0			0	0	blue sky	
Italian.																			
Udine	29.14	740.1	29.54	750.4	57.0	13.9	92	e.		3.1	1.4		10			2.095	53.2		Prof. Giovanni Clodig.
Milan	28.91	734.2	29.42	747.2	50.5	10.3	90	n.		11.9	5.3		10		se.	1.539	39.1		Prof. Schiaparelli.
Padua	29.35	745.5	29.46	748.3	56.8	13.8	93	ese.		19.2	8.6		10		se.	0.591	15.0		Prof. Dott. Lorenzoni.
Moncalieri	28.56	725.4	29.46	748.2	49.5	9.7	91	nw.		4.3	1.9		10		n.	1.220	31.0		Prof. P. F. Denza.
Genoa	29.23	742.5	29.42	747.3	58.3	14.6	78	sw.		2.5	1.1		10		s.	1.130	28.7		Prof. G. M. Garibaldi.
Mondovi	27.56	699.9	29.52	749.7	45.3	7.4	92	w.				6	10			0.657	16.7		Prof. D. C. Bruno.

* Total for last 3 days.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
ITALIAN.—Continued.																			
Pesaro	29.40	746.8	29.45	748.0	62.8	17.1	79	se.	8.1	3.6	.....	.....	10	sw.	.....	0	0	.....	Prof. Luigi Guidi.
Florence	29.23	742.4	29.48	748.8	59.0	15.0	84	s.	.....	.....	2	.....	10	.....	.....	2.051	52.1	.....	Prof. Costantino Pitter.
Leghorn	29.33	744.9	29.41	747.0	60.1	15.6	71	wsw.	8.1	3.6	.....	.....	5	wsw.	.....	0.394	10.0	.....	Prof. P. Monte.
Rome	29.35	745.4	29.52	749.8	64.8	18.2	72	s.	21.7	9.7	.....	.....	10	.....	.....	0.087	2.2	.....	Prof. P. S. Ferrari.
Lecce	29.51	749.6	29.76	755.9	63.7	17.6	79	ssw.	51.0	22.8	.....	.....	10	se.	.....	0.012	0.3	.....	Prof. O. de Giorgi.
Cosenza	28.85	732.9	29.74	755.3	63.0	17.2	76	wsw.	3.8	1.7	.....	.....	10	sw.	.....	0.016	0.4	.....	Prof. D. Conti.
Cagliari	29.37	746.1	29.57	751.0	67.6	19.8	47	nw.	.....	.....	4	.....	7	w.	.....	0.276	7.0	.....	Prof. A. Pacinotti.
Palermo	29.41	747.0	29.66	753.3	73.0	22.8	39	wsw.	12.5	5.6	.....	.....	10	wsw.	.....	0	0	.....	Prof. G. Ciacciatore.
Syracuse	29.70	754.3	29.74	755.4	68.0	20.0	79	sse.	9.4	4.2	.....	.....	10	sw.	.....	0	0	.....	Prof. Vincenzo Gulliano.
Sub-series.																			
Naples, S. R	29.10	739.0	29.61	752.1	58.6	14.8	91	w.	8.7	3.9	.....	.....	10	ssw.	.....	0.075	1.9	.....	Prof. T. Brioschi.
Stelvio	27.68	550.7	.....	.....	32.9	0.5	94	ne.	.....	.....	4	.....	10	.....	.....	0.555	14.1	covered	Prof. P. F. Denza.
Valdobbia	21.69	550.9	.....	.....	31.8	— 0.1	81	e.	.....	.....	6	.....	10	.....	.....	0.063	1.6	covered	Prof. P. F. Denza.
JAPANESE.																			
Aomori	29.97	761.2	30.00	762.0	49.6	9.8	90	nne.	3.2	1.4	.....	0	6 s	.....	.....	0	0	.....	K. Ogawa.
Hakodate	30.04	763.0	30.05	763.3	48.0	8.9	96	ene.	12.0	5.4	.....	.....	10	.....	.....	0	0	covered	
Hiroshima, I. M. Obs'y	29.53	750.0	29.54	750.3	58.0	14.4	98	nne.	2.2	1.0	.....	.....	10 n	.....	.....	2.065	52.4	light rain	K. Sasaki.
Kanazawa	29.68	753.9	29.78	756.4	56.9	13.8	83	ene.	4.7	2.1	.....	.....	10 n	.....	.....	0.070	1.8	raining	S. Endo.
Kioto	29.60	751.8	29.77	756.1	60.0	15.6	86	ene.	8.1	3.6	.....	.....	10 n	.....	.....	1.320	33.5	light rain	M. Tojima.
Kochi	29.66	753.3	29.68	753.9	61.8	16.6	94	.....	10.4	4.6	.....	.....	10 n	.....	sw.	4.180	106.2	raining	
Nagasaki, I. M. Obs'y	29.36	745.7	29.56	750.8	61.2	16.2	90	sw.	16.6	7.4	.....	.....	10 n	.....	.....	1.880	47.8	light rain	S. Takehayashi.
Niigata	29.82	757.4	29.85	758.2	65.9	18.8	59	se.	16.3	7.3	.....	10 ck	0	.....	.....	0.170	4.3	covered	
Nobiru	29.99	761.7	30.01	762.2	56.7	13.7	87	sse.	28.0	12.5	.....	.....	10 ks;s	.....	.....	0.500	12.7	.....	H. Midzushima.
Supporo	.....	.....	.....	.....	49.9	9.9	85	sse.	18.0	8.0	.....	.....	10	.....	.....	0.045	1.1	covered	
Tokei Obs'y, Yeddo	29.91	759.7	29.98	761.5	59.3	15.2	100	s.	6.3	2.8	.....	.....	10 n	.....	s.	0.850	21.6	light rain	The Staff.
Wakayama	29.65	753.1	29.70	754.4	58.7	14.8	95	ene.	2.4	1.1	.....	1 ck	9 n	w.	s.	1.237	31.4	light rain	Y. Kuwamura.
MAURITIUS.																			
Mauritius Observatory	29.87	758.7	30.06	763.5	78.6	25.9	70	e.	16.5	7.4	.....	0	3 k;n	.....	.....	0	0	fair	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.66	601.0	29.88	759.0	64.6	18.1	58	se.	.....	.....	.....	.....	fg	.....	.....	0	0	foggy	Vicente Fernandez.
Leon	24.37	619.0	30.03	762.7	62.6	17.0	63	nne.	.....	.....	1	1 c	1 s	sw.	e.	0	0	.....	Prof. M. Leal.
Mazatlan	29.64	752.9	29.90	759.6	65.5	18.6	86	wnw.	0.9	0.4	.....	1 cs	0	.....	.....	0	0	foggy	F. Quijano, U. E.
Mexico, Central Obs'y	23.10	586.7	30.17	766.2	54.5	12.5	50	calm	0	0	.....	0	0	.....	.....	0	0	foggy	The Staff.
Morelia	24.26	616.3	30.37	771.3	62.2	16.8	72	s.	.....	.....	3	0	0	.....	.....	0	0	fine	M. Tena, M. D.
Pabellon, Aguascalientes	23.96	608.5	29.93	760.2	63.1	17.3	63	w.	.....	.....	1	0	0	.....	.....	0	0	foggy	M. V. de Leon, M. E.
Puebla, Catholic Institute	23.38	593 9	30.17	766.4	50.9	10.5	80	calm	0	0	.....	0	0	.....	.....	0	0	clear	Prof. P. Spina.
San Luis Potosi	24.18	614.3	30.16	766.0	63.5	17.5	49	e.	.....	.....	1	0	0	.....	.....	0	0	clear	G. Barroeta, M. D.
Zacatecas	22.54	572.6	30.13	765.2	60.2	15.8	45	.....	.....	.....	.....	0	0	.....	.....	0	0	fine	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.74	755.5	29.74	755.5	49.6	9.8	.....	wnw.	.....	.....	4	.....	.....	.....	.....	0.118	3.0	.....	
Groningen	29.60	751.8	29.65	753.2	50.5	10.3	.....	nw.	.....	.....	3	.....	.....	.....	.....	0.268	6.8	.....	
Helder	29.67	753.5	29.67	753.5	47.3	8.5	.....	nnw.	.....	.....	2	.....	.....	.....	.....	0	0	.....	
Hellevoetsluis	29.67	753.5	29.67	753.5	50.4	10.2	69	wnw.	.....	.....	3	.....	.....	.....	.....	0.161	4.1	.....	
Utrecht	29.65	753.0	29.69	754.2	52.2	11.2	66	w.	.....	.....	1	.....	8	.....	.....	0.240	6.1	very cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.30	744.3	29.37	745.9	50.0	10.0	57	nnw.	13	6	.....	.....	5	.....	.....	0	0	.....	
Brono	29.49	749.0	29.53	750.0	47.3	8.5	50	w.	9	4	.....	.....	2	.....	.....	0	0	.....	
Christiania	29.21	741.9	29.35	745.6	47.1	8.4	77	n.	9	4	.....	.....	10	.....	.....	0.508	12.9	.....	
Gjæsvær	29.46	748.2	29.48	748.8	38.1	3.4	.....	calm	.....	.....	0	.....	10	.....	.....	.....	.....	.....	
Lodingen	29.45	748.1	29.50	749.3	38.3	3.5	66	wsw.	.....	.....	4	.....	9	.....	.....	.....	.....	.....	
PORTUGUESE.																			
Angra, Azores	.....	.....	.....	.....	62.6	17.0	81	w.	11.9	5.3	.....	.....	3	.....	.....	0	0	.....	Dr. J. A. Sampaio.
Campo Major	29.09	738.9	30.09	764.2	62.6	17.0	39	wnw.	8.7	3.9	.....	.....	3	.....	.....	0	0	.....	Dr. A. M. R. dos Santos.
Funchal, Maderia	30.20	767.0	30.28	769.2	67.5	19.7	71	sw.	.....	.....	.....	.....	1	.....	.....	0	0	.....	Capt. D. A. de Cunha.
Lisbon, Observatory	29.84	757.8	30.20	767.0	61.3	16.3	45	nnw.	13.6	6.1	.....	.....	7	.....	.....	0	0	.....	The Staff.
Ponta Delgada, Azores	30.37	771.3	30.44	773.1	67.6	19.8	68	wnw.	4.3	1.9	.....	.....	4	.....	.....	0	0	.....	
Saint Paul de Loando	29.72	754.9	29.92	759.9	83.8	28.8	82	wnw.	0.7	0.3	.....	.....	1	sse.	.....	0	0	.....	
Serra da Estrella	25.29	642.4	30.14	765.7	37.4	3.0	91	nw.	18.6	8.3	.....	.....	9	.....	.....	0.630	16.0	.....	
RUSSIAN.																			
Akmolinski	28.77	730.7	29.84	758.0	48.7	9.3	54	ene.	13	6	.....	.....	9 k	.....	.....	0.028	0.7	.....	Major K. Lasarew.
Archangel	29.78	756.5	29.80	757.0	50.5	10.3	81	n.	4	2	.....	0	0	.....	.....	0	0	.....	Capt. Sselliwerstow.
Astrakhan	29.93	760.3	29.85	758.2	52.9	11.6	69	calm	0	0	.....	.....	10 s;n	.....	.....	0.138	3.5	.....	Capt. Wisganow.
Barnaul	29.72	754.9	30.24	768.0	41.0	5.0	31	ne.	22	10	.....	.....	0	.....	.....	0	0	.....	Meteorological Obs'y.
Dorpat	29.35	745.4	29.58	751.3	70.0	21.1	42	s.	16	7	.....	0	8 k	.....	.....	0.008	0.2	.....	Observatory.
Ekaterinburg	28.97	735.9	29.93	760.3	50.2	10.1	60	se.	9	4	.....	5 ck	0	.....	.....	0	0	.....	Meteorological Obs'y.
Kasan	29.55	750.6	29.83	757.6	40.5	4.7	86	ese.	7	3	.....	.....	10	.....	.....	0.012	0.3	.....	Observatory.
Kertch	29.82	757.3	29.84	757.8	58.1	14.5	54	s.	4	2	.....	1 c	0	.....	.....	0	0	.....	Lagorio & Sastyrex.
Kieff	29.10	739.0	29.71	754.6	64.2	17.9	42	calm	0	0	.....	ck	1 ks	.....	.....	0	0	.....	Observatory.
Lugan	29.60	751.7	29.80	756.8	59.9	15.5	39	nw.	13	6	.....	.....	9	.....	.....	0	0	.....	Meteorological Obs'y
Moscow	29.29	743.9	29.75	755.7	57.0	13.9	45	sw.	4	2	.....	0	3 ks	.....	.....	0	0	.....	Meteorological Obs'y.
Nikolaiev	29.78	756.4	29.85	758.2	68.0	20.0	35	s.	9	4	.....	0	0	.....	.....	0	0	.....	Capt. Kurdakow.
Nikolaievsk, on the Amoor	29.47	748.6	29.56	750.8	39.2	4.0	78	e.	13	6	.....	.....	10	.....	.....	0	0	.....	Lieut. Iwanow.
Pekin, China	29.48	748.7	29.62	752.3	64.2	17.9	67	calm	0	0	.....	0	4 k	.....	.....	0.020	0.5	.....	Physical Observatory
St. Petersburg	29.67	753.6	29.69	754.0	64.2	17.9	42	sse.	18	8	.....	0	3 k	.....	.....	0	0	.....	Central Physical Obs'y
Semipolatinsk	29.33	744'9	29.98	761.5	55.0	12.8	34	ne.	31	14	.....	0	0	.....	.....	0	0	.....	Major Lasaren.
Tashkend, Laboratory	28.36	720.3	29.91	759.6	62.2	16.8	80	calm	0	0	.....	.....	10	.....	.....	blank	blank	heavy cl'ds	Teich, A. M.
Tiflis	28.53	724.7	29.93	760.2	61.7	16.5	43	nw.	13	6	.....	9 ck	0	.....	.....	0	0	.....	Physical Observatory
Vladivostock	29.79	756.6	29.85	758.3	41.0	5.0	92	sse.	9	4	.....	.....	10 n	.....	.....	0	0	.....	
Warsaw	29.18	741.2	29.59	751.5	68.4	20.2	43	ssw.	4	2	.....	0	8 k;ks	.....	.....	.....	.....	.....	Astronomical Obs'y
Wilna	29.20	741.7	29.61	752.0	65.8	18.8	52	ssw.	4	2	.....	.....	10	.....	.....	0	0	heavy cld's	Berg, Assistant.
Yeniseisk	30.00	762.0	30.30	769.6	35.6	2.0	44	wsw.	11	5	.....	.....	10	.....	.....	0	0	light clouds	M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	29.68	753.8	29.78	756.5	63.1	17.3	59	se.	4.3	1.9	.....	.....	2	.....	.....	0.075	1.9	.....	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.01	762.2	30.07	763.7	60.3	15.7	59	nw.	7.6	3.4	.....	2	7	n.	.....	0.343	8.7	almost cov'd	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.04	686.8	29.95	760.7	63.0	17.2	54	n.	12.3	5.5	.....	.....	7	.....	.....	0	0	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27.76	705.2	29.97	761.3	60.8	16.0	30	nw.	15.4	6.9	.....	0	5	.....	.....	0	0	cloudy	The Staff.
Murcia, Met. Obs'y	29.77	756.1	29.92	759.9	72.5	22.5	40	wnw.	7.4	3.3	.....	2	3	se.	.....	0	0	clouds	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.14	740.2	30.03	762.8	60.6	15.9	70	w.	8.7	3.9	.....	.....	7	.....	.....	0.059	1.5	cloudy	R. Gil Vallanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I	30.00	762.0	30.07	763.6	71.6	22.0	80	se.	3.1	1.4	.....	ck	0	wnw.	.....	0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.86	758.5	29.92	759.9	84.5	29.2	82	ssw.	8.8	3.9	.....	0	2 ck	.....	w.	0	0	clear	F. Faura, S. J.
San Fernando, Naval Obs'y	30.06	763.4	30.15	765.9	63.9	17.7	57	w.	3.6	1.6	.....	0	5	.....	ne.	0	0	.....	Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	29.92	759.9	30.01	762.2	77.4	25.2	87	s.	4.5	2.0	.....	7 cs	8 kn	s.	s	0.354	9.0	cloudy	Manuel Maeu.
Tuguegarao, Philippine Id's	29.78	756.4	29.91	759.7	81.2	27.3	79	nw.	9.4	4.2	.....	0	8 ks	.....	sw.	0	0	covered	José L. Yrastorza.
SWEDISH																			
Haparanda	29.55	750.5	29.59	751.5	37.4	3.0	96	se.	.....	.....	2	.....	10	.....	.....	0.35	8.9	raining	
Umea	29.44	747.7	29.49	749.0	41.4	5.2	97	nne.	.....	.....	2	.....	10	.....	.....	0.516	13.1	.....	
Hernosand	29.38	746.2	29.43	747.5	41.7	5.4	91	calm	.....	.....	0	.....	10	.....	.....	0.173	4.4	.....	
Stockholm	29.21	742.0	29.39	746.5	53.6	12.0	49	ssw.	.....	.....	6	.....	10	.....	.....	0.098	2.5	.....	
Wisby	29.37	746.0	29.43	747.5	52.2	11.2	66	sw.	.....	.....	6	.....	3	.....	.....	0.122	3.1	.....	
Sub-series.																			
Upsala	29.25	743.0	29.34	745.2	54.7	12.6	48	s.	19.0	8.5	.....	.....	7	ssw.	s.	0.047	1.2	.....	S. G. Fineman.
SWISS.																			
Geneva	28.31	719.0	29.77	756.1	42.8	6.0	88	nnw.	.....	.....	2	.....	.....	.....	.....	0.409	10.4	covered	The Observatory

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Turkish.																			
Constantinople	.....	.....	29.85	758.3	72.9	22.7	41	sw.	11	5.0	.....	.....	4	.....	n.	0	0	.....	The Observatory.
Valona	.....	.....	29.89	759.1	62.2	16.8	.....	sw.	.....	.....	2	.....	10	.....	.....	0	0	covered	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	30.06	763.5	68.9	20.5	65	wnw.	.....	.....	1	1 c	0	.....	.....	0	0	.....	Prof. C. V. A. van Dyck.
United States.																			
Albany, New York	29.97	761.2	30.05	763.3	47.5	8.6	52	se.	5	2.2	.....	.....	10 s	.....	se.	0	0	cloudy	J. O. Barnes.
Alpena, Michigan	29.34	745.2	30.03	762.7	35	1.7	64	w.	1	0.4	.....	5 cs	3 k	w.	w.	0	0	cloudy	Jas. J. Fitzgerald.
Atlanta, Georgia	28.86	733.0	30.05	763.3	64.0	17.8	93	n.	5	2.2	.....	.....	10 s	.....	calm	0	0	cloudy	H. Hall.
Atlantic City, New Jersey	29.77	756.1	29.78	756.4	46	7.8	96	n.	12	5.4	.....	.....	10 s	.....	n.	1.74	44.2	cloudy	Jas. M. Watson.
Augusta, Georgia	29.85	758.2	30.04	763.0	63.5	17.5	87	s.	2	0.9	.....	4 c	0	nw.	.....	0	0	fair	John Healy.
Baltimore, Maryland	29.90	759.4	29.95	760.7	47	8.3	86	n.	6	2.7	.....	.....	10 s	.....	ne.	1.37	34.8	cloudy	Robert Seyboth.
Barnegat, New Jersey	29.77	756.1	29.79	756.7	44.0	6.7	100	n.	25	11.2	.....	.....	10 n	.....	.....	2.14	54.4	light rain	Chas. F. Merritt.
Bismarck, Dakota	28.17	715.5	30.04	763.0	38	3.3	82	nw.	16	7.2	.....	.....	10 s	.....	nw.	0	0	cloudy	Cyrus Cramer.
Boise City, Idaho	27.37	695.2	30.21	767.3	47	8.3	77	w.	4	1.8	.....	0	0	.....	.....	0	0	clear	B. E. Light.
Boston, Massachusetts	29.96	761.0	30.12	765.0	39.0	3.9	89	e.	20	8.9	.....	.....	10 n	.....	.....	0.02	0.5	light rain	O. B. Cole.
Brownsville, Texas	29.85	758.2	29.90	759.4	75	23.9	90	se.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. C. Galloway.
Buffalo, New York	29.20	741.7	29.96	761.0	40	4.4	79	ne.	6	2.7	.....	.....	10 s	.....	ne.	0	0	cloudy	Wm. Finn.
Burlington, Vermont	29.81	757.2	30.11	764.8	39.0	3.9	82	calm	0	0	.....	3 ck	0	se.	.....	0	0	clear	G. C. Schaeffer.
Cairo, Illinois	29.71	754.6	30.12	765.0	54.6	12.6	82	ne.	13	5.8	.....	2 c	0	w.	.....	0.10	2.5	clear	W. H. Ray.
Campo, California	27.40	695.9	29.98	761.5	37.2	2.9	72	s.	4	1.8	.....	0	0	.....	.....	0	0	clear	W. H. Clendenon.
Camp Thomas, Arizona	27.18	690.4	29.91	759.7	50	10.0	63	calm	.....	.....	0	0	2 k	.....	.....	0	0	clear	J. T. Fitzgerald.
Cape Henry, Virginia	29.86	758.4	29.88	758.9	66	18.9	73	sw.	20	8.9	.....	0	0	.....	.....	0.10	2.5	clear	J. E. Lanouette.
Cape May, New Jersey	29.80	756.9	29.82	757.4	48	8.9	86	nw.	20	8.9	.....	.....	10 s	.....	nw.	1:16	29.5	cloudy	W. Bolton.
Cedar Keys, Florida	30.07	763.8	30.09	764.3	72	22.2	76	se.	8	3.6	.....	1 ck	0	.....	.....	0	0	clear	F. W. Mixer.
Champaign, Illinois	29.24	742.7	30.08	764.0	47.8	8.8	89	nw.	6	2.7	.....	.....	10 s	.....	nw.	0.01	0.3	cloudy	L. A. Welsh.
Charleston, S. Carolina	29.97	761.2	30.03	762.7	70	21.1	84	sw.	12	5.4	.....	5 ck	3 s	sw.	ne.	0	0	cloudy	J. H. Smith.
Charlotte, N. Carolina	29.10	739.1	29.96	761.0	61.0	16.1	84	sw.	2	0.9	.....	.....	10 s	.....	.....	0	0	cloudy	D. O. Donoghue.
Chattanooga, Tennessee	29.20	741.7	30.02	762.5	63.0	17.2	93	nw.	3	1.3	.....	.....	10 n	.....	w.	0.19	4.8	thund'r st'm.	B. L. Goulding.
Cheyenne, Wyoming	24.05	610.9	30.05	763.3	37.4	3.0	50	nw.	5	2.2	.....	0	0	.....	.....	0	0	clear	E. McGovern.
Chicago, Illinois	29.31	744.5	30.04	763.0	45.0	7.2	96	w.	7	3.1	.....	7 k	fg.	w.	.....	0.52	13.2	fair	J. Mitchell.
Chincoteague, Virginia	29.83	757.7	29.85	758.2	52	11.1	93	nw.	17	7.6	.....	.....	10 ks	.....	w.	0.04	1.0	cloudy	V. P. Temple.
Cincinnati, Ohio	29.40	746.7	30.07	763.8	43.5	6.4	88	n.	5	2.2	.....	.....	10 s	.....	nw.	0.56	14.2	cloudy	R. B. Watkins.
Cleveland, Ohio	29.25	742.9	30.01	762.2	41.7	5.4	72	ne.	6	2.7	.....	.....	10 s	.....	.....	0.43	10.9	cloudy	J. B. Newlin.
Coleman City, Texas	28.15	715.0	29.97	761.2	61	16.1	84	n.	3	1.3	.....	6 c	0	.....	.....	0	0	fair	L. Dorman.
Columbus, Ohio	29.16	740.7	30.02	762.5	42	5.6	92	n.	6	2.7	.....	.....	10 s	.....	nw.	0.97	24.6	cloudy	D. Cuthbertson.
Concho, Texas	28.03	711.9	29.97	761.2	62	16.7	73	calm	0	0	.....	4 c	0	.....	.....	0	0	fair	W. W. McConihe.
Davenport, Iowa	29.40	746.7	30.07	763.8	44	6.7	93	nw.	2	0.9	.....	.....	fg.	.....	calm	0	0	dense fog	R. R. Martin.
Dayton, Washington T'y	28.46	722.9	30.21	767.3	37	2.8	96	sw.	4	1.8	.....	.....	10 s	.....	sw.	0	0	cloudy	H. Clifford.
Deadwood, Dakota	25.41	645.4	30.10	764.5	29	— 1.7	80	sw.	3	1.3	.....	4 k	0	w.	.....	0	0	fair	G. W. Scott.
Decatur, Texas	.....	.....	.....	.....	69	20.6	47	s.	8	3.6	.....	0	5 s	.....	.....	0	0	fair	D. J. Carr.
Delaware Breakwater, Del.	29.82	757.4	29.84	757.9	46	7.8	100	nw.	22	9.8	.....	.....	10 s	.....	nw.	0.69	17.5	cloudy	A. Schneider.
Denison, Texas	29.15	740.4	29.95	760.7	65.0	18.3	84	ne.	5	2.2	.....	0	0	.....	.....	0	0	clear	J. McGlone.
Denver, Colorado	24.76	628.9	30.03	762.7	41.0	5.0	54	se.	8	3.6	.....	0	0	.....	.....	0	0	clear	F. M. Neal.
Des Moines, Iowa	29.18	741.2	30.11	764.8	41	5.0	82	calm	0	0	.....	0	fg.	.....	.....	0	0	clear	F. W. Conrad.
Detroit, Michigan	29.29	744.0	30.02	762.5	41.5	5.3	57	nw.	6	2.7	.....	.....	10 s	.....	nw.	0	0	cloudy	C. F. R. Wappenhans.
Dodge City, Kansas	27.43	696.7	30.07	763.8	45	7.2	63	se.	2	0.9	.....	0	0	.....	.....	0	0	clear	E. A. Thomas.
Dubuque, Iowa	29.31	744.5	30.04	763.0	41.8	5.4	92	nw.	1	0.4	.....	.....	fg.	.....	.....	0.04	1.0	dense fog	J. Harvey Smith.
Duluth, Minnesota	29.21	741.9	29.93	760.2	36	2.2	89	ne.	8	3.6	.....	.....	10 s	.....	calm	0.19	4.8	cloudy	N. B. Conger.
Eagle Pass, Texas	29.13	739.9	29.94	760.5	72.1	22.3	90	se.	7	3.1	.....	4 cs	0	.....	.....	0	0	fair	F. Belford.
Eagle Rock, Idaho	25.37	644.4	30.09	764.3	35	1.7	82	sw.	11	4.9	.....	0	0	.....	.....	0	0	clear	J. M. Clifford.
Eastport, Maine	30.23	767.8	30.30	769.6	39.5	4.2	78	s.	5	2.2	.....	.....	10 s	.....	s.	0	0	cloudy	J. H. Melton.
El Paso, Texas	26.20	665.5	29.94	760.5	58	14.4	44	n.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.22	742.2	29.97	761.2	45	7.2	83	calm	0	0	.....	.....	10 s	.....	se.	0	0	cloudy	R. H. Paxton.
Escanaba, Michigan	29.28	743.7	29.97	761.2	40	4.4	57	calm	0	0	.....	.....	10 s	.....	w.	0	0	cloudy	C. Dill.
Florence, Arizona	28.40	721.3	29.90	759.4	49.7	9 8	39	n.	1	0.4	.....	0	0	.....	.....	0	0	clear	R. R. Herman.
Fort Apache, Arizona	25.08	637.0	30.00	762.0	36	2.2	61	e.	3	1.3	.....	0	0	.....	.....	0	0	clear	W. O. Barnes.
Fort Assinnaboine, Montana	27.30	693.4	30.20	767.1	34	1.1	82	sw.	9	4.0	.....	.....	10 s	.....	w	0	0	cloudy	B. O. Lenoir.
Fort Bennett, Dakota	28.42	721.9	30.06	763.5	36	2.2	82	n.	4	1.8	.....	0	0	.....	.....	0	0	clear	T. Gibson.
Fort Benton, Montana	27.36	694.9	30.22	767.6	34	1.1	71	nw.	8	3.6	.....	10 ck	0	calm	.....	0	0	cloudy	S. Wheaton.
Fort Buford, Dakota	28.04	712.2	30.11	764.8	34	1.1	81	w.	10	4.5	.....	.....	10 s	.....	calm	0.25	6.3	cloudy	A. H. Bell.
Fort Custer, Montana	26.92	683.8	30.10	764.5	34	1.1	70	ne.	2	0.9	.....	.....	10 s	.....	calm	0	0	cloudy	V. Verge.
Fort Davis, Texas	25.13	638.3	29.92	760.0	55	12.8	67	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. Williams.
Fort Elliott, Texas	27.25	692.1	30.03	762.7	47	8.3	58	se.	1	0.4	.....	0	0	.....	.....	0	0	clear	W. J. Cundall.
Fort Gibson, Indian T'y	29.45	748.0	30.03	762.7	62.0	16.7	68	e.	4	1.8	.....	0	0	.....	.....	inap.	inap.	clear	J. B. Campbell.
Fort Grant, Arizona	25.23	640.8	29.96	761.0	54	12.2	33	e.	4	1.8	.....	5 cs	0	.....	.....	0	0	fair	T. J. Macgowan.
Fort Keogh, Montana	27.57	700.3	30.11	764.8	34	1.1	71	sw.	6	2.7	.....	6 cs	0	sw.	.....	0	0	fair	W. B. Stockman.
Fort Macon, North Carolina	29.97	761.2	29.98	761.5	67	19.4	90	sw.	20	8.9	.....	2 cs	hz.	sw.	calm	0	0	clear	L. Leonardy.
Fort McKavett, Texas	27.74	704.6	30.00	762.0	68	20.0	70	sw.	5	2.2	.....	4 cs	0	.....	.....	0	0	fair	J. E. Thatcher.
Fort Missoula, Montana	26.80	680.7	30.10	764.5	37	2.8	100	n.	3	1.3	.....	.....	10 n	.....	ne.	0.03	0.8	light rain	J. H. Jones.
Fort St. Michaels, Alaska	30.53	775.4	30.57	776.5	24	— 4.4	100	se.	4	1.8	.....	0	8 s	.....	s.	0	0	fair	A. P. Leavitt.
Fort Shaw, Montana	26.50	673.1	30.17	766.3	32	0.0	81	nw.	5	2.2	.....	0	8 n	.....	nw.	0.01	0.3	light snow	A. L. Mathews.
Fort Sill, Indian Territory	28.76	730 5	30.00	762.0	55.5	13.1	65	n.	10	4.5	.....	0	0	.....	.....	0	0	clear	T. Cleary.
Fort Stevenson, Dakota	28.12	714.2	30.02	762.5	35	1.7	100	w.	16	7.2	.....	.....	10 n	.....	.....	inap.	inap.	light rain	W. Burrows
Fort Verde, Arizona	.....	.....	.....	.....	46.1	7.8	44	ne.	.....	.....	1	0	0	.....	.....	0	0	clear	D. Brooks.
Fort Washakie, Wyoming	24.47	621.5	.....	.....	29.6	— 1.3	75	nw.	3	1.3	.....	0	1 k	.....	.....	0	0	clear	T. M. Ambler.
Fredericksburg, Texas	28.22	716.8	29.94	760.5	68	20.0	93	sw.	6	2.7	.....	.....	10 ks	.....	sw.	0	0	cloudy	H. S. Miles.
Galveston, Texas	29.93	760.2	29.97	761.2	75	23.9	90	sw.	6	2.7	.....	.....	10 k	.....	sw.	0.01	0.3	threatening	E. O'C. MacInernev.
Grand Haven, Michigan	29.33	745.0	30.02	762.5	43.5	6.4	63	e.	2	0.9	.....	0	0	.....	.....	0	0	clear	W. A. Reid.
Hatteras, North Carolina	29.92	760.0	29.94	760.5	67	19.4	90	sw.	32	14.3	.....	6 ck	0	sw.	.....	0	0	fair	R. M. Crawford.
Helena, Montana	25.84	656.3	30.10	764.5	34	1.1	72	nw.	8	3.6	.....	.....	10 s	.....	nw.	0.02	0.5	cloudy	N. C. Smith.
Henrietta, Texas	29.00	736.0	30.03	762.7	63.0	17.2	84	n.	5	2.2	.....	0	0	.....	.....	0	0	clear	J. W. Byram.
Huron, Dakota	28.65	727.7	30.10	764.5	38.8	3.8	76	w.	11	4.9	.....	.....	9 k	.....	w.	0	0	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.25	742.9	30.07	763.8	45.5	7.5	81	n.	4	1.8	.....	.....	10 s	.....	calm	0.07	1.8	cloudy	O. Schutze
Indianola, Texas	29.92	760.0	29.95	760.7	74.2	23.4	97	s.	8	3.6	.....	2 c	2 k	w.	s.	0	0	fair	I. A. Reed.
Jacksboro, Texas	28.81	731.8	29.99	761.7	61	16.1	84	n.	1	0.4	.....	0	2 s	.....	.....	0	0	clear	J. P. Sherry.
Jacksonville, Florida	30.05	763.3	30.09	764.3	71	21.7	82	s.	8	3.6	.....	2 ks	0	.....	.....	0	0	clear	J. W. Smith.
Keokuk, Iowa	29.40	746.7	30.07	763.8	48.0	8.9	96	w.	1	0.4	.....	.....	fg.	.....	.....	0	0	dense fog	F. Z. Gosowisch
Key West, Florida	30.07	763.8	30.09	764.3	76.0	24.4	64	e.	8	3.6	.....	0	3 k	.....	e.	0	0	clear	L. M. Melbourne.
Kittyhawk, North Carolina	29.90	759.4	29.92	760.0	65	18.3	84	sw.	21	9.4	.....	3 c	0	w.	.....	0.03	0.8	clear	E. A. Beals.
Knoxville, Tennessee	28 96	735.6	30.00	762.0	63.1	17.3	89	sw.	10	4.5	.....	6 cs	4 ks	.....	sw.	0.05	1.3	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.20	741.7	30.00	762.0	49	9.4	63	s.	5	2.2	.....	0	0	.....	.....	0.01	0.3	clear	S. C. Emery.
La Mesilla, New Mexico	26.07	662.2	29.95	760.7	45.0	7.2	41	calm	0	0	.....	4 c	0	w.	.....	0	0	fair	N. D. Lane.
Leavenworth, Kansas	29 20	741.7	30.11	764.8	48	8.9	77	calm	0	0	.....	5 cs	0	sw.	.....	0	0	fair	A. W. Browne.
Lewiston, Idaho	29.37	746.0	30.22	767.6	42	5.6	86	sw.	1	0.4	.....	0	6 ks	.....	.....	0.03	0.8	fair	W. Blake.
Little Rock, Arkansas	29.71	754.0	30.03	762.7	66	18.9	90	ne.	11	4.9	.....	0	6 s	.....	n.	0.55	14.0	fair	W. U. Simmons.
Los Angeles, California	29.62	752.3	30.02	762.5	47.1	8.4	77	n.	1	0.4	.....	0	0	.....	.....	0	0	clear	E. F. Kubel.
Louisville, Kentucky	29.47	748.5	30.04	763.0	47	8.3	86	n.	9	4.0	.....	.....	10 s	.....	n.	0.52	13.2	cloudy	H. C. Smyth.
Lynchburg, Virginia	29.19	741.4	29.90	759.4	63.5	17.5	72	s.	2	0.9	.....	4 ck	0	w.	.....	0.01	0.3	fair	W. R. Bushby.
Madison, Wisconsin	28.98	736.1	30.02	762.5	44	6.7	93	w.	6	2.7	.....	0	6 s	.....	w.	0.19	4.8	clearing	C. A. Shaw.
Marquette, Michigan	29.25	742.9	30.00	762.0	40	4.4	57	s.	1	0.4	.....	.....	10 s	.....	calm	0	0	cloudy	J. Gilligan.
Mason, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	P. M. Wilson.
Memphis, Tennessee	29.73	755.1	30.07	763.8	64	17.8	90	n.	8	3.6	.....	.....	10 s	.....	.....	1.00	25.4	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	29.24	742.7	30.01	762.2	43	6.1	83	w.	12	5.4	.....	0	9 s	.....	.....	0.01	0.3	cloudy	W. Line.
Mobile, Alabama	30.00	762.0	30.04	763.0	73	22.8	90	calm	0	0	.....	.....	10 s	.....	w.	0	0	cloudy	J. D. Paxton.

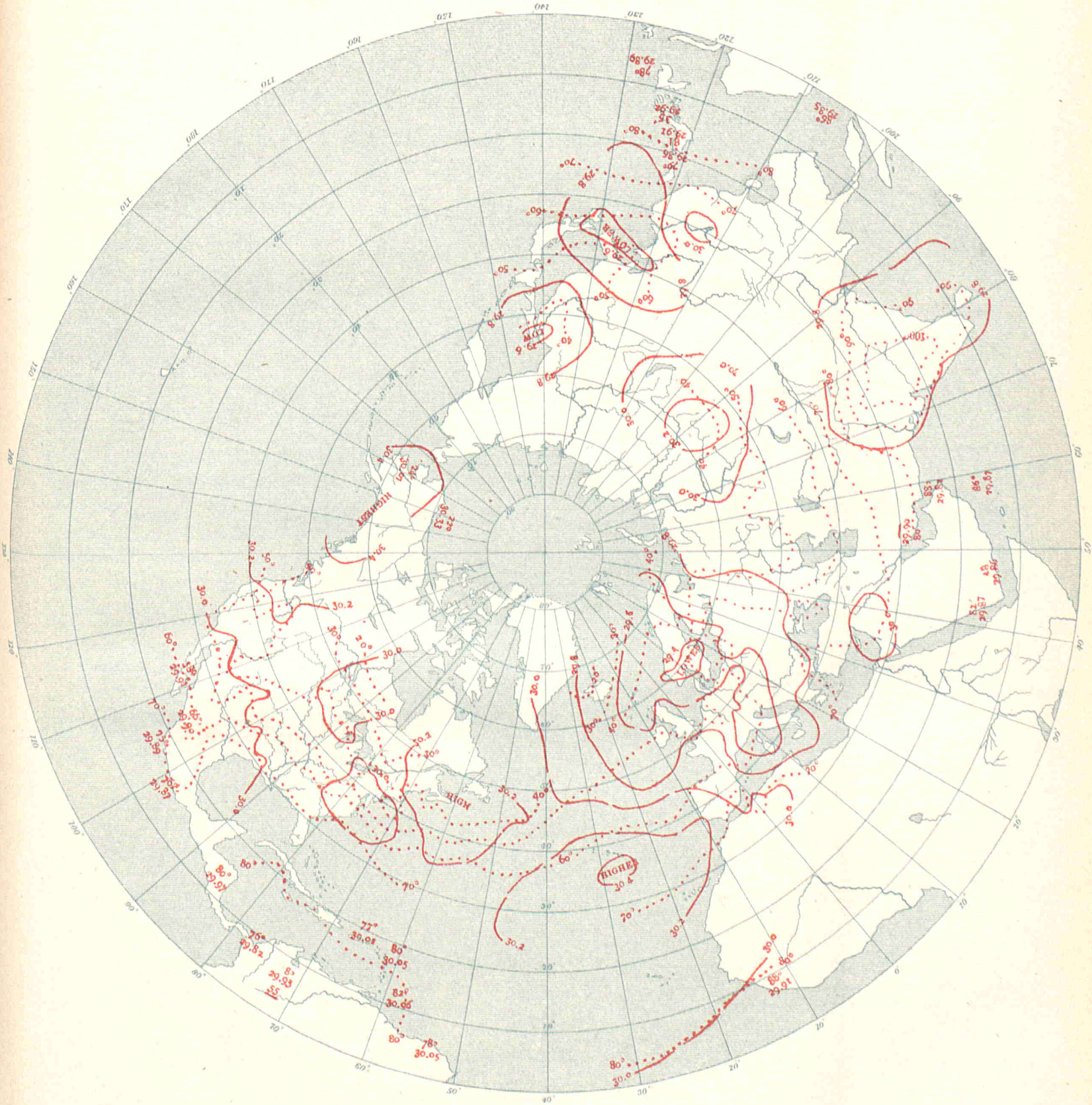
STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind.		Clouds. Direction.		Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Montgomery, Alabama	29.79	756.7	30.03	762.5	68	20.0	93	s.	3	1.3			10s;fg		w.	0	0	cloudy	J. B. McLaughlin.
Moorhead, Minnesota	28.87	733.3	29.90	759.4	42	5.6	92	w.	16	7.2			10 n		w.	0.08	2.0	light rain	H. Bessant.
Morgantown, W. Virginia	28.93	734.8	29.97	761.2	49.5	9.7	83	calm	0	0			10 s			0.90	22.9	cloudy	G. C. Lewis.
Mt. Washington, N. H.	23.75	603.2	30.16	766.1	22.0	— 5.6	90	se.	30	13.4			fg.		se.	0	0	light fog	J. G. Linsley.
Nashville, Tennessee	29.46	748.3	30.00	762.0	64.0	17.8	78	nw.	6	2.7		0	9 ks		nw.	0.27	6.9	cloudy	L. A. Jesunofsky.
New Haven, Connecticut	29.82	757.4	29.94	760.5	38	3.3	89	ne.	19	8.5			10 n		ne.	0.67	17.0	light rain	J. H. Sherman.
New London, Connecticut	29.92	760.0	29.97	761.2	39	3.9	100	ne.	16	7.2			10 n		ne.	0.78	19.8	heavy rain	J. G. Lynch.
New Orleans, Louisiana	29.96	761.0	30.02	762.5	74.0	23.3	90	s.	3	1.3		9 c	sk.	sw.		0.34	8.6	cloudy	S. Dunne.
Newport, Rhode Island	29.94	760.5	29.98	761.5	39.0	3.9	100	ne.	22	9.8			10 n		e.	0.98	24.9	heavy rain	W. McGillivray.
New River, N. Carolina					68	20.0	84	sw.			4	0	hz.			0	0	clear	C. C. Corbin.
New Shoreham, Rhode I'd.	29.91	759.7	29.94	760.5	40.4	4.7	100	ne.	36	16.1			10 n		ne.	1.04	26.4	heavy rain	W. Davis.
New York, New York	29.73	755.1	29.91	759.7	39.5	4.2	100	ne.	20	8.9			10 s		ne.	0.90	22.9	cloudy	E. B. Garriott.
Norfolk, Virginia	29.84	757.9	29.87	758.7	67	19.4	78	w.	14	6.3		2 cs	0			0.05	1.3	clear	J. T. Elker.
North Platte, Nebraska	27.11	688.6	30.07	763.8	42.6	5.9	70	sw.	2	0.9		0	4 s		w.	0	0	fair	E. F. Brady.
Olympia, Washington T'y	30.30	769.6	30.34	770.6	31.0	— 0.6	88	n.	1	0.4		0	0			0.07	1.8	clear	J. Dascomb.
Omaha, Nebraska	28.92	734.6	30.12	765.0	46.8	8.2	68	calm	0	0		8 ck	sk.	nw.		0	0	cloudy	A. Pollak.
Ooglaamie, Pt. Barrow, Alas.	30.31	769.9	30.33	770.4	22.3	— 5.4	100	s.	9	4.0			10 s			0	0	cloudy	P. H. Ray.
Oswego, New York	29.66	753.4	30.00	762.0	46.0	7.8	53	se.	12	5.4			10 s			0	0	cloudy	S. W. Beall.
Palestine, Texas	29.44	747.8	30.00	762.0	70.0	21.1	87	s.	8	3.6		5 cs	0			0	0	fair	L. M. Pindell.
Pensacola, Florida	30.01	762.2	30.04	763.0	73.3	22.9	94	s.	6	2.7			10 s		s.	0	0	cloudy	M. McGauran.
Philadelphia, Pa	29.78	756.4	29.88	758.9	44	6.7	93	ne.	18	8.0			10 s		ne.	0.76	19.3	cloudy	T. F. Townsend.
Pike's Peak, Colorado	17.77	451.3	30.05	763.3	19	— 7.2	61	w.	34	15.2		0	hz.			0	0	clear	L. M. Dey.
Ploche, Nevada	24.04	610.6	30.03	762.7	49.5	9.7	32	nw.	4	1.8		0	0			0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.12	739.6	29.95	760.7	45.3	7.4	80	n.	4	1.8			10 s		n.	0.56	14.2	cloudy	J. H. Bryce.
Port Eads, Louisiana	30.04	763.0	30.05	763.3	73.1	22.8	87	s.	3	1.3		0	hz.			0	0	clear	H. G. Christian.
Port Huron, Michigan	29.29	744.0	29.99	761.7	38.7	3.7	73	n.	3	1.3		10 cs	0	w.		0	0	cloudy	W. O. Bailey.
Portland, Maine	30.16	766.1	30.21	767.3	43.0	6.1	68	e.	9	4.0		9 c; cs	0	w.		0	0	cloudy	D. C. Murphy.
Portland, Oregon	30.21	767.3	30.28	769.1	35.1	1.7	89	calm	0	0		0	0			0.03	0.8	clear	M. L. Hearne.
Portsmouth, N. Carolina					67	19.4	84	sw.	24	10.7		hz.	3 k	calm	sw.	0	0	clear	F. P. Chaffee.
Prescott, Arizona	24.78	629.4	30.00	762.0	39	3.9	36	s.	4	1.8		0	0			0	0	clear	J. McN. Wright.
Provincetown, Mass.	30.10	764.5	30.12	765.0	41	5.0	92	se.	22	9.8			10 n		se.	0.06	1.5	light rain	P. T. Jenkins.
Punta Rassa, Florida	30.08	764.0	30.10	764.5	72	22.2	76	e.	7	3.1		1 ck	0	calm		0	0	clear	W. J. Evans.
Red Bluff, California	29.72	754.9	30.09	764.3	54.8	12.7	30	n.	3	1.3		4 k	0	w.		0	0	fair	J. M. Frantz.
Rio Grande City, Texas	29.68	753.9	29.92	760.0	78	25.6	91	se.	5	2.2		0	0			0	0	clear	W. H. Taylor.
Rochester, New York	29.29	744.0	29.98	761.5	42	5.6	74	se.	6	2.7			10s;sk		se.	0	0	cloudy	A. T. Sherwood.
Roseburg, Oregon	29.66	753.4	30.22	767.6	47	8.3	86	calm	0	0		0	9 s		sw.	0.10	2.5	cloudy	J. J. Nanry.
Sacramento, California	29.98	761.5	30.06	763.5	56.2	13.4	80	n.	5	2.2		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.52	749.8	30.13	765.3	51.0	10.6	100	calm	0	0		hz.	hz.			0	0	dense haze	J. H. Webber.
St. Paul, Minnesota	29.07	738.4	29.96	761.0	43.0	6.1	74	sw.	2	0.9		0	0			0.18	4.6	clear	P. F. Lyons.
St. Vincent, Minnesota	28.95	735.3	29.86	758.4	36	2.2	89	ne.	10	4.5			10 s		e.	0.23	5.8	cloudy	G. Kingsbury.
Salt Lake City, Utah	25.67	652.0	30.04	763.0	45	7.2	49	nw.	1	0.4		9 k	0	w.		0	0	cloudy	J. Craig.
San Antonio, Texas	29.23	742.4	29.93	760.2	71.7	22.1	90	calm	0	0			10 ks		se.	0	0	cloudy	E. Lane.
San Diego, California	29.90	759.4	29.97	761.2	50.3	10.2	95	sw.	3	1.3		0	2 s			0	0	clear	A. C. Dobbins.
Sandusky, Ohio	29.32	744.7	30.02	762.5	44	6.7	76	nw.	6	2.7			10 s			0.85	21.6	cloudy	M. H. Perry.
Sandy Hook, New Jersey	29.85	758.2	29.89	759.2	42.0	5.6	92	ne.	36	16.1			10 n		ne.	1.89	48.0	light rain	B. A. Blundon.
San Francisco, California	30.03	762.7	30.10	764.5	51	10.6	86	calm	0	0		0	fg.			0	0	clear	N. Gorom.
Santa Fé, New Mexico	23.23	590.0	29.99	761.7	50	10.0	30	e.	2	0.9		0	0			0	0	clear	H. U. Jones.
Savannah, Georgia	29.97	761.2	30.06	763.5	68	20.0	78	sw.	6	2.7		6 ck	0	nw.		0	0	fair	H. W. Ford.
Shreveport, Louisiana	29.76	755.9	30.00	762.0	66	18.9	100	e.	4	1.8			10 n		e.	0.42	10.7	thnd'r str'm	E. N. Meekins.
Silver City, New Mexico	24.26	616.2	29.94	760.5	46	7.8	39	w.	1	0.4		0	0			0	0	clear	J. B. Wallace.
Sitka, Alaska	30.40	772.1	30.46	773.7	34	1.1	65	ne.	8	3.6		0	0			0	0	clear	J. J. McLean.
Smithville, North Carolina	29.96	761.0	30.00	762.0	67	19.4	90	w.	9	4.0		3 cs	0			0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	28.13	714.5	30.19	766.8	35	1.7	89	se.	6	2.7			10 s			0.39	9.9	cloudy	D. Moore.
Springfield, Illinois	29.42	747.3	30.12	765.0	51	10.6	86	calm	0	0			fg.			0	0	dense fog	T. B. Jennings.
Springfield, Massachusetts	29.91	759.7	30.04	763.0	39.0	3.9	89	ne.	10	4.5			10 n		ne.	0.21	5.3	light rain	T. S. Outram.
Springfield, Mo.	28.64	727.4	30.16	766.1	54.5	12.5	68	e.	7	3.1		0	0			0	0	clear	J. B. Marbury.
Stockton, Texas	26.93	684.0	29.96	761.0	60.0	15.6	62	calm	0	0		0	8 s		e.	0	0	cloudy	J. O'Dowd.
Thatcher's Island, Mass.	30.10	764.5	30.15	765.8	39.0	3.9	82	e.	17	7.6			10 s		e.	0	0	cloudy	G. Liebmann.
Toledo, Ohio	29.30	744.2	30.02	762.5	40	4.4	73	n.	3	1.3			10n; fg			0.44	11.2	light rain	A. Buell.
Tucson, Arizona	27.51	698.7	29.90	759.4	54	12.2	40	se.	4	1.8		2 cs	0			0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.93	760.2	30.30	769.6	40	4.4	65	w.	4	1.8		0	1 s			0	0	clear	J. Daly.
Uvalde, Texas	28.95	735.3	29.92	760.0	72	22.2	90	se.	1	0.4			10 ks		s.	0	0	cloudy	E. C. Imlay.
Vicksburg, Mississippi	29.78	756.4	30.04	763.0	67	19.4	84	n.	5	2.2			10 n		calm	0.06	1.5	light rain	T. J. Kenan.
Visalia, California																			J. T. Cochran.
Washington, D. C.	29.85	758.2	29.97	761.2	43.5	6.4	96	nw.	8	3.6			10 s		nw.	0.92	23.4	cloudy	B. M. Purssell.
West Las Animas, Colorado	26.03	661.2	29.99	761.7	41	5.0	52	nw.	5	2.2		0	0			0	0	clear	J. Grover.
Wickenburg, Arizona					44.5	6.9	60	calm			0	0	0			0	0	clear	H. A. Kremp.
Williamsport, Pa.	29.35	745.5	29.96	761.0	42.5	5.8	88	calm	0	0			10 ks		se.	0.54	13.7	threatening	B. F. Hough.
Wilmington, N. Carolina	29.93	760.2	29.99	761.7	68	20.0	78	w.	10	4.5		0	0			0	0	clear	E. W. McGann.
Winnemucca, Nevada	25.69	652.5	30.09	764.3	36	2.2	72	sw.	3	1.3		0	0			0	0	clear	J. R. Williams.
Yankton, Dakota	28.76	730.5	30.10	764.5	45	7.2	76	nw.	1	0.4		10 cs	0			0	0	cloudy	J. H. Atfield.
Yuma, Arizona	29.70	754.4	29.85	758.2	61.0	16.1	54	se.	4	1.8		2 c	2 s			0	0	fair	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.04	559.8			55.0	12.8	77	calm	0	0		8 k	2 s	nw.		0.01	0.3	cloudy	Joaquin Gomez.
Bridgetown, Barbados, W.I.	30.05	763.3	30.06	763.5	82	27.8	91	e.				5 k	5 ks	e.	e.	0	0	fair	J. A. Racker.
Buenaventura, U. S. C.																			J. I. Plume.
Guadeloupe, W. I.	29.93	760.2	29.95	760.7	80	26.7	74	se.				3 c	0			0	0	clear	B. Bigar.
Havana, Cuba, W. I.	30.05	763.3	30.10	764.5	77	25.0	85	calm	0	0		1 cs	2 ks	calm	calm	0	0	fair	A. Van Caneghem.
Kingston, Jamaica, W. I.	29.99	761.7	30.00	762 0	81.1	27.3	69	calm	0	0		0	1 s		e.	0	0		Robert Johnston.
Navassa, W. I.																			F. M. Everett.
Paramaribo, S. A.	30.05	763.3	30.05	763.3	78	25.6	86	ne.			3	5 ck	5 k	e.		0	0		Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.49	749.0	29.95	760.7	78	25.6	80	n.			2		10 n		calm	1.14	29.0	raining	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.							94	e.			2	1 cs	2 ks	sw.	ne.	0	0	fair	Earl Flint.
Santiago de Cuba, W. I.	29.98	761.5	30.01	762.2	76	24.4	81	n	4.8	2.1		1 c	2 s		n.	0.22	5.6	fair	Robert Mason.
York Factory, B. A.	29.89	759.2	29.95	760.7	11.0	— 11.7	90	e.	14	6.3		0	0			0	0	clear	W. Wood.

STATIONS AND VESSELS.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
British Naval.																		
H. M. S. Alert, S. 9° 29′ E. 50° 58′	29.91	759.7	83	28.3	79	se.			3-4		6							d. clouds.
H. M. S. Alexandra, Malta, Mediterranean	29.77	756.1	69.2	20.7	70	s.			3-5		7	ssw.						squally.
H. M. S. Amethyst, N. 45° 01′, W. 8° 35′	29.97	761.2	54	12.2	86	sw.			2-3		2	ssw.				5	ssw.	d. clouds.
H. M. S. Bacchante, Beirut Bay, Palestine	30.08	764.0	69	20.6	75	nw.			1		2							d. clouds.
H. M. S. S. S. Champion, S. 21° 26′ W. 80° 30′			67	19.4	90	ese.			3		9					4	ese.	d. clouds.
H. M. S. Cleopatra, N. 7° 03′, E. 88° 30′	29.80	756.9	85.5	29.7	91	s.			2-3		1	calm				4	se.	blue sky.
H. M. S. Comus, N. 5° 02′, E. 126° 48′	29.89	759.2	78	25.6	?	w.			1		1							blue sky.
H. M. S. Dido, N. 18° 39′, W. 65° 30′	30.07	763.8	79	26.1		e.			3		5	e.						d. clouds.
H. M. S. Dryad, N. 28° 02′, E. 51° 07′	29.80	756.9				nnw.			5		0					5	nnw	blue sky.
H. M. S. Dwarf, S. 32° 18′, W. 58° 25′	30.04	763.0	62	16.7	88	calm			0		0							blue sky.
H. M. S. Fantome, N. 19° 11′ W. 74° 22′	30.04	763.0	81	27.2		ne.			2-3		4	calm				1	ne.	d. clouds.
H. M. S. Gannet, S. 29° 56′, W. 71° 20′	29.97	761.2	53.5	11.9	96	ne.			2		10							foggy.
H. M. S. Inconstant, Simon's Bay, Cape Colony	29.97	761.2	69	20.6	60	nnw.			3-4		3	ene.						squally.
H. M. S. Iron Duke, N. 20° 59′, E. 120° 31′	29.86	758.4	79	26.1	95	wnw.			2-3		4	w.				2	w.	d. clouds.
H. M. S. Lark, S. 9° 05′, E. 160° 20′	29.87	758.7	83.3	28.5		calm			0		0							d. clouds.
H. M. S. Magpie, N. 35° 25′, E. 139° 43′	29.97	761.2	61.9	16.6	86	sse.			1		10							raining.
H. M. S. Malabar, N. 37° 07′, W. 1° 24′	29.89	759.2	61	16.1	88	sw.			4-5		5	wsw.				4	wsw.	squally.
H. M. S. Nelson, Sydney, N. S. Wales	29.56	750.8	68	20.0	90	se.			1		0							blue sky.
H. M. S. Northampton, Bermuda, W. I.	30.11	764.8	67.5	19.7	79	nne.			3		4	nne.						d. clouds.
H. M. S. Orontes, N. 32° 21′, W. 44° 14′	30.27	768.8	67.5	19.7	96	s			3		0	ssw.				2	sse.	d. clouds.
H. M. S. Pegasus, N. 1° 17′, E. 103° 52′	29.85	758.2	86	30.0	75	calm			0		0							d. clouds.
H. M. S. Rambler, S. 13° 17′, E. 12° 40′	29.90	759.4	78	25.6	95	nnw.			2		2							d. clouds.
H. M. S. Rocket, Esquimalt, Vancouver Island, B. C.	30.25	768.3	39	3.9		calm			0		3							d. clouds.
H. M. S. Serapis, N. 12° 40′ E. 45° 00′	29.86	758.4	84	28.9	75	w.			1		2	sw.						d. clouds.
H. M. S. Tenedos, N. 38° 00′ W. 64° 00′	30.17	766.3	58	14.4	87	ne.			4-6		10					6	wsw.	overcast.
H. M. S. Thalia, S. 9° 55′, W. 11° 40′	30.00	763.5	80.5	26.9	84	se.			4		1					1	ese.	blue sky.
H. M. S. Triumph, Coquimbo, Chili	29.94	760.5	55	12.8	87	calm			0		10	calm						foggy.
H. M. S. Tyne, N. 16° 04′ E. 41° 20′	29.87	758.7	82	27.8	100	nw.			2		1	nnw.				2	nnw.	blue sky.
H. M. S. Woodlark, Muscat, Arabia	29.82	757.4	87.5	30.8	62	nw.			1-2		0					2	nw.	misty.
Portuguese Naval.																		
Rio Lima, Bulama, Senegambia	30.03	762.8	78.4	25.8	85	nw.			4		3		nw.			3	nw.	d. clouds.
Tamega, Aberdeen, China	29.91	759.7	78.8	26.0	90	calm			0		4							d. clouds.
Swedish Naval.																		
Balder, N. 42° 04′ W. 43° 24′	30.02	762.4	53.8	12.1	100	ne.			4		10							raining.
United States Naval.																		
Navy Yard, Pensacola, Fla	29.96	761.0	75	23.9	90	ssw.	6	2.7			8		sw.	0	0			fair.
Naval Hospital, Portsmouth, N. H.	30.24	768.1	40	4.4	73	ne.	10	4.5			10		ne.	0	0			cloudy.
Naval Hospital, Yokohama, Japan	29.86	758.4	60.5	15.8	91	calm			0		10		sw.	0.15	3.8			raining.
Adams, N. 19° 36′, W. 105° 29′	29.64	752.8	75	23.9	90	wnw.			1		2		wnw.	0	0	sm'h		clear.
Alaska, Panama, Panama	29.82	757.4	76	24.4	95	nw.			1		0			0	0	sm'h		clear.
Alert, Kobe, Japan*	29.68	753.9	61	16.1	94	ne.			4		10		ne.			sm'h		raining.
Alliance, N. 29° 02′ W. 79° 37′	30.12	765.0	75	23.9	72	se.			1		5			0	0	sm'h		fair.
Ashuelot, Kobe, Japan	29.75	755.6	59	15.0	100	ne.			3		10		ne.					rainy.
Brooklyn, Montevideo, Uruguay	30.08	764.0	60	15.6	100	nw.	5	2.2			0			0	0	sm'h		clear.
Colorado, New York, N. Y.	29.90	759.4	40	4.4	91	ne.	15	6.7			10		calm	0.76	19.3			rain & fog.
Enterprise, N. 33° 12′, W. 77° 40′*	30.02	762.5	73	22.8	81	s.			3		8		sw.			long		fair.
Essex, S. 18° 38′, W. 34° 10′	30.07	763.8	78	25.6	78	sse.			0		2		se.			rg'h	se.	fair.
Franklin, Norfolk, Va.	29.89	759.2	67	19.4	74	sw.	20	8.9			0			0.2	5.			clear.
Galena, Leghorn, Italy	29.48	748.8	61	16.1	88	w.			3		8		w.			mod.	w.	fair.
Independence, Mare Island, Cal.	29.91	759.7	51	10.6	93	calm			0		2			0	0			foggy.
Iroquois, Mare Island, Cal.	30.07	763.8	57	13.9	87	calm			0		2		sw.					fair.
Kearsage, Hampton Roads, Va.	29.87	758.7	61	16.1	?	w.			2		2					sm'h		fair.
Lackawanna, Casma, Peru*†	30.02	762.5	64	17.8	94	calm			0		5?		sw.					clear.?
Lancaster, Leghorn, Italy*	29.50	749.3	68	20.0	56	wsw.			3		8		wsw.	0	0			fair.
Marion, S. 21° 06′, W. 12° 48′	30.17	766.3	73	22.8	85	se.			5		8		ese.	rain	rain	mod.	ese.	fair.
Michigan, Erie, Pa.	29.91	759.7	46	7.8	84	s.			1		10		s.					cloudy.
Minnesota, Newport, R. I.	29.97	761.2	40	4.4	91	ene.	17	7.6			10							raining.
Monocacy, Kobe Japan	29.78	756.4	60	15.6	88	ne.			2		10		calm					raining.
New Hampshire, Newport, R. I.	29.96	761.0	39	3.9	91	e.			6		10					mod.	e.	rainy.
Nipsic, Villafranca, France	29.39	746.5	62	16.7	61	e.			4		2					long	ssw.	clear.
Onward. Callao, Peru†	30.05	763.3	59	15.0	100	calm			0		10					long	w.	foggy.
Palos, Kobe, Japan	29.74	755.4	58	14.4	100	ene.			5		10		calm					rainy.
Passaic, Washington, D. C.	29.96	761.0	45	7.2	100	nw.			3		10		e.					cloudy.
Pensacola, Callao, Peru	29.94	760.5	59	15.0	94	calm	0	0			10			0	0	sm'h		foggy.
Powhatan, Kew West, Florida	30.10	764.5	78	25.6	82	e.			2		2							fair.
Portsmouth, N. 43 10′, W. 38° 59′	30.10	764.5	53	11.7	100	ene.			3		8					mod.	w.	cloudy.
Quinnebaug, Leghorn, Italy	29.51	749.5	60	15.6	71	sw.			3		0?		calm			r'gh		overcast.?
Ranger, Altata Bar, Mexico*	29.82	757.4	69	20.6	90	calm			0		2		calm	0	0	sm'h		hazy.
Richmond, Kobe, Japan*	29.67	753.6	64	17.8	78	ene.			2		10			0.13	3.3			raining.
Saratoga, N. 43° 47′ W. 37° 34′	30.09	764.3	54	12.2	87	e.			1-2		10			h'vy	hv'y	long	sw.	cloudy.
Shenandoah, N. 35° 56′, W. 74° 39′*	30.00	762.0	60	15.6	82	sw.			5		5		sw.			mod.	ssw.	fair.
St. Louis, League Island, Pa.	30.06	763.5	44	6.7	92	n.	10	4.5			10		ne.	0.94	23.9			cloudy.
Swatara, Chefoo, China*	29.46	748.3	50	10.0	93	nw.			3		10		calm			mod.	nw.	light rain.
Tennessee, Fort Monroe, Va.	29.91	759.7	62	16.7	100	sw.	7	3.1			0			0	0			clear.
Vandalia, Hampton Roads, Va†	30.13	765.3	60	15.6	94	wsw.			3.		2		w.					fair.
Wabash, Boston, Mass.	30.13	765.3	42	5.6	74	se.	13	5.8			10		se.	0.02	0.5			rainy.
Wachusetts, Sitka, Alaska	30.35	770.9	34	1.1	100	calm			0		0					sm'h		clear.
Wyoming, Port Royal, S. C.	30.03	762.7	68	20.0	95	sw.	13	5.8			8		w.	0	0			cloudy.
Yantic, Fort Monroe, Va*†.	30.07	763.8	62	16.7	88	w.			4		8							cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Circassian, N. 48° 50′ W. 36° 10′	30.24	768.1	47	8.3	77	nw.	.....	.....	6	.....	10	... .	nw.	.....	.....	4	nw.	showery.
S. S. Polynesian, N. 45° 27′ W. 43° 44′*	29.95	760.7	40	4.4	.....	n.	.....	.....	2	.....	10	.....	ne.	0	0	long	nw.	overcast.
S. S. Scandinavian, N. 45° 45′, W. 39° 51′*	30.00	762.0	50	10.0	.....	nnw.	.....	.....	2	.....	10	.....	w.	0	0	mod.	wnw.	overcast.
S. S. Waldensian, Glasgow, Scotland*	29.39	746.5	38	3.3	.....	ne.	.....	.....	4	.....	5?	.....	ne.	0	0	.....	.....	clear.?
AMERICAN STEAMSHIP COMPANY.																		
S. S. British Crown, Liverpool, Eng.†	29.33	745.0	45	7.2	.....	e.	.....	.....	6	.....	10	.....	se.	2 h'r	2 h'r	.....	.....	overcast.
S. S. Illinois, Liverpool, Eng	29.63	752.6	58	14.4	93	w.	.....	.....	3	.....	2	.....	nw.	.....	.....	.....	.....	fine.
S. S. Indiana, N. 41° 16′, W. 47° 29′†	30.12	765.0	48	8.9	92	ene.	.....	.....	6	.....	10	.....	ne.	24 h'r	24 h'r	mod.	e.	cloudy.
S. S. Ohio, Queenstown, Ireland.†	29.35	745.5	48	8.9	92	wnw.	.....	.....	4	.....	9	.....	nw.	.....	.....	.....	.....	rainy.
S. S. Pennsylvania, N. 39° 30′, W. 64° 15′†	30.15	765.8	58	14.4	100	s.	.....	.....	5	.....	.....	.....	se.	.....	.....	sm'n	sw.	raining.
ANCHOR LINE.																		
S. S. Bolivia, N. 43° 17′, W. 43° 44′†	30.02	762.5	42	5.6	.....	ne.	.....	.....	2	.....	2?	.....	.....	driz.	driz.	light	ne.	cloudy.?
S. S. Devonia, N. 40° 30′ W. 73° 00′†	29.71	754.6	45	7.2	.....	nne.	.....	.....	7	.....	10	.....	nne.	.....	.....	short	e.	heavy rain.
S. S. Ethiopia, N. 48° 30′, W. 36° 20′	29.98	761.5	49	9.4	96	w.	.....	.....	5	.....	8	.....	w.	1 h'r	1 h'r	mod.	w.	cloudy.
S. S. Galatia, N. 46° 21′, W. 48° 01′†	30.16	766.1	.....	.....	.....	w.	.....	.....	4	.....	8	.....	w.	0	0	mod.	sw.	cloudy.
S. S. India, N. 14° 47, E. 56° 04′*	29.87	758.7	86	30.0	88	ese.	.....	.....	1	.....	2	.....	.....	.....	.....	.....	sw.	fair.
ATLAS LINE.																		
S. S. Atlas, N. 10° 26′, W. 75° 37′†	29.90	759.4	82	27.8	87	ne.	.....	.....	1	.....	2	.....	ne.	0	0	sm'h	.....	hazy.
S. S. Alvo, N. 10° 00′, W. 78° 09′	29.01	759.7	104	40.0	.....	nne.	.....	.....	6	.....	10	.....	ne.	0	0	mod.	nne.	cloudy.
S. S. Athos, N. 29° 40′, W. 74° 15′	29.84	757.9	.....	.....	.....	ssw.	.....	.....	2	.....	2	.....	s.	0	0	mod.	ssw.	clear.
S. S. Claribel, N. 18° 24′, W. 74° 32′*†	30.10	764.5	82	27.8	87	calm	.....	.....	0	.....	1	.....	calm	0	0	sm'h	.....	fine.
BRITISH METEOROLOGICAL OFFICE.																		
S. S. Arran, S. 23° 48′, W. 29° 25′	30.31	769.9	75.3	24.1	66	se.	.....	.....	6	.....	4	.....	.....	.....	.....	.....	.....	d. clouds.
Baroda, N. 30° 31′ E. 87° 14′	29.77	756.1	84.3	29.1	89	se.	.....	.....	5	.....	0	.....	.....	.....	.....	.....	.....	blue sky.
British Merchant, S. 26° 01′ E. 55° 26′	30.11	764.8	80.6	27.0	70	calm	.....	.....	0	.....	2	.....	.....	.....	.....	.....	.....	d. clouds.
Glencairn, S. 9° 32′, E. 92° 20′	29.85	758.2	81.4	27.4	89	se.	.....	.....	5–6	.....	7	.....	.....	.....	.....	.....	.....	showery.
Julia H., N. 27° 39′, W. 74° 57′	30.12	765.0	70	21.1	80	e.	.....	.....	4	.....	9	.....	.....	.....	.....	.....	.....	d. clouds.
CROMWELL LINE.																		
S. S. Hudson, N. 25° 20′, W. 84° 08′†	30.10	764.5	78	25.6	.....	ese.	.....	.....	2	.....	1	.....	e.	0	0	mod.	e.	fair.
CUNARD LINE.																		
S. S. Gallia, N. 46° 47′, W. 37° 45′	29.96	761.0	50	10.0	72	wsw.	.....	.....	4	.....	8	.....	nw.	0	0	mod.	w.	fair.
S. S. Scythia, N. 50° 40′, W. 16° 34′	29.70	754.4	57	13.9	94	s.	.....	.....	3	.....	10	....	sw.	5 h'r	5 h'r	mod.	wsw.	overcast.
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. Canada, N. 47° 02′, W. 34° 20′	30.07	763.8	53.6	12.0	.....	nw.	.....	.....	4	.....	8	.....	nw.	0	0	.....	wnw.	covered.
S. S. France, N. 41° 23′, W. 74° 05′†	29.91	759.7	41.0	5.0	.....	e.	.....	.....	6	.....	.....	.....	ene.	0	0	r'gh	ene.	covered.
S. S. St. Germain, N. 48° 10′ W. 25° 53′	.....	.....	55.4	13.0	.....	wnw.	.....	.....	6	.....	.....	.....	wnw.	0	0	mod.	wnw.	clear.
GUION LINE.																		
S. S. Arizona, N. 44° 43′, W. 40° 14′	30.12	765.0	55	12.8	.....	var.	.....	.....	2	.....	10	.....	wnw.	2 h'r	2 h'r	long	wnw.	overcast.
S. S. Wisconsin, N. 51° 20′ W. 14° 00′*†	29.65	753.1	52	11.1	?	sw.	.....	.....	5	.....	10	.....	wsw.	0	0	mod.	nw.	cloudy.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Bohemia, N. 49° 12′, W. 15° 07′*†	29.65	753.1	.....	.....	.....	w.	.....	.....	6	.....	10	.....	w.	light	light	h'vy	w.	hazy.
S. S. Cimbria, N. 48° 13′, W. 30° 29′	29.97	761.2	52.5	11.4	.....	nw.	.....	.....	5	.....	6	.....	w.	0	0	.....	w.	fair.
S. S. Lessing, Hamburg, Germany	29.46	748.3	62	16.7	.....	sw.	.....	.....	4	.....	8	....	.....	0	0	.....	.....	cloudy.
S. S. Silesia, N. 46° 03′, W. 33° 54′†	30.17	766.3	49.1	9.5	.....	nw.	.....	.....	5	.....	10	.....	w.	0	0	4	w.	cloudy.
S. S. Wieland, N. 46° 25′, W. 29° 58′	30.09	764.3	55.5	13.1	.....	wnw.	.....	.....	4	.....	10	.....	nw.	3 h'r	3 h'r	3	wnw.	cloudy.
INMAN LINE.																		
S. S. City of New York, N. 42° 16′, W. 48° 07′	30.18	766.6	.....	.....	.....	nne.	.....	.....	4	.....	10	.....	nne.	2 h'r	2 h'r	mod.	nne.	sprinkling.
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, S. 21°—′, W. 38°—′*†	30.38	771.6	79	26.1	.....	se.	.....	.....	5	.....	6?	.....	se.	6 h'r	6 h'r	high	sse.	clear?
MALLORY LINE.																		
S. S. Colorado, New York, N. Y.†	29.98	761.5	40	4.4	.....	n.	.....	.....	5	.....	10	.....	n.	12 h'r	12 h'r	.....	.....	cloudy.
MERCHANTS' EXPRESS LINE.																		
S. S. Frejn, N. 41° 17′, W. 47° 48′†	30.06	763.5	51	10.6	93	nne.;n.	.....	.....	6	.....	10	....	n.	16 h'r	16 h'r	sm'h	ne.	rainy.
MERCHANTS' STEAMSHIP COMPANY.																		
S. S. Glenapp, N. 19° 52′, W. 58° 35′*†	30.04	763.0	.....	.....	.....	s.	.....	.....	2	.....	9	.....	var.	6 h'r	6 h'r	light	e.	heavy rain.
NATIONAL LINE.																		
S. S. Denmark, N. 46° 47′, W. 30° 42′	30.13	765.3	56	13.3	.....	w.	.....	.....	4	.....	10	.....	wsw.	2 h'r	2 h'r	slight	wnw.	cloudy.
S. S. England, N. 42° 40′, W. 45° 06′	30.07	763.8	.....	.....	.....	nne.	.....	.....	5	.....	10	.....	.....	16 h'r	16 h'r	mod.	n.	rainy.
S. S. Erin, Gravesend, England	29.74	755.4	59	15.0	.....	e.	.....	.....	3	.....	10	.....	nw.	3 h'r	3 h'r	.....	.....	showery.
S. S. Italy, N. 41° 10′, W. 46° 40′	30.06	763.5	53	11.7	100	ne.	.....	.....	5	.....	10	.....	ene.	17 h'r	17 h'r	mod.	ne.	heavy rain.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Niagara, N. 23° 09′ W. 82° 21′†	30.10	764.5	70	21.1	?	calm	.....	.....	0	.....	0	.....	.....	0	0	sm'h	.....	clear.
NEW YORK HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, New York, N. Y*†	29.97	761.2	45	7.2	.....	nne.	.....	.....	7	.....	10	.....	nne.	14 h'r	14 h'r	.....	.....	rainy.
S. S. City of Puebla, Havana, Cuba, W. I †	29.98	761.5	71	21.7	.....	ssw.	.....	.....	2	.....	0	.....	.....	.....	.....	.....	.....	
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Alvena, N. 20° 19′, W. 65° 59′	29.94	760.5	69	20.6	.....	sse to e	.....	.....	1	.....	.....	.....	.....	.....	.....	sm'h	.....	clear.
S. S. Olbers, N. 3° 38′, W. 28° 45′*†	30.00	762.0	80	26.7	.....	calm	.....	.....	0	.....	.....	.....	.....	.....	.....	.....	n.	showery.
S. S. P. Caland, N. 40° 30′ W. 71° 30′	29.75	755.6	44.6	7.0	.....	ese.	.....	.....	5	.....	.....	.....	.....	.....	.....	5	se.	gloomy.
NORTH GERMAN LLOYD.																		
S. S. Elbe, N. 40° 31′ W. 68° 13′	30.07	763.7	41.0	5.0	90	ene.	.....	.....	6	.....	10	.....	e.	4 h'r	4 h'r	mod.	e.	rainy.
S. S. Graf Bismarck, Bahia, Brazil, S. A	30.01	762.2	77.0	25.0	.....	var.	.....	.....	1–2	.....	8	.....	var.	18 h'r	18 h'r	.....	.....	showery.
S. S. Hapsburg, N. 45° 44′, W. 39° 48′	30.12	765.0	49.1	9.5	.....	nw.	.....	.....	2	.....	10	.....	nw.	0	0	mod.	nw.	fair.
S. S. Kronprinz F. Wilhelm, N. 42° 38′, W. 57° 10′	30.33	770.4	40.1	4.5	.....	nw.	.....	.....	2	.....	9	.....	sw.	snow	snow	2	nw.	cloudy.
S. S. Main, N. 52° 17′, E. 2° 57′	29.67	753.6	50.0	10.0	.....	wnw.	.....	.....	3–4	.....	5?	.....	wnw.	light	light	sm'h	wnw.	covered?
S. S. Mosel, N. 41° 46′ W. 60° 47′	30.41	772.4	41	5.0	.....	e.	.....	.....	1	.....	1	.....	.....	0	0	sm'h	.....	very clear.
S. S. Nurnburg, N. 40° 20′, W. 63° 56′*	30.35	770.9	49.1	9.5	.....	sse.	.....	.....	7	.....	10	.....	sse.	0	0	r'gh	sse.	cloudy.
S. S. Ohio, N. 51° 17′, E. 1° 44′	29.81	757.2	.....	.....	.....	nw.	.....	.....	4	.....	2	.....	nw.	0	0	sm'h	nw.	clear.
S. S Rhein, Bremerhaven, Germany	29.24	742.7	.....	.....	.....	nnw.	.....	.....	6	.....	7	.....	nnw.	0	0	.....	.....	squally.
S. S. Saller, N. 48° 46′, W. 21° 00′	29.79	756.7	53.6	12.0	.....	wsw.	.....	.....	6	.....	10	.....	w.	9 h'r	9 h'r	r'gh	w.	fair.
S. S. Strassburg, N. 44° 58′, W. 40° 26′	30.15	765.8	47.0	8.3	88	ne.	.....	.....	3–4	.....	10	.....	ne.	4 h'r	4 h'r	long	n.	hazy.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Belgic, N 37° 00′ W. 156° 34′†	29.99	761.7	60	15.6	65	wnw.	.....	.....	6	.....	5	.....	nw.	0	0	r'gh	wnw.	fair.
S. S. Oceanic, Hong Kong, China*	29.87	758.7	72	22.2	90	se.	.....	.....	5	.....	.....	.....	.....	.....	.....	.....	.....	overcast.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, Savannah, Ga†	30.05	763.3	.....	.....	.....	sw.	.....	.....	1	.....	10	.....	sw.	0	0	.....	.....	smoky.
S. S. Seminole, Boston, Mass.†	30.02	762.5	40	4.4	82	ene.	.....	.....	6	.....	10	.....	e.	6 h'r	6 h'r	.....	.....	raining.
OREGON IMPROVEMENT COMPANY.																		
S. S. Mississippi, Seattle, Wash. Ter.†	30.42	772.7	42	5.6	83	calm	.....	.....	0	.....	5	.....	nw.	.....	.....	.....	.....	fair.
S. S. Willamette, N. 39° 20′, W. 124° 08′*†	30.18	766.6	46	7.8	92	nnw.	.....	.....	6	.....	fg	.....	.....	0	0	mod.	nnw.	dense fog.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. City of Chester, San Francisco, Cal. *†	30.22	767.6	51	10.6	93	calm	.....	.....	0	.....	.....	.....	.....	.....	.....	.....	.....	foggy.
S. S. Oregon, San Francisco, Cal.†	30.05	763.3	50	10.0	93	calm	.....	.....	0	.....	2	.....	se.	.....	.....	.....	.....	clear
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, N. 33° 49′, W. 118° 37′†	29.95	760.7	56	13.3	87	e.	.....	.....	1	.....	0	.....	.....	.....	.....	sm'h	.....	hazy.
S. S. Idaho, Seattle, Wash. Ter.†	30.38	771.6	41	5.0	91	nw.	.....	.....	1	.....	0	.....	.....	.....	.....	.....	.....	clear.
S. S. State of California, N. 44° 33′, W. 124° 15′†	30.23	767.8	46	7.8	92	n.	.....	.....	3	.....	0	.....	.....	.....	.....	sm'h	nw.	clear.
S. S. Victoria, San Francisco, Cal.†	30.08	764.0	50	10.0	86	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	.....	clear.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, S. 27° 52′, W. 177° 44′	29.97	761.2	68	20.0	90	n.	.....	.....	3	.....	8	....	n.	.....	.....	mod.	n.	hazy.
S. S. City of New York, Sydney, N. S. W.†	29.75	755.6	67	19.4	84	sw.	.....	.....	1	.....	10	.....	sw.	0	0	.....	.....	cloudy.
S. S. City of Pekin, N. 26° 32′, W. 114° 14′†	29.91	759.7	58	14.4	88	nw.	.....	.....	5	.....	10	.....	nw.	.....	.....	mod.	nw.	cloudy.
S. S. City of Rio de Janeiro, Panama, Panama*†	30.12	765.0	78	25.6	82	nnw.	.....	.....	1	.....	3	.....	nw.	.....	.....	sm'h	nw.	clear.
S. S. City of Tokio, N. 35° 26′, E. 139° 39′†	30.01	762.2	61	16.1	82	se.	.....	.....	3	.....	10	.....	se.	0	0	.....	.....	cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.			Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch	Mill.			
PACIFIC MAIL STEAMSHIP COMPANY.—CONTINUED.																		
S. S. Clyde, N. 23° 30′, W. 105° 13′†	29.91	759.7	69	20.6	85	var.			0-1		2		nw.	0	0	light	sw.	clear.
S. S. Grenada, N. 18° 08′, W. 103° 15′†	29.87	758.7	76	24.4	91	calm			0		8		se.	0	0	light	w.	cloudy.
S. S. South Carolina, Corinto, Mexico†	29.97	761.2	80	26.7	78	ne			2		2		ne.	0	0	sm'h		dense smoke
S. S. Zelandia, S. 21° 26′, W. 173° 36′	29.97	761.2	80	26.7	96	ene.			3		10		ne.			mod	se.	cloudy.
QUEBEC STEAMSHIP CO.																		
S. S. Muriel, Off Sombrero, W. I.	30.03	762.7	80	26.7		e.			2		2			0	0	sm'h		fair.
S. S. Bermuda, St. Pierre, W. I.†	30.11	764.8				e.			2		0			0	0	sm'h		fine.
RED STAR LINE.																		
S. S. Belgenland, N. 42° 22′, W. 43° 12′†	30.13	765.3	48	8.9	?	ene.			5		6			16 h'r	16 h'r	mod.	n.	rainy.
S. S. Nederland, N. 41° 03′, W. 44° 59′*†	29.98	761.5	62	16.7		ssw.			2		10		w.	6 h'r	6 h'r	long	ssw.	misty.
S. S. Rhynland, Jersey City, N. J.	29.89	759.2	40	4.4	82	ne.			6		10		ne.	0.7	18.			drizzling.
S. S. Switzerland, N. 50° 25′. W. 2° 22′						wsw.			2		2		wsw.	3 h'r	3 h'r	sm'h		clear.
S. S. Vaderland, N. 48° 49′, W. 21° 33′	29.71	754.6	55	12.8	87	ese.			6		10		s.	5 h'r	5 h'r	long	w.	cloudy.
S. S. Waesland, Flushing, Netherlands	29.69	754.1	53	11.7		nw.			4		10		nnw.	shr's	sh'rs			rainy.
ROTTERDAM LINE.																		
S. S. Schiedam, N. 48° 16′ W. 32° 44′*	29.98	761.5	50.5	10.3	80	w.			6		8		nw.	0	0	r'gh	w.	cloudy.
STATE LINE.																		
S. S. State of Florida, Glasgow, Scotland	29.62	752.3	47	8.3		ssw.			3		10		sw.	0	0			cloudy.
S. S. State of Georgia, N. 50° 51′, W. 30° 57′†	29.86	758.4	46	7.8		w.			6		5		w.			short	w.	showery.
THINGVALLA LINE.																		
S. S. Thingvalla, N. 41° 13′, W. 64° 47′†	30.47	773.9	46.4	8.0		ene.			2		2		ene.	0	0	sm'h	ene.	clear.
WHITE CROSS LINE.																		
S. S. Plantyn, N. 40° 23′, W. 61° 22′	30.29	769.4				e.			2-5		6		se.	0	0	sm'h		fair.
WHITE STAR LINE.																		
S. S. Adriatic, N. 51° 16′, W. 14° 50′†	29.66	753.4	53	11.7		wsw.			5		10		w.	sl't	sl't	mod.	w.	showery.
S. S. Baltic, N. 46° 16′, W. 39° 51′†	30.13	765 3	45	7.2	84	w.			3		10		wnw.	3 h'r	3 h'r	mod	con.	overcast.
S. S. Britannic, N. 42° 34′, W. 51° 48′†	30.17	766.3	33	0.6		nnw.			2		2		nw.	1 h'r	1 h'r	sm'h		d. clouds.
S. S. Celtic, New York, N. Y†	29.84	757.9	41	5.0		ne.			5		10		e.	12 h'r	12 h'r			cloudy.
WILSON LINE.																		
S. S. Otranto, N. 48° 40′, W. 22° 49′†	29.20?	741.7?	58	14.4		wsw.			6				wsw.			cross	wsw.	raining.
S. S. Romano, New York, N. Y*†	29.71	754.6	41	5.0														overcast.
S. S. Salerno, Falmouth, Eng*	29.80	756.9	61.3	16.3	56	wnw.			3		6		wnw.					d. clouds.
WINSOR LINE.																		
S. S. Catherine Whiting, Delaware Bay, Del.†	29.94	760.5				nne.			2				nw.	0	0			
MISCELLANEOUS.																		
Sch. Addie Fuller, Newport News, Va†	29.93	760.2	64	17.8	100	sw.				0	0			0.09	2.3			clear.
Bk. Adelaide, Rio de Janeiro, Brazil*†	30.15	765 8	80	26.7		calm			0									
Schr. Ajax, Off Fort Morgan, Ala†	30.34	770.6				sw.			1		9		ssw.	0	0			cloudy.
Bk. Alpha, Santiago de Cuba, W. I.†	29.95	760.7	78	25.6		n.			1		2		n.	1 h'r	1 h'r			fair.
Sch'r Annie R. Lewis, N. 28° 18′, W. 96° 00′†	30.09	764.3	76	24.4		sse			2		0			0	0	long	ese.	clear.
Bk. Antioch, S. 40° 00′ E. 45° 10′*†	29.55	750.6	60	15.6		nw.			6		9		nw.	3 h'r	3 h'r	sm'h	wsw.	misty.
Schr. Asa Eldridge, Key West, Fla†	30.11	764.8				e.			3		5		se.	0	0			
Bk. Aureola, S. 14° 08′, W. 35° 07′*†	30.15	765.8	88	31.1		e.			4		9		e.	2 h'r	2 h'r	h'vy	ssw.	squally.
Bkt. Carrie Heckle, Cienfuegos, Cuba, W. I.*†	30.14	765.5	81	27.2		n.			1		2		nne.	0	0			fair.
Bk. Celestina, S. 35° 03′. W. 54° 34′*†	30.09	764.3				calm			0		0			0	0	sm'h		clear.
Bk. Champion, Off Dover, Eng†	29.71	754.6				n.			5		5		nw.	3 h'r	3 h'r	sm'h		
S. S Compton, N. 24° 54′ W. 84° 16′†	30.03	762.7				se			4		3		se.	0	0	mod.	se.	clearing.
S. Dora, N. 40° 50′, W. 44° 25′†	30.10	764.5	62.6	17.0		ssw.			7		10		ssw.	3 h'r	3 h'r	mod.	ssw.	raining.
S. E. J. Spicer, N. 40° 14′, W 46° 00′†	30.07	763.8				sw.			6		10		sw.	24 h'r	24 h'r	mod.	ssw.	cloudy.
S. Enoch Train, N. 41° 10′, W. 49° 36′*	30.08	764.0				n.			4		10		nnw.	rain	rain	light	ne.	drizzling.
S. Exporter, S 14° 57′, W. 31° 00′*†	30.20	767.1				se.			4		8		ese.	2 h'r	2 h'r	h'vy	s.	squally.
Ship Festina Lente, N. 37° 45′, W. 60° 30′*	30.27	768.8	57	13.9		e.			4		10		e.	0	0	sm'h		cloudy.
U. S. F. C. S. FishHawk, Quantico, Va.†	30.01	762.2	50	10.0	78	nnw.			3		9?		calm	1.67	42.4			clear.?
S. Grecian, S. 40° 36′, E. 48° 24′*†	29.60	751.8	58	14.4		w.			6		10		w.	2 h'r	2 h'r	cross	nw.	cloudy.
Bk. Freya, N. 50° 28′, W. 11° 19′			57	13.9		sw.			4		2		w.	0	0	mod.	nnw.	fair.
Bk. Granville, Algoa Bay Africa*†	30.10	764.5				calm			0									clear.
Bk Hattie G. McFarland, Chesapeake Bay*†	29.95	760.7	54	12.2		nw.			3		8		nw.	6 h'r	6 h'r			cloudy.
Schr. Henry Denison, N. 35° 15′, W. 74° 44′†	29.92	760.0				sw.			5		4		nw.	0	0	high	sw.	fair.
S. Hedwig, N. 39° 59′, W. 60° 48′	30.34	770.6	48.0	8.9	76	nne.			5		4		nnw.	0	0	1	ne.	fine.
Schr. John L. Thomas, Serrana Cays, C. A.*†	30.04	763.0				nne.					3		ene.	0	0	light	nne.	fine.
Bg. John Wesley, Sagua la Grande, Cuba, W. I.†	29.95	760.7	78	25.6		ene.			2		0			0	0			clear.
Bk. J. na, N. 50° 13′ W. 8° 30′*†	30.00	762.0				sw.			2		5		wnw.	2 h'r	2 h'r	long	wnw	squally.
Bk. Josephine, N. 11° 42′ W. 76° 18′*†	29.98	761.5	83	28.3	79	ne.			5		10		ne.	¼ h'r	¼ h'r	mod.	ne	misty.
Bkt. Kryolith, N. 45° 04′, W. 13° 31′*†	29.98	761.5				sw.			6		10			0	0	hv'y	nw.	misty.
S. Lake Erie, N. 49° 30′ W. 15° 53′	29.63	752.6				sw.			6		10		sw	light	light	mod.	nw.	
S. S. Lamperts, N. 40° 08′, W. 9° 51′*	30.15	765.8	62.0	16.7	83	var.			1		10					5	nw.	misty.
Light House Tender, Laurel, Key West, Florida†	30.11	764.8	78	25.6		ese.			2		4		ese.	0	0			fair.
Schr. Maggie Abbott, Baracoa, Cuba, W. I*†	29.95	760.7				n.												
S. S. Malabar, N. 26° 02′, E. 35° 02′*†	29.96	761.0				n.			4					0	0			
Bg. Medina, Key Francis, Fla.†	30.17	766.3				e.			1		5		e.					fine.
S. S. Nebo, S. 22° 35′, W. 41° 11′†*	30.09	764.3				ene.			6		5?		e.	1 h'r	1 h'r	long	e.	cloudy?.
S. S. New York, N. 36° 19′ W. 2° 05′*†	30.02	762.5				w.							wsw.	0	0	hv'y	wsw.	fair.
Bk. Peppina, Bordeaux, France†	29.87	758.7	54	12.2	73	w.			4		5		w.					rainy.
Bg. Potomac, N. 9° 36′, W. 58° 39′*†	30.00	762.0				ene.			3				ene.			sm'h		fine.
S. Salisbury, S. 16° 04′, W. 30° 02′*	30.14	765.5	83.1	28.4	83	ese.			3-4		4		ese.	1 h'r	1 h'r	r'gh	ese	fair.
Schr. S. B. Hubbard, St. John's River, Fla*†	30.11	764.8	70	21.1		calm			0		0			0	0			fine.
Bkt. Spotless, S. 22° 46′ W. 40° 33′*†	30.20	767.1				se.							ne.			h'vy	s.	cloudy.
Bk. Stella, S. 29° 59′, W. 32° 43′*	30.09	764.3	70.7	21.5	91	calm			0		3		ne.	0	0	sm'h	w.	d. clouds.
S. S. Utopia, N. 40° 11′ W. 52° 43′†	30.42	772.7	55	12.8	68	n.			3		8		nne.	1 h'r	1 h'r	sl't	n.	showery.
Yacht Vega, N. 39° 00′, W. 70° 30′*†	29.90	759.4	40	4.4		wnw.			6					rain	rain	hv'y	se.	
S. Washington, N. 46° 55′, W 29° 53′*†	29.98	761.5				w			5		5		wsw.	3 h'r	3 h'r	r'gh	w.	fair.
Bg. Wauburn, N. 18° 19′ W. 55° 10′*†	30.10	764.5				e.			5		3		e.			sm'h		
S. Wm. Woodbury, N. 36° 58′, W. 54° 22′*†	30.00	762.0	61	16.1		nne.			7				nne.			light	nne.	clear.

International Chart I. April 27, 1882. Isobars and Isotherms.



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON APRIL 28, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours	.....	.....	30.02	762.5	73.8	23.2	81	sw.	.....	.....	4	.....	0	.....	.....	0	0	clear	Moiroud.
Algiers	.....	.....	29.97	761.3	71.6	22.0	64	w.	.....	.....	7	.....	1	.....	.....	0	0	very fair	Nicolas.
La Calle	.....	.....	30.00	762.0	64.4	18.0	80	nw.	.....	.....	4	.....	4	.....	.....	0	0	cloudy	Fonfréde.
Tunis	.....	.....	29.96	761.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.15	765.9	73.0	22.8	25	nnw.	.....	.....	3	.....	0	.....	.....	0	0	clear	Dumas.
Tebessa	.....	.....	30.09	764.2	61.5	16.4	58	w.	.....	.....	6	.....	6	.....	.....	0	0	very cloudy	Derché.
Geriville	.....	.....	.....	.....	66.9	19.4	15	nw.	.....	.....	1	.....	1	.....	.....	0	0	very fair	Longchamp.
Laghouat	.....	.....	30.17	766.2	75.2	24.0	66	se.	.....	.....	2	.....	0	.....	.....	0	0	clear	Abraham.
Biskra	.....	.....	30.10	764.4	77.0	25.0	21	nnw.	.....	.....	4	.....	0	.....	.....	0	0	clear	Malau.
Australian.																			
Melbourne, Victoria	29.72	754.9	29.81	757.2	52.7	11.5	66	w.	5	2.2	.....	.....	10	.....	.....	0.05	1.3	dull	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	28.97	735.8	29.50	749.4	60.8	16.0	71	se.	.....	.....	1	.....	10	.....	.....	0.165	4.2	raining	Prof. Ivan Stozir.
Cracow, I. R Observatory	28.79	731.2	29.52	749.7	71.6	22.0	39	se.	21.0	9.4	.....	.....	10	.....	.....	0.039	1.0	.....	Dr. Wierzbiski.
Eperies	28.73	729.8	29.57	751.0	70.9	21.6	45	s.	.....	.....	3	cs	9 s	.....	n.	0	0	.....	Julius Mikolik.
Gratz	28.31	719.0	29.56	750 9	43.9	6.7	100	nw.	.....	.....	4	.....	10	.....	.....	1.197	30.4	.....	Andreas Rospini.
Hermannstadt	28.28	718.4	29.65	753.0	70.9	21.6	44	se.	.....	.....	4	.....	10	.....	.....	1.091	27.7	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.26	717.9	29.62	752.3	43.2	6.2	87	wnw.	.....	.....	3	.....	10	.....	.....	0.476	12.1	raining	The Staff.
Lemberg	28.65	727.8	29.59	751.6	72.0	22.2	38	se.	.....	.....	2	.....	1	.....	.....	0	0	.....	Dr. T. Stanecki.
Pola	29.45	748.1	29.56	750.9	57.9	14.4	85	sw.	.....	.....	2	.....	7	.....	.....	0.480	12.2	.....	I. R. Hydrographic Office.
Szathmar	29.12	739.6	29.57	751.0	77.0	25.0	30	s.	.....	.....	5	.....	8	.....	.....	0.362	9.2	.....	Joseph Midlinszky, S. J.
Szegedin	29.30	744.3	29.58	751.2	66.2	19.0	89	s.	.....	.....	5	.....	10	.....	.....	0	0	.....	Karl Stancel.
Trieste	29.45	748.1	29.56	750.7	58.3	14.6	83	calm	.....	.....	0	.....	10	.....	.....	0.319	8.1	.....	Rieder.
Vienna	28.86	733.1	29.58	751.3	47.5	8.6	84	w.	.....	.....	3	.....	10	.....	.....	0.098	2.5	.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.17	740.9	29.27	743.4	45.4	7.4	84	se.	21	9.4	.....	.....	10	.....	.....	0.330	8.4	squally	W. Boswell.
Armagh, Observatory	28.95	735.3	29.19	741.4	51.8	11.0	72	wnw.	9	4.0	.....	.....	8	.....	.....	.....	.....	d. clouds	S. Call.
Bidston, Liverpool Obs'y	.....	.....	29.09	738.9	48.0	8.9	85	wnw.	10	4.5	.....	.....	9	.....	.....	.....	.....	overcast	John Hartnup.
Bolton, Sharples	28.56	725.4	29.08	738.6	50.4	10.2	64	ssw.	6	2.7	.....	.....	6	.....	.....	.....	.....	d. clouds	Thomas Mackereth. [A.S.
Bradford, Yorkshire	28.70	729.0	29.10	739.1	49.3	9.6	66	sw.	.....	.....	1	.....	10	.....	.....	0.14	3.6	raining	J. McLandsborough, F. R
Bridgetown, Barbadoes	29.96	761.0	29.99	761.7	82.0	27.8	67	ne.	.....	.....	1	.....	3	.....	.....	.....	.....	d. clouds	Corpl. J. Surgenor, A. H.C.
Cardington	.....	.....	29.16	740.7	55.4	13.0	63	sw.	.....	.....	1.0	.....	8	.....	.....	.....	.....	overcast	John McLaren.
Chatham, School M. E.	29.11	739.4	29.24	742.7	53.7	12.1	65	sw.	.....	.....	3	.....	6	.....	.....	blank	blank	d. clouds	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	29.19	741.4	29.42	747.3	52.7	11.5	72	w.	.....	.....	6	.....	8	.....	.....	.....	.....	squally	The Staff.
Fort Napier, Natal	27.63	701.8	29.85	758.2	76.2	24.6	56	calm	.....	.....	0	.....	0	.....	.....	.....	.....	blue sky	Pvt. E. K. Annis, A. H.C.
Free Town, Sierra Leone	29.67	753.6	29.90	759.4	86.0	30.0	72	nw.	.....	.....	1	.....	5	.....	.....	.....	.....	d. clouds	Sergt. John Robinson.
Gibraltar, Mediterranean	30.05	763.3	30.11	764.8	71.5	21.9	72	sw.	.....	.....	2	.....	0	.....	.....	.....	.....	blue sky	Opl. O. Baldwin.
Glasgow, Observatory	28.95	735.3	29.15	740.4	47.0	8.3	73	e.	.....	.....	2	.....	10 n;k	.....	.....	.....	.....	threatening.	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.05	737.9	29.22	742.2	54.2	12.3	68	ssw.	.....	.....	2	.....	4	.....	.....	.....	.....	d. clouds	The Staff.
Guernsey	29.07	738.4	29.36	745.7	52.5	11.4	83	wnw.	.....	.....	5	.....	9	.....	.....	.....	.....	drizzling	A. Collenette, F. M. S.
Kew, Observatory	29.19	741.4	29.23	742.4	49.7	9.8	71	wsw.	13	5.8	.....	.....	8	.....	.....	.....	.....	showery	The Staff.
Leicester, Museum	28.92	734.6	29.17	740.9	54.0	12.2	55	sw.	.....	.....	1	.....	4	.....	.....	.....	.....	d. clouds	J. C. Smith.
Malta, Mediterranean	29.84	757.9	29.92	760.0	64.2	17.9	52	w.	.....	.....	3	.....	2	.....	.....	.....	.....	blue sky	I. H. Whysall.
Nassau, Bahamas	30.05	763.3	30.10	764.5	77.0	25.0	67	s.	.....	.....	1	.....	4	.....	.....	.....	.....	d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	28.62	726.9	29.13	739.9	50.9	10.5	61	ssw.	.....	.....	2	.....	9	.....	.....	.....	.....	d. clouds	John Mac Email.
Oxford, Radcliffe Obs'y	28.97	735.8	29.20	741.7	51.5	10.8	61	sw.	.....	.....	5	.....	7	.....	.....	.....	.....	squally	The Staff.
Plymouth	29.28	743.7	29.36	745.7	56.0	13.3	70	nw.	.....	.....	5	.....	5	.....	.....	.....	.....	d. clouds	John Merrifield.
Sandwick Manse, Orkneys	.....	.....	29.25	742.9	48.1	8.9	85	ese.	40	17.9	.....	.....	10	.....	.....	.....	.....	misty	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.76	755.9	29.83	757.7	70.8	21.6	43	s.	.....	.....	1	.....	2	.....	.....	blank	blank	d. clouds	W. H. Lyne.
Sheffield	28.88	733.5	29.13	739.9	56.1	13.4	65	s.	.....	.....	2	.....	2	.....	.....	.....	.....	d. clouds	W. F. Cooper.
Siloth Rectory	29.10	739.1	29.13	739.9	46.8	8.2	87	ne.	.....	.....	1	.....	10	.....	.....	0.120	3.0	overcast	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	29.12	739.6	47.0	8.3	85	w.	2	0.9	.....	.....	10	.....	.....	.....	.....	overcast	Rev. S. J. Perry.
Stratfield Turgiss	.....	.....	.....	.....	53.9	12.2	63	sw.	.....	.....	3	.....	9	.....	.....	.....	.....	showery	Rev. C. H. Griffiths, F. M. S
Truro, Royal Institution	29.44	747.8	29.47	748.5	55	12.8	68	nw.	.....	.....	8	.....	4	.....	.....	.....	.....	d. clouds	W. Newcombe.
Valencia, Observatory	29.50	749.3	29.53	750.0	49.6	9.8	56	nw.	30	13.4	.....	.....	6	.....	.....	blank	blank	d. clouds	The Met'g'l Office.
Canadian.																			
Bathurst, N. B	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.02	762.5	30.06	763.5	31	— 0.6	78	e.	12	5.4	.....	.....	10 n	.....	.....	0	0	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	30.08	764.0	30.15	765.8	32	0.0	74	ne.	15	6.7	.....	.....	10 s	.....	ne.	0	0	cloudy	G. A. Blair.
Father Point, Quebec*	30.10	764.5	30.12	765 0	36	2.2	89	ne.	10	4.5	.....	.....	10 k	.....	e.	0	0	cloudy	J. McWilliams.
Fort Garry, Manitoba*	29.40	746.7	30.27	768.8	28	— 2.2	96	n.	8	3.6	.....	0	0	.....	.....	0	0	clear	James Stewart.
Halifax, N. S*	29.68	753.9	29.81	757.2	34	1.1	96	ne.	29	13.0	.....	.....	10 n	.....	.....	0.242	6.2	heavy rain	A. Allison.
Kingston, Ontario*	29.70	754.1	30.04	763.0	42	5.6	82	se.	9	4.0	.....	.....	10 ks	.....	s.	0.01	0.3	cloudy	A. P. Knight, M. A.
Montreal, Quebec*	29.82	757.4	30.03	762.7	38	3.3	82	e.	7	3.1	.....	.....	10 s	.....	.....	0	0	cloudy	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.14	740.1	29.84	757.9	38	3.3	89	e.	7	3.1	.....	.....	10 n	.....	e.	0.01	0.3	light rain	Rev. R. Mosley.
Port Dover, Ontario	29.17	740.9	29.87	758.7	46	7.8	94	sw.	15	6.7	.....	5 k	5 n	sw.	sw.	0.04	1.0	cloudy	H. Morgan.
Port Stanley, Ontario	29.23	742.4	29.88	758.9	44	6.7	93	sw.	18	8.0	.....	5 k	0	w.	.....	0.06	1.5	fair	M. Payne.
Quebec, Quebec*	29.77	756.1	30.10	764.5	34	1.1	78	e.	.....	.....	5	.....	8 n	.....	e.	0	0	cloudy	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.43	747.5	29.99	759.4	39	3.9	86	se.	8	3.6	.....	.....	10 s	.....	se.	0.02	0.5	threatening.	W. H. McIntyre.
Saugeen, Ontario*	29.06	738 1	29.78	756.4	39	3.9	92	sw.	14	6.3	.....	.....	10 s	.....	.....	0.21	5.3	cloudy	
St. Andrews, N. B	29.88	758.9	29.93	760.2	33	0.6	92	ne.	6	2.7	.....	.....	10 n	.....	.....	.....	.....	light snow	
Sydney, C. B*	30.13	765.3	30.20	767.1	29	— 1.7	100	e.	13	5.8	.....	.....	10 n	.....	.....	0	0	cloudy	T. C. Hill, C. E.
Toronto, Ontario*	29.46	748.3	29.85	758.2	41	5.0	92	s.	5	2.2	.....	.....	10 n	.....	w.	0.09	2.3	light rain	Magnetic Observatory.
Yarmouth, N. S*	29.63	752.6	29.70	754.4	35	1.7	92	ne.	10	4.5	.....	fg.	fg.	.....	.....	0.17	4.3	sleet & fog	Lt. F. E. Wilmot, R. N.
Sub-series.																			
St. Johns, Newfoundland	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	29.90	759.4	29.93	760.2	71.0	21.7	88	se.	7.0	3.1	.....	0	0	.....	.....	0	0	hazy	John Duthie.
Cape Town, C. G. H. Obs'y	29.94	760.5	29.98	761.5	62.7	17.1	100	nw.	9	4.0	.....	10	10	.....	.....	0	0	.....	The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Chinese (*Sub-series*).																			
Hankow	29.70	754.4	29.97	761.2	70.4	21.3	81	s.			2		5			0	0		N. Titoushkin.
Zi-Ka-Wei, near Shanghai.	29.77	756.2	29.80	756.8	68.0	20.0	82	s.	5.1	2.3		9cs;ck	0	w.		0	0	covered	M. Marc Dechevrens, S.J.
Danish.																			
Copenhagen	29.64	752.8	29.69	754.0	46.9	8.3	62	s.	16.8	7.5			1						Oversergent Fischer.
Fanöe	29.54	750.4	29.56	750.9	52.3	11.3	74	sse.			4		7						Overloerer Lauridsen.
Godthaab, Greenland	30.10	764.6	30.15	765.7	29.3	— 1.5	84	sse.			2		8						S. Kleinschmidt.
Stykkisholm, Iceland	29.80	756.8	29.84	757.9	16.5	— 8.6	94	ne.			8		8						A. O. Thorlacius.
Thorshavn	29.20	741.6	29.23	742.5	46.4	8.0	82	sse.	13	6			10						Overloerer Bergh.
Vestervig	29.50	749.4	29.60	751.7	48.6	9.2	63	ese.			2		10						Loearer Oesterboi.
French.																			
Agen, Normal School	29.18	741.2	29.82	757.5	57.6	14.2	76	w.			2	2 c	kn		w.	0.016	0.4		M. Labroue, Director.
Alençon, Normal School	29.00	736.6	29.55	750.6	45.7	7.6	94	w.			4		10 n	n.	n.	0.29	5.	light rain	M. Nicot, Director.
Arras, Engineer School	29.12	739.7	29.38	746.2	51.8	11.0	61	w.			6				e.	0	0		Capt. Bertrand, Dir.
Avginon, Normal School	29.66	753.4	29.74	755.4	61.5	16.4	49	nw.			2		10		n.	0	0	covered	M. Giraud, Director.
Bar-sur-Seine	29.03	737.4	29.60	751.7	44.2	6.8	88	s.			1		10		w.	0.232	5.9	covered	M. Saillard, Director.
Beauvais, Normal School	29.18	741.1	29.44	747.8	54.1	12.3	59	w.			2		8		w.	0.205	5.2	very cloudy	M. Frère Eugène Marl.
Besançon, Normal School	28.66	728.0	29.54	750.4	54.0	12.2	67	ssw.			1		10 n		sw.	0	0	covered	M. Gobin, Director.
Bordeaux, Observatory	29.52	749.9	29.78	756.5	58.8	14.9	56	wnw.			1		8		w.	0.039	1.0	very cloudy	M. Rayet, Director.
Bourges, Normal School	29.08	738.5	29.62	752.4	53.2	11.8	69	w.			2		k		w.	0.071	1.8		M. Postel, Director.
Brest, Naval Observatory	29.40	746.7	29.64	752.9	55.4	13.0	81	w.			4		6			0.059	1.5		M. de Kermaree, Dir.
Caen, Normal School	29.51	749.5	29.58	751.3	51.4	10.8	90	w.			2		1c		e.	0.217	5.5	covered	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.21	741.9	29.52	749.9	56.1	13.4	68	sw.			2		10			0	0	covered	M. Judot, Director.
Charleville, Normal School	29.00	736.7	29.52	749.8	40.6	4.8	69	s.			1		10			0.24	6.	covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.28	718.4	29.62	752.3	55.0	12.8	55	w.			4		5		w.	0.004	0.1	½ covered	M. Alluard, Director.
Cluny, Normal School	28.81	731.8	29.65	753.0	47.5	8.6	78	s.			1			ssw.		0	0		M. de Villemontée, Dir.
Commercy, Normal School	28.71	729.1	29.56	750.9	49.1	9.5	62	sse.			4		10 n	sse.	sse.			raining	Dr. Coulet, Director.
Gap, Normal School	27.15	689.5	29.65	753.0	53.6	12	54					o	1 n		n.	0.08	2.		M. Jeangirard, Director.
Gréasque, du. Rhone	28.60	720.3	29.71	754.6	55.2	12.9	47	nw.			4		7		nw.	0	0		M. Kina, Director.
Grenoble, Normal School	28.91	734.4	29.67	753.7	54.0	12.8	66	wsw.			1		10			0.004	0.1	covered	M. Ablard, Director.
Guéret, Normal School	28.08	713.3	29.69	754.1	43.7	6.5	79	sw.			4		n		sw.	0.12	3.		M. Rivoire, Director.
Lamballe, Normal School	29.26	743.3	29.53	750.1	57.6	14.2	55	w.			8		5		w.	0.04	1.	stormy	M. Olitrault, Director.
Lescar, Normal School	29.32	744.8	29.89	759.2	54.0	12.2	81	w.			4		10			0	0	covered	M. Chauvin, Director.
Lorient, Naval Observatory	29.50	750.7	29.66	753.3	57.2	14.0	62	w.			8		8	nw.	w.	0.157	4.0	¾ covered	Lt. T. Curré, Director.
Lyon, St. Genis-Laval	28.65	727.0	29.70	754.4	50.0	10.0	76	s.			1		1c		w.	0.020	0.5	light rain	M. André, Director.
Mans, Normal School	29.20	743.2	29.57	751.0	54.0	12.2	59	w.			4		5		e.	0.130	3.3	cloudy	M. Piboen, Director.
Marseille, Observatory	29.47	748.4	29.73	755.2	59.2	15.1	38	w.			4		9		wnw.	0	0		M. Stephan, Director.
Montlouis l'instituteur	24.62	625.3	29.46	748.3	46.8	8.2	62	sw.	9.4	4.2			9						M. Cave, for Dr. Fines.
Montpellier, Normal School	29.62	752.4	29.75	755.7	62.2	16.8	68	wsw.			3		5		nw.	0	0	cloudy	M. Galzin, Director.
Nancy, Normal School	28.76	730.5	29.54	750.3	52.9	11.6	46	sse.			2	5 cs	0			0	0	cloudy	M. Hasse, Director
Nantes, Observatory	29.50	749.2	29.66	753.3	51.3	10.7	57	wnw.			2-4		7 k;kn		wnw.	0.087	2.2		M. Larocque, Director.
Perpignan, Observatory	29.70	754.4	29.81	757.1	62.6	17.0	55	nw.	18.6	8.3			8	nnw.	wnw.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.00	533.5			22.6	— 5.2		nw.			3-4		10		nw.	0.543	13.8	snowy	Gen'l de Nansouty, Dir.
Privas, Normal School	28.65	727.8	29.71	754.7	54.0	12.2	72	s.			1		5	s.		0	0	fair	M. Taillieu,
Puy de Dôme Obs'y, Summit	24.67	626.7			31.5	— 0.3	100	wsw.			8		10			0.366	9.3	foggy	M. Alluard, Director.
Rochefort, Naval Obs'y	29.71	754.6	29.74	755.4	56.1	13.4	91	w.			4		2		w.	0.031	0.8	¼ covered	Lt. E. Decaute, Director.
Roche-sur-Yon, N. School	29.39	746.6	29.61	752.0	55.8	13.2	62	w.			4		5			0.217	5.5	cloudy	M. Mouillot, Director.
Rodez, Normal School	27.00	702.5	29.84	757.8	43.2	6.2	85	w.			2		10			0.031	0.8	raining	M. Serger, Director.
Rouen, Normal School	29.38	746.3	29.43	747.5	50.0	10	71	sw.			1		10	nw.		0.189	4.8	raining	M. Brotier.
Saint Maur, Observatory	29.32	744.8	29.49	749.0	53.2	11.8	66	wnw.			2		10	ssw.	w.	0.236	6.0		M. Renou, Director.
Toulouse, Observatory	29.10	740.7	29.88	759.0	55.0	12.8	89	w.			3		1c	nw.		0.264	6.7	covered	M. Baillaud, Director.
Versailles, Observatory	29.00	736.5	29.49	749.0	48.2	9.0	81	w.			3					0.413	10.5		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29 20	741.7	29.49	749.1	51.6	10.9	61	wnw.			2		9		wnw.	0.307	7.8	showery	M. Marié Davy, Director
German.																			
Bamberg	28.76	730.4	29.60	751.7	50.0	10.0	70	se.			2	o	9s;k			0.016	0.4		Prof. Dr. Hoh.
Berlin	29.42	747.3	29.60	751.8	51.4	10.8	70	ne.			1		10			0.031	0.8		Prof. Dr. Arndt.
Breslau	29.03	737.4	29.56	750.7	64.4	18.0	67	se.			1		9	s;wsw		0	0		Royal University Obs'y.
Carlsruhe	29.15	740.4	29.58	751.3	55.2	12.8	47	e.			2		10	s.		0.031	0.8		Albert Senz.
Cassel	28.82	732.1	29.54	750.2	56.5	13.6	49	s.			2		8	s.		0	0		Dr. H. Möhl.
Frankfort on the Main	29.21	741.8	29.56	750.9	56.3	13.5	41	s.			1		6			0	0		Physical Society.
Friedrichshafen	28.21	716.4	29.63	752.6	49.3	9.6	88	sw.			3		2	sw.		0	0		Wilhelm, Chief Tel.
Hamburg	29.50	749.3	29.60	751.7	52.7	11.5	66	sse.			3		9			0	0		E. Preller.
Kiel	29.60	751.7	29.61	752.1	50.2	10.1	82	ese.			1		10			0	0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.19	741.5	29.61	752.1	51.1	10.6	72	ne.			2		10	ne.		0.035	0.9		H. Leppig, Asst.
Magdeburg	29.41	746.9	29.59	751.6	54.1	12.3	67	se.			1		10 ks		se.	0	0	stormy	Dr. Assmann.
Memel	29.71	754.6	29.76	755.8	60.4	15.8	55	ne.			2	6 cs	0						Issermann.
Munich	27.82	706.6	29.66	753.3	41.7	5.4	83	calm			0		10	n.		0.787	20.0	raining	Central Station.
Neufahrwasser	29.68	753.8	29.69	754.2	49.5	9.7	87	n.			2		7	nw.		0.146	3.7		A. Lothes.
Neustadt, Palatinate	29.04	737.7	29.56	750.8	55.0	12.8	50	s.			1		8	s.		0	0		Dicknether.
Stuttgart	28.64	727.5	29.52	749.8	55.4	13.0	47	sw.			5		7	w.		0.035	0.9		Prof. Dr. Schoder.
Wustrow	29.64	752.9	29.67	753.6	54.1	12.3	63	e.			2	o	8 k			0	0		Profs. Brandes & Reimer.
Greek.																			
Athens	29.48	748.9	29.87	758.8	66.2	19.0		sw.			4.0	6 k				0.012	0.3		Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.71	754.7	29.76	755.9	86.8	30.4	72	wsw.	30.0	13.4			0			0	0	misty	
Deesa	29.21	742.0	29.66	753.4	104.7	40.4	23	w.	12.1	5.4			0			0	0	blue sky	
Bombay	29.76	755.9	29.80	756.9	87.2	30.7	71	wsw.	15.0	6.7			0			0	0	blue sky	
Poona, Yarrowda	27.89	708.4	29.68	754.0	95.0	35.0	33	sw.	27.0	12.1			0			0	0		
Belgaum	27.26	692.5	29.76	755.8	84.6	29.2	55	sw.	11.0	4.9			4	w.		0	0	d. clouds	
Lahore	28.88	733.6	29.59	751.6	100.8	38.2	12	nw.	2.6	1.2			4	ne.	ne.	0	0	misty	
Roorkee	28.77	730.7	29.63	752.6	99.3	37.4	14	se.	1.8	0.8			0			0	0	blue sky	
Agra	29.08	738.8	29.62	752.3	106.1	41.2	9	nw.	3.2	1.4			0			0	0	blue sky	
Nagpur	28.65	727.6	29.64	752.8	104.7	40.4	8	ne.	3.9	1.7			0			0	0		
Jubbulpore	28.35	720.0	29.64	752.8	103.7	39.8	7	w.	2.6	1.2			0			0	0	blue sky	
Lucknow	29.29	744.0	29.65	753.2	101.4	38.6	12	calm	0.4	0.2			0			0	0	blue sky	
Allahabad	29.35	745.4	29.65	753.0	98.5	36.9	15	nw.	2.0	0.9			0			0	0	blue sky	
Patna	29.53	749.9	29.70	754.5	95.9	35.5	29	ne.	6.8	3.0			0			0	0	blue sky	
Hazaribagh	27.72	704.0	29.66	753.3	94.6	34.8	19	n.	5.6	2.5			0			0	0	blue sky	
Cuttack	29.67	753.6	29.75	755.6	83.0	28.3	56	ssw.	6.7	3.0			0			0	0	blue sky	
Calcutta, Alipore	29.70	754.5	29 73	755.0	91.0	32.8	41	s.	8.0	3.6			0			0	0	blue sky	
Dhubri	29.62	752.3	29.73	755.2	83.4	28.6	61	ene.	12.2	5.4			6			0	0	d. clouds	
Chittagong	29.71	754.6	29.80	756.9	84.9	29.4	68	sw.	2.9	1.3			0			0	0	blue sky	
Sibsagar	29.46	748.2	29.79	756.6	82.2	27.9	69	ne.	4.2	1.9			0			0	0	blue sky	
Jeypore	28.25	717.6	29.63	752.6	101.7	38.7	11	wsw.	5.0	2.2			0			0	0	blue sky	
Zanzibar, Africa	29.95	760.7			83.1	28.4	74	s.	7.8	3.5			7		sse.	0.04	1.0	d. clouds	
Bellary	28.28	718.3			98.5	36.9	11	se.	4.9	2.2		4 ck	0			0	0	d. clouds	
Trichinopoly	29.53	750.0			96.2	35.7	36	ese.	1	0.4			5			0	0	d. clouds	
Italian.																			
Udine	29.14	740.2	29.55	750.5	54.1	12.3	92	e.	1.3	0.6			10			1.669	42.4		Prof. Giovanni Clodig.
Milan	28.99	736.4	29.50	749.4	63.5	17 5	35	sw.	5.6	2.5			1			0	0		Prof. Schiaparelli.
Padua	29.43	747.4	29.54	750.2	67.8	19.9	62	sse.	8.1	3.6			10	s.		0.280	7.1		Prof. Dott. Lorenzoni.
Moncalieri	28.61	726.7	29.51	749.5	61.0	16.1	43	sse.	4.9	2.2			2	se.		0	0		Prof. P. F. Denza.
Genoa	29.38	746.3	29.57	751.1	60.6	15.9	60	sw.	8.1	3.6			0			0.028	0.7		Prof. G. M. Garibaldi.
Mondovi	27.59	700.9	29.56	750.7	59.5	15.3	46	sse.			4		1	wnw.		0.138	3.5		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
ITALIAN.—Continued.																			
Pesaro	29.53	750.1	29.58	751.3	55.0	12.8	80	sw.	8.7	3.9			10	sw		0.213	5.4		Prof. Luigi Guidi.
Florence	29.33	744.9	29.58	751.3	57.6	14.2	76	nw.			2		10			0.323	8.2		Prof. Costantino Pitter.
Leghorn	29.47	748.5	29.55	750.6	60.4	15.8	63	wsw.	0.7	0.3			4			0.051	1.3		Prof. P. Monte.
Rome	29.46	748.2	29.63	752.6	60.4	15.8	68	wsw.	17.4	7.8			10			0.244	6.2		Prof. P. S. Ferrari.
Lecce	29.47	748.6	29.72	754.9	63.5	17.5	50	sw.	24.8	11.1			6	sw.		0.543	13.8		Prof. O. de Giorgi.
Cosenza	28.90	734.1	29.78	756.5	56.1	13.4	73	ssw.	8.1	3.6			10	w.		0.945	24.0		Prof. D. Conti.
Cagliari	29.61	752.0	29.80	756.9	62.2	16.8	44	wnw.			6		6	w.		0.850	21.6		Prof. A. Pacinotti.
Palermo	29.60	751.9	29.85	758.2	62.2	16.8	42	wsw.	15.0	6.7			7	wnw.		0.154	3.9		Prof. G. Giacciatore.
Syracuse	29.79	756.7	29.84	757.8	66.2	19.0	48	wnw.	18.1	8.1			3	wnw.		0	0		Prof. Vincenzo Gulliano.
Sub-series.																			
Naples, S. R	29.16	740.6	29.68	753.9	55.2	12.9	82	sw.	8.7	3.9			10	wsw.		0.260	6.6		Prof. T. Brioschi.
Stelvio	21.74	552.3			33.3	0.7	77	sw.			4		10			0	0	misty	Prof. P. F. Denza.
Valdobbia	21.79	553.4			37.4	3.0	68	se.			6		6			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Aomori	29.45	748.0	29.48	748.8	58.2	14.6	70	sse.	22.8	10.2			10 8		sse.	0	0	overcast	K. Ogawa.
Hakodate	29.51	749.5	29.52	749.8	51.0	10.6	96	ese.	39.0	17.4			10			1.745	44.3	covered	
Hiroshima, I. M. Obs'y	29.59	751.6	29.61	752.1	59.2	15.1	84	sw.	9.0	4.0		0	0			0	0	clear	K. Sasaki.
Kanazawa	29.49	749.0	29.60	751.8	56.9	13.8	86	sw.	12.7	5.7		ck	10 8			0.540	13.7	overcast	S. Endo.
Kioto	29.38	746.2	29.55	750.6	62.8	17.1	86	nnw.	2.7	1.2		ck	8 8			0.111	2.8	fair	M. Tojima.
Kochi	29.59	751.6	29.61	752.1	63.5	17.5	71	w.	5.0	2.2		0	0			0	0	clear	
Nagasaki, I. M. Obs'y	29.58	751.3	29.78	756.4	58.7	14.8	82	w.	4.0	1.8		ck	9 8			0	0	cloudy	
Niigata	29.49	749.0	29.52	749.8	58.4	14.7	64	w.	10.7	4.8			10 n			0.270	6.9	light rain	S. Takehayashi.
Nobiru	29.52	749.8	29.54	750.3	54.7	12.6	94	se.	38.3	17.1			10 n		se.	1.200	30.5	stormy	H. Midzushima.
Sapporo					50.4	10.2	92	se.	34.2	15.3			10			0.071	1.8	raining	
Tokei Obs'y, Yeddo	29.35	745.5	29.42	747.2	59.9	15.5	99	nw.	7.3	3.3			10 n		nnw.	0.770	19.6	light rain	The Staff.
Wakayama	29.53	750.0	29.58	751.3	61.8	16.6	81	nw.	0.7	0.3		0	0			0.015	0.4	clear	Y. Kuwamuea.
MAURITIUS.																			
Mauritius Observatory	29.85	758.2	30.04	763.0	79.2	26.2	66	ese.	13.5	6.0		0	2 k		ese.	0	0	clear	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.68	601.5	29.90	759.5	64.8	18.2	61	calm	0	0			fg			0	0	foggy	Vicente Fernandez.
Leon	24.36	618.7	29.97	761.2	63.7	17.6	64	nne.			1	0	0			inap.	inap.		Prof. M. Leal.
Mazatlan	29.63	752.5	29.89	759.1	68.0	20.0	82	nnw.	0.9	0.4		4 cs	0	sw.		0	0	foggy	F. Quijano, U. E.
Mexico, Central Obs'y	23.09	586.5	30.17	766.3	53.6	12.0	70	calm	0	0		0	0			0	0	foggy	The Staff.
Morelia	24.10	612.0	30.16	766.0	62.6	17.0	74	s.			2	0	0			0	0	fine	M. Tena, M. D.
Pabellon, Aguascalientes	23.94	608.2	29.91	759.8	64.2	17.9	48	calm	0	0		1 0	0	w.		0	0	clear	M. V. de Leon, M. E.
Puebla, Catholic Institute	23.38	593.8	30.14	765.8	52.2	11.2	80	calm	0	0		0	0			0	0	clear	Prof. P. Spina.
San Luis Potosi	24.17	614.0	30.12	765.0	59.5	15.3	48	e.			1	0	0			0	0	clear	G. Barroeta, M. D.
Zacatecas	22.54	572.5	30.12	765.0	60.9	16.0	50					0	0			0	0	gloomy	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.39	746.4	29.39	746.4	46.6	8.1		s.			5					0	0		
Groningen	29.39	746.6	29.45	748.0	52.3	11.3		s.			4					0	0		
Helder	29.39	746.6	29.39	746.6	51.6	10.9		sse.			4					0.087	2.2		
Hellevoetsluis	29.46	748.3	29.46	748.3	47.1	8.4	87	s.			4					0	0		
Utrecht	29.38	746.3	29.43	747.5	54.0	12.2	60	sse.			5		8			0.028	0.7	very cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.47	748.5	29.53	750.1	46.0	7.8	78	s.	7	3			8			0.146	3.7		
Brono	29.65	753.2	29.69	754.2	45.0	7.2	50	n.	9	4			1			0	0	raining	
Christiania	29.47	748.5	29.62	752.3	43.5	6.4	90	e.	4	2			10						
Gjæsvær	29.72	755.0	29.75	755.6	37.2	2.9		w.			6		10						
Lodingen	29.79	756.7	29.84	757.9	36.7	2.6	51	calm			0		0						
PORTUGUESE.																			
Angra, Azores					63.3	17.4	82	wsw.	4.9	2.2			4			0	0		Dr. J. A. Sampaio.
Campo Major	29.15	740.4	30.14	765.5	66.7	19.3	61	wnw.	4.9	2.2			5			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.15	765.9	30.24	768.1	67.5	19.7	68	sw.					3			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.87	758.9	30.23	767.9	65.8	18.8	70	nw.	10.5	4.7			7			0.004	0.1		The Staff.
Ponta Delgada, Azores	30.29	769.4	30.36	771.2	70.9	21.6	59	sw.	3.1	1.4			5			0	0		
Saint Paul de Loando	29.73	755.2	29.93	760.3	83.1	28.4	84	nnw.	0.7	0.3			1	sse.		0	0		
Serra da Estrella	25.36	644.1	30.13	765.2	46.4	8.0	100	wnw.	40.9	18.3			10			2.886	73.3	foggy	
RUSSIAN.																			
Akmolinski	28.69	728.8	29.76	755.9	52.2	11.2	79	sw.	16	7		5 ck	0			0	0		Major K. Lasarew.
Archangel	29.78	756.4	29.80	756.9	59.2	15.1	44	se.	4	2			10			0	0		Capt. Sseliwerstow.
Astrakhan	29.95	760.7	29.87	758.6	59.4	15.2	44	nw.	18	8		0	8 ks			0	0		Capt. Wisganow.
Barnaul	29.42	747.3	29.91	759.8	57.2	14.0	29	ne.	2	1			4			0	0		Meteorological Obs'y.
Dorpat	29.55	750.6	29.79	756.6	63.3	17.4	53	nne.	4	2		0	2 k			0	0		Observatory.
Ekaterinburg	28.80	731.6	29.75	755.7	55.4	13.0	41	ne.	4	2		8 c	0			0	0	light clouds	Meteorological Obs'y.
Kasan	29.60	751.9	29.88	758.9	44.1	6.7	66	calm	0	0			10			0	0		Observatory.
Kertch	29.91	759.6	29.93	760.1	62.6	17.0	60	ese.	4	2		0	0			0	0		Lagorio & Sastyrex.
Kieff	29.20	741.6	29.80	757.0	72.3	22.4	30	se.	9	4		ck	4 ks			0	0		Observatory.
Lugan	29.67	753.5	29.87	758.6	69.8	21.0	26	w.	9	4			7			0	0		Meteorological Obs'y
Moscow	29.35	745.5	29.81	757.2	63.0	17.2	37	n.	4	2		0	0			0	0		Meteorological Obs'y.
Nikolaiev	29.83	757.7	29.90	759.5	71.6	22.0	47	s.	9	4		0	0			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor	29.66	753.4	29.75	755.6	36.3	2.4	94	e.	13	6			10			0	0		Lieut. Iwanow.
Pekin, China	29.59	751.5	29.73	755.1	61.3	16.3	11	nw.	27	12		3 ck	0			0	0		Physical Observatory
St. Petersburg	29.77	756.2	29.79	756.6	53.2	11.8	61	nw.	9	4			10 ks;n			0	0		Central Physical Obs'y
Semipolatinsk	29.24	742.8	29.89	759.2	61.0	16.1	43	calm	0	0			10			0	0	light clouds	Major Lasaren.
Tashkend, Laboratory	28.56	725.4	30.11	764.9	63.0	17.2	58	calm	0	0			0			0.343	8.7		Teich, A. M.
Tiflis	28.51	724.1	29.88	759.0	69.1	20.6	33	nw.	18	8		0	4 n			0	0		Physical Observatory
Vladivostock	29.17	740.9	29.24	742.6	46.4	8.0	93	calm	0	0			10 n			0.516	13.1		
Warsaw	29.18	741.2	29.58	751.4	73.4	23.0	31	sse.	16	7		9 ck	0						Astronomical Obs'y
Wilna	29.31	744.5	29.71	754.6	72.3	22.4	42	s.	4	2			5			0.016	0.4		Berg, Assistant.
Yeniseisk	29.07	753.6	29.96	760.9	48.7	9.3	39	w.	4	2			10			0	0	light clouds	M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	29.75	755.6	29.85	758.2	65.7	18.7	58	w.	3.8	1.7		1 c;ck	0			0	0		Antonio Rave, Director.
Bilbao, Met. Obs'y	29.96	761.0	30.02	762.5	55.4	13.0	82	nw.	3.8	1.7			10			0.472	12.0	covered	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.02	686.4	29.98	761.5	54.5	12.5	82	sw.	9.8	4.4			10			0	0	covered	Domingo Martin.
Madrid, Royal Obs'y	27.80	706.0	29.98	761.4	66.9	19.4	49	w.	24.8	11.1			10			0	0	almost cov.	The Staff.
Murcia, Met. Obs'y	30.06	763.6	30.22	767.5	79.5	26.4	37	ssw.	5.1	2.3		0	8			0	0	almost clear	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.13	740.0	30.03	762.7	60.3	15.7	84	w.	8.7	3.9		0	1			0	0	clear	R. Gil Vallanueva, Dir.
Sub-series.													10			0.126	3.2	covered	
Havana, Cuba, W. I	29.92	760.0	29.99	761.7	72.4	22.4	79	e.	4.3	1.9		0	0			0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.85	758.3	29.91	759.8	84.9	29.4	79	ssw.	9.5	4.2			9 km	sw.		0	0	threatening	F. Faura, S. J.
San Fernando, Naval Obs'y	30.09	764.3	30.19	766.8	64.2	17.9	61	wnw.	2.1	0.9		0	0			0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	29.91	759.6	30.00	761.9	76.6	24.8	89	se.	4.6	2.1		7 cs	6 k	se.	se.	0.827	21.0	d. clouds	Manuel Maeu.
Tuguegarao, Philippine Id's	29.78	756.4	29.92	760.0	81.3	27.4	75	nw.	9.4	4.2		0	4 k		nnw.	0	0	cloudy	José L. Yrastorza.
SWEDISH																			
Haparanda	29.64	752.8	29.68	753.8	36.3	2.4	89	n.			4		10			0	0		
Umea	29.73	755.2	29.78	756.5	41.4	5.2	94	n.			2		10			0	0		
Hernosand	29.73	755.2	29.78	756.5	41.0	5.0	81	ne.			2		10			0.102	2.6		
Stockholm	29.56	750.9	29.74	755.4	47.7	8.7	80	e.			2		10			0	0		
Wisby	29.63	752.7	29.69	754.2	50.0	10.0	76	wnw.			2		10			0	0		
Sub-series.																			
Upsala	29.65	753.0	29.73	755.2	46.4	8.0	81	ne.	6.5	2.9			10		ese.	0.004	0.1		S. G. Fineman.
SWISS.																			
Geneva	28.24	717.4	29.67	753.7	53.8	12.1	41	ssw.			3					0.280	7.1	covered	The Observatory

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
TURKISH.																			
Constantinople	.....	.....	29.87	758.7	73.4	23.0	40	sw.	9	4.0	.....	.....	4	.....	sw.	0	0	.....	The Observatory.
Valona	.....	.....	29.83	757.7	66.4	19.1	.....	sw.	.....	.....	2	.....	5	.....	.....	0	0	cloudy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	29.95	760.6	80.1	26.7	52	w.	.....	.....	1	0	0	.....	.....	0	0	.....	Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	29.98	761.5	30.06	763.5	45	7.2	60	ne.	2	0.9	.....	.....	10 s	.....	.....	0.12	3.0	cloudy	J. O. Barnes.
Alpena, Michigan	29.26	743.2	29.95	760.7	36	2.2	89	nw.	6	2.7	.....	.....	10 s	.....	.....	0.38	9.7	cloudy	Jas. J. Fitzgerald.
Atlanta, Georgia	28.91	734.3	30.09	764.3	60.0	15.6	70	e.	7	3.1	.....	1 c	0	calm	.....	0.14	3.6	clear	H. Hall.
Atlantic City, New Jersey	30.07	763.8	30.08	764.0	45.2	7.3	89	ne.	2	0.9	.....	.....	10 s	.....	n.	0	0	cloudy	Jas. M. Watson.
Augusta, Georgia	29.88	758.9	30.07	763.8	64	17.8	68	ne.	12	5.4	.....	1 cs	0	.....	.....	0	0	clear	John Healy.
Baltimore, Maryland	30.06	763.5	30.11	764.8	49	9.4	86	calm	0	0	.....	0	fg.	.....	.....	0	0	clear	Robert Seyboth.
Barnegat, New Jersey	30.07	763.8	30.09	764.3	42.3	5.7	78	ne.	1	0.4	.....	.....	10 s	.....	nw.	0.02	0.5	cloudy	Chas. F. Merritt.
Bismarck, Dakota	28.49	723.6	30.36	771.1	34	1.1	88	nw.	10	4.5	.....	1 c	0	.....	.....	0.02	0.5	clear	Cyrus Cramer.
Boise City, Idaho	27.51	698.7	30.35	770.9	46	7.8	56	w.	2	0.9	.....	0	0	.....	.....	0	0	clear	B. E. Light.
Boston, Massachusetts	29.85	758.2	30.01	762.2	38.0	3.3	82	nw.	14	6.3	.....	.....	10 s	.....	n.	1.69	42.9	cloudy	O. B. Cole.
Brownsville, Texas	29.83	757.7	29.88	758.9	75	23.9	90	se.	5	2.2	.....	.....	10 s	.....	se.	0	0	cloudy	J. C. Galloway.
Buffalo, New York	29.11	739.4	29.88	758.9	44.1	6.7	93	s.	28	12.5	.....	.....	10 ks;s	.....	sw.	0.25	6.3	cloudy	Wm. Finn.
Burlington, Vermont	29.72	754.9	30.02	762.5	38.5	3.6	88	calm	0	0	.....	.....	10 n	.....	s.	0.16	4.1	light rain	G. C. Schaeffer.
Cairo, Illinois	29.68	753.9	30.09	764.3	56.6	13.7	71	e.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	W. H. Ray.
Campo, California	27.41	696.2	29.99	761.7	37.4	3.0	72	s.	5	2.2	.....	0	c	.....	.....	0	0	clear	W. H. Clendenon.
Camp Thomas, Arizona	27.19	690.6	29.92	760.0	48	8.9	38	calm	.....	.....	0	2 cs	0	.....	.....	0	0	clear	J. T. Fitzgerald.
Cape Henry, Virginia	30.11	764.8	30.13	765.3	50	10.0	93	ne.	1	0.4	.....	0	hz.	.....	.....	0.02	0.5	clear	J. E. Lanouette.
Cape May, New Jersey	30.05	763.3	30.08	764.0	49	9.4	77	e.	1	0.4	.....	0	0	.....	.....	0	0	clear	W. Bolten.
Cedar Keys, Florida	30.01	762.2	30.03	762.7	71	21.7	84	n.	3	1.3	.....	3 cs	0	.....	.....	0	0	clear	F. W. Mixer.
Champaign, Illinois	29.24	742.7	30.08	764.0	52.3	11.3	69	n.	10	4.5	.....	4 k	0	nw.	.....	0	0	fair	L. A. Welsh.
Charleston, S. Carolina	29 98	761.5	30.04	763.0	67	19.4	84	e.	9	4.0	.....	0	9 s	.....	e.	0.35	8.9	cloudy	J. H. Smith.
Charlotte, N. Carolina	29.26	743.2	30.12	765.0	57.0	13.9	69	e.	6	2.7	.....	0	sk.	.....	.....	0.02	0.5	clear	D. O. Donoghue.
Chattanooga, Tennessee	29.29	744.0	30.12	765.0	52.0	11.1	86	calm	0	0	.....	4 cs	fg.	calm	.....	0.11	2.8	fair	B. L. Goulding.
Cheyenne, Wyoming	24.16	613.7	30.16	766.1	32.3	0.2	47	n.	16	7.2	.....	0	0	.....	.....	0	0	clear	E. McGovern.
Chicago, Illinois	29.33	745.0	30.06	763.5	47.3	8.5	73	nw.	7	3.1	.....	0	hz.	.....	.....	0.01	0.3	clear	J. Mitchell.
Chincoteague, Virginia	30.10	764.5	30.12	765.0	49	9.4	86	n.	2	0.9	.....	0	0	.....	.....	0	0	clear	V. P. Temple.
Cincinnati, Ohio	29.41	747.0	30.08	764.0	54	12.2	74	se.	4	1.8	.....	0	0	.....	.....	0	0	clear	R. B. Watkins.
Cleveland, Ohio	29.24	742.7	30.00	762.0	47.6	8.7	81	sw.	6	2.7	.....	7 k	0	nw.	.....	0.02	0.5	fair	J. B. Newlin.
Coleman City, Texas	28.08	713.2	29.90	759.4	67	19.4	78	se.	8	3.6	.....	.....	10 s	.....	.....	0	0	cloudy	L. Dorman.
Columbus, Ohio	29.17	740.9	30.04	763.0	46	7.8	76	s.	5	2.2	.....	6 k	3 ks	w.	sw.	0	0	cloudy	D. Cuthbertson.
Concho, Texas	27.94	709.7	29.88	758.9	66	18.9	84	e.	4	1.8	.....	9 ck	0	s.	.....	0	0	cloudy	W. W. McConihe.
Davenport, Iowa	29.44	747.8	30.11	764.8	45	7.2	76	nw.	5	2.2	.....	2 cs	0	nw.	.....	inap.	inap.	clear	R. R. Martin.
Dayton, Washington T'y	28.65	727.7	30.40	772.1	32.3	0.2	84	e.	4	1.8	.....	0	0	.....	.....	0	0	clear	H. Clifford.
Deadwood, Dakota	25.63	651.0	30.32	770.1	32.5	0.3	100	ne.	2	0.9	.....	.....	10 n	.....	.....	0.66	16.8	light snow	G. W. Scott.
Decatur, Texas	.....	.....	.....	.....	70	21.1	48	ne.	11	4.9	.....	.....	10 s	.....	.....	0	0	cloudy	D. J. Carr.
Delaware Breakwater, Del.	30.09	764.3	30.11	764.8	46	7.8	93	w.	6	2.7	.....	0	hz.	.....	.....	0	0	clear	A. Schneider.
Denison, Texas	29.10	739.1	29.90	759.4	65.3	18.5	90	e.	5	2.2	.....	.....	10 s	.....	.....	0.12	3.0	cloudy	J. McGlone.
Denver, Colorado	24.83	630.7	30.10	764.5	48.5	9.2	71	s.	8	3.6	.....	0	0	.....	.....	0	0	clear	F. M. Neal.
Des Moines, Iowa	29.27	743.4	30.20	767.1	42	5.6	73	n.	7	3.1	.....	7 cs	0	w.	.....	0	0	fair	F. W. Conrad.
Detroit, Michigan	29.21	741.9	29.94	760.5	49.1	9.5	77	nw.	12	5.4	.....	0	0	.....	.....	0.18	4.6	clear	C. F. R. Wappenhans.
Dodge City, Kansas	27.40	695.9	30.04	763.0	46.0	7.8	100	ne.	25	11.2	.....	.....	10 n	.....	.....	0.23	5.8	light rain	E. A. Thomas.
Dubuque, Iowa	29.36	745.7	30.09	764.3	43	6.1	74	nw.	7	3.1	.....	2 k	0	nw.	.....	0	0	clear	J. Harvey Smith.
Duluth, Minnesota	29.41	747.0	30.13	765 3	38	3.3	82	nw.	2	0.9	.....	.....	10 s	.....	calm	0.17	4.3	cloudy	N. B. Conger.
Eagle Pass, Texas	29.07	738.4	29.88	758.9	73.0	22.8	82	se.	5	2.2	.....	7 cs	0	nw.	.....	0	0	fair	F. Belford.
Eagle Rock, Idaho	25.48	647.2	30.20	767.1	30	— 1.1	80	n.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. M. Clifford.
Eastport, Maine	29.85	758.2	29.92	760.0	33	0.6	94	n.	20	8.9	.....	.....	10 n	.....	n.	0.10	2.5	light snow	J. H. Melton.
El Paso, Texas	26.17	664.7	29.91	759.7	63	17.2	25	nw.	10	4.5	.....	.....	10 s	.....	w.	0	0	cloudy	J. F. Marshall.
Erie, Pennsylvania	29.17	740.9	29.92	760.0	47	8.3	86	sw.	18	8.0	.....	0	8 ks	.....	sw.	0.70	17.8	clearing	R. H. Paxton.
Escanaba, Michigan	29.34	745.2	30.02	762.5	37	2.8	89	n.	7	3.1	.....	.....	10 s	.....	n.	0.33	8.4	cloudy	C. Dill.
Florence, Arizona	28.40	721.3	29.90	759.4	57.6	14.2	38	sw.	2	0.9	.....	0	0	.....	.....	0	0	clear	R. R. Herman.
Fort Apache, Arizona	25.08	637.0	30.00	762.0	36	2.2	53	ne.	5	2.2	.....	0	0	.....	.....	0	0	clear	W. C. Barnes.
Fort Assinnaboine, Montana	27.65	702.3	30.55	776.0	34	1.1	82	nw.	6	2.7	.....	.....	10 s	.....	nw.	0.01	0.3	cloudy	B. O. Lenoir.
Fort Bennett, Dakota	28.72	729.5	30.36	771.1	39	3.9	82	n.	4	1.8	.....	0	8 s	.....	n.	0	0	cloudy	T. Gibson.
Fort Benton, Montana	27.72	704.1	30.58	776.7	35	1.7	89	n.	8	3.6	.....	.....	10 n	.....	n.	inap.	inap.	light rain	S. Wheaton.
Fort Buford, Dakota	28.28	718.3	30.35	770.9	30	2.2	82	w.	5	2.2	.....	.....	10 s	.....	calm	0	0	cloudy	A. H. Bell.
Fort Custer, Montana	27.24	691.9	30.42	772.7	35	1.7	100	nw.	6	2.7	.....	.....	10 n	.....	calm	0.06	1.5	light rain	V. Verge.
Fort Davis, Texas	25.09	637.3	29.88	758.9	55	12.8	77	n.	3	1.3	.....	8 cs	0	calm	.....	0	0	fair	J. Williams.
Fort Elliott, Texas	27.10	688.3	29.88	758.9	50	13.3	60	s.	4	1.8	.....	.....	10 s	.....	s.	0	0	cloudy	W. J. Cundall.
Fort Gibson, Indian T'y	29.34	745.2	29.92	760.0	63.5	17.5	90	se.	8	3.6	.....	.....	10 s	.....	sw.	inap.	inap.	cloudy	J. B. Campbell.
Fort Grant, Arizona	25.22	640.6	29.95	760.7	58	14.4	34	e.	4	1.8	.....	3 c	0	.....	.....	0	0	clear	T. J. Macgowan.
Fort Keogh, Montana	27.87	707.9	30.41	772.4	37	2.8	64	nw.	15	6.7	.....	9 cs	0	w.	.....	0	0	cloudy	W. B. Stockman.
Fort Macon, North Carolina	30.10	764.5	30.11	764.8	56	13.3	80	ne.	24	10.7	.....	.....	10 k	.....	ne.	0.67	17.0	cloudy	L. Leonardy.
Fort McKavett, Texas	27.68	703.1	29.94	760.5	67	19.4	76	se.	10	4.5	.....	6 ck	0	s.	.....	0	0	fair	J. E. Thatcher.
Fort Missoula, Montana	27.17	690.1	30.48	774.2	33	0.6	88	ne.	5	2.2	.....	0	0	.....	.....	0.07	1.8	clear	J. H. Jones.
Fort St. Michaels, Alaska	30.62	777.7	30.66	778.7	27	— 2.8	88	n.	3	1.3	.....	0	0	.....	.....	0	0	clear	A. P. Leavitt.
Fort Shaw, Montana	26.86	682.2	30.53	775.4	31	— 0.6	88	n.	6	2.7	.....	0	8 s	.....	.....	0.04	1.0	cloudy	A. L. Mathews.
Fort Sill, Indian Territory	28.59	726.2	29.83	757.7	65	18.3	73	se.	18	8.0	.....	0	4 ks	.....	.....	0.65	16.5	clearing	T. Cleary.
Fort Stevenson, Dakota	28.47	723.1	30.37	771.4	32	0.0	88	w.	5	2.2	.....	2 c	0	.....	.....	inap.	inap.	clear	W. Burrows
Fort Verde, Arizona	.....	.....	.....	.....	49.1	9.5	31	n.	.....	.....	1	0	0	.....	.....	0	0	clear	D. Brooks.
Fort Washakie, Wyoming	24.71	627.6	.....	.....	32.7	0.4	75	se.	12	5.4	.....	.....	10 s	.....	.....	0	0	cloudy	T. M. Ambler.
Fredericksburg, Texas	28.17	715.5	29.89	759.2	65	18.3	90	s.	4	1.8	.....	7 cs	0	s.	.....	0	0	fair	H. S. Miles.
Galveston, Texas	29.92	760.0	29.96	761.0	75	23.9	90	s.	12	5.4	.....	.....	10 k	.....	sw.	0	0	threatening	E. O'C. MacInernev.
Grand Haven, Michigan	29.30	744.2	29.99	761.7	44.5	6.9	83	w.	6	2.7	.....	5 k	0	nw.	.....	0.03	0.8	fair	W. A. Reid.
Hatteras, North Carolina	30.11	764.8	30.13	765.3	52	11.1	80	ne.	24	10.7	.....	7 c	hz.	ne.	.....	0.10	2.5	fair	R. M. Crawford.
Helena, Montana	26.21	665.7	30.47	773.9	34	1.1	72	w.	3	1.3	.....	10 k	0	.....	.....	0.05	1.3	cloudy	N. C. Smith.
Henrietta, Texas	28.90	734.0	29.93	760.2	70.0	21.1	76	n.	8	3.6	.....	.....	10 s	.....	.....	0.21	5.3	cloudy	J. W. Byram.
Huron, Dakota	28 92	734.6	30.37	771.4	34	1.1	85	nw.	7	3.1	.....	2 k	5 s	nw.	nw.	0	0	fair	S. W. Glenn.
Indianapolis, Indiana	29.22	742.2	30.04	763.0	56	13.3	57	n.	4	1.8	.....	0	hz.	.....	calm	0	0	clear	O. Schutze
Indianola, Texas	29.90	759.4	29.93	760.2	74.6	23.7	97	s.	9	4.0	.....	2 cs	2 ks	w.	s.	0	0	fair	I. A. Reed.
Jacksboro, Texas	28.70	729.0	29.88	758.9	64	17.8	93	se.	10	4.5	.....	4 c	5 s	w.	.....	0.23	5.8	cloudy	J. P. Sherry.
Jacksonville, Florida	29.99	761.7	30.03	762.7	71	21.7	76	w.	3	1.3	.....	5 cs	0	w.	.....	inap	inap.	fair	J. W. Smith.
Keokuk, Iowa	29.42	747.3	30.09	764.3	50.5	10.3	62	calm	0	0	.....	1 k	0	w.	.....	0	0	clear	F. Z. Gosewisch
Key West, Florida	30.04	763.0	30.06	763.5	78.0	25.6	64	e.	3	1.3	.....	1 cs	2 k	.....	e.	0	0	clear	L. M. Melbourne.
Kittyhawk, North Carolina	30.15	765.8	30.17	766.3	49	9.4	86	e.	7	3.1	.....	3 c	0	.....	.....	inap.	inap.	clear	E. A. Beals.
Knoxville, Tennessee	29.08	738.6	30.12	765.0	53.3	11.8	70	ne.	4	1.8	.....	6 ck	0	w.	.....	inap.	inap.	fair	J. A. Cody.
La Crosse, Wisconsin	29.30	744.2	30.10	764.5	43.5	6.4	68	n.	12	5.4	.....	.....	10 s	.....	n.	0	0	cloudy	S. C. Emery.
La Mesilla, New Mexico	26.05	661.7	29.93	760.2	52.0	11.1	43	calm	0	0	.....	5 c	3 s	.....	.....	0	0	cloudy	N. D. Lane.
Leavenworth, Kansas	29.24	742.7	30.15	765.8	53	11.7	61	n.	6	2.7	.....	.....	10 s	.....	w.	0	0	cloudy	A. W. Browne.
Lewiston, Idaho	29.64	752.8	30.49	774.4	36.6	2.6	77	ne.	1	0.4	.....	0	0	.....	.....	0	0	clear	W. Blake.
Little Rock, Arkansas	29.66	753.4	29.98	761.5	63	17.2	90	nw.	6	2.7	.....	.....	10 n	.....	nw.	0.21	5.3	thnd'r str'm	W. U. Simmons.
Los Angeles, California	29.62	752.3	30.02	762.5	46.0	7.8	68	nw.	1	0.4	.....	0	0	.....	.....	0	0	clear	E. F. Kubel.
Louisville, Kentucky	29.49	749.0	30.06	763.5	54	12.2	74	se.	3	1.3	.....	0	sk.	.....	.....	0	0	clear	H. C. Smyth.
Lynchburg, Virginia	29.44	747.8	30.16	766.1	53.0	11.7	66	calm	0	0	.....	0	fg.	.....	.....	0.03	0.8	clear	W. R. Bushby.
Madison, Wisconsin	29.03	737.3	30.07	763.8	43	6.1	83	nw.	12	5.4	.....	.....	10 s	.....	nw.	inap.	inap.	cloudy	C. A. Shaw.
Marquette, Michigan	29.29	744.0	30.04	763.0	39	3.9	73	nw.	7	3.1	.....	1 c	0	nw.	.....	0.16	4.1	clear	J. Gilligan.
Mason, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	P. M. Wilson.
Memphis, Tennessee	29.63	752.6	29.97	761.2	60	15.6	65	ne.	6	2.7	.....	.....	10 s	.....	.....	0.06	1.5	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	29.26	743.2	30.03	762.7	45	7.2	60	nw.	13	5.8	.....	.....	10 s	.....	nw.	inap.	inap.	cloudy	W. Line.
Mobile, Alabama	30.01	762.2	30.05	763.3	68	20.0	90	se.	3	1.3	.....	5 cs	3 ks	w.	.....	0.14	3.6	cloudy	J. D. Paxton.

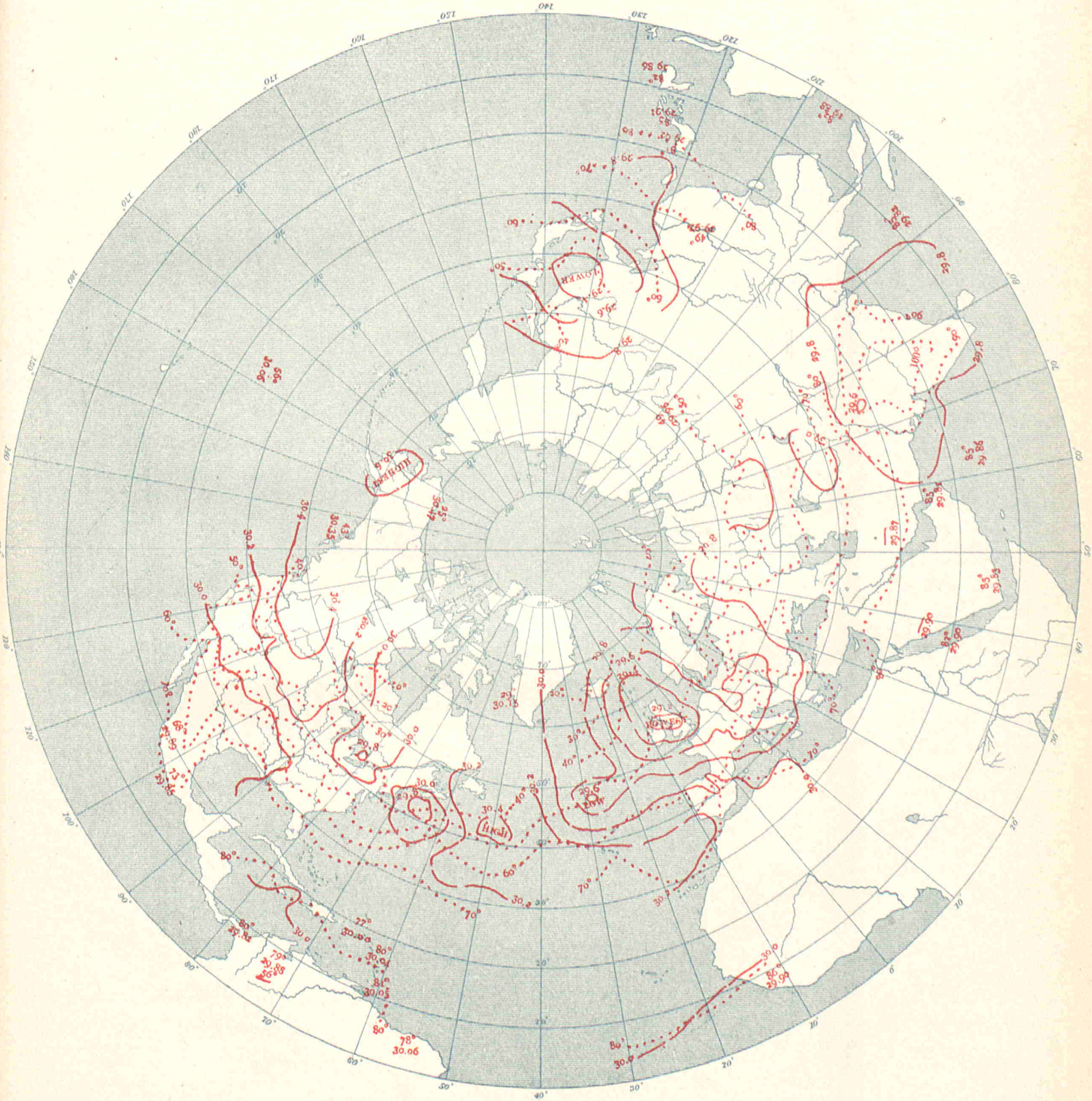
STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Montgomery, Alabama	29.82	757.4	30.05	763.3	62.7	17.1	88	n.	2	0.9		7c;hz	0			0.26	6.6	fair	J. B. McLaughlin.
Moorhead, Minnesota	29.23	742.4	30.26	768.6	35.1	1.7	79	n.	12	5.4		0	0			0.01	0.3	clear	H. Bessant.
Morgantown, W. Virginia	29.07	713.0	30.11	739.4	48.5	9.2	89	calm	0	0		0	fg.			0	0	clear	G. C. Lewis.
Mt. Washington, N. H.	23.60	599.4	30.01	762.2	19.0	— 7.2	82	ne.	10	4.5			10n;fg		ne.	0.39	9.9	light snow.	J. G. Linsley.
Nashville, Tennessee	29.54	750.3	30.08	764.0	54.0	12.2	70	ne.	1	0.4		7 cs	hz.	sw.		0	0	fair	L. A. Jesunofsky.
New Haven, Connecticut	29.95	760.7	30.07	763.8	40	4.4	73	n.	7	3.1		0	4 s		n.	0.10	2.5	fair	J. H. Sherman.
New London, Connecticut	30.02	762.5	30.06	763.5	40	4.4	73	n.	4	1.8			10 s		calm	0.20	5.1	cloudy	J. G. Lynch.
New Orleans, Louisiana	29.94	760.5	30.00	762.0	72.5	22.5	84	calm	0	0		10 c	sk.	w.		0	0	cloudy	S. Dunne.
Newport, Rhode Island	29.98	761.5	30.03	762.7	39.0	3.9	82	nw	10	4.5			10 s		n.	0.65	16.5	cloudy	W. McGillivray.
New River, N. Carolina					57	13.9	64	ne.			4		10 s		e.	0.37	9.4	cloudy	C. C. Corbin.
New Shoreham, Rhode I'd.	30.02	762.5	30.05	763.3	39.2	4.0	89	n.	12	5 4			10 s		n.	1.41	35.8	cloudy	W. Davis.
New York, New York	29.91	759.7	30.09	764.3	43	6.1	74	ne.	2	0.9			10 s			inap.	inap.	cloudy	E. B. Garriott.
Norfolk, Virginia	30.11	764.8	30.14	765.5	54	12.2	80	e.	1	0.4		0	hz.			0.08	2.0	clear	J. T. Elker.
North Platte, Nebraska	27.29	693.2	30.25	768.3	46.6	8.1	59	ne.	14	6.3			10 s			0	0	cloudy	E. F. Brady.
Olympia, Washington T'y	30.35	770.9	30.39	771.9	34.5	1.4	89	ne.	1	0.4		0	0			0	0	clear	J. Dascomb.
Omaha, Nebraska	29.05	737.9	30.26	768.6	45.0	7.2	71	n.	10	4.5			10 s		n.	inap.	inap.	cloudy	A. Pollak.
Ooglaamie, Pt. Barrow, Alas.	30.46	773.7	30.47	773.9	24.6	— 4.1	96	sw.	14	6.3		hz.	1 s			0	0	clear	P. H. Ray.
Oswego, New York	29.61	752.1	29.95	760.7	47.0	8.3	68	se.	11	4.9			10 s		w.	0.05	1.3	cloudy	S. W. Beall.
Palestine, Texas	29.40	746.7	29.96	761.0	69.5	20.8	90	s.	12	5.4			10 ks		sw.	0.01	0.3	cloudy	L. M. Pindell.
Pensacola, Florida	30.00	762.0	30.03	762.7	67.4	19.7	93	ne.	3	1.3		10 cs	0	w.		1.36	34.5	cloudy	M. McGauran.
Philadelphia, Pa	29.99	761.7	30.09	764.3	48	8.9	77	nw.	4	1.8		0	0			inap.	inap.	clear	T. F. Townsend.
Pike's Peak, Colorado	17.80	452.1	30.08	764.0	15	— 9.4	87	sw.	20	8.9		0	4 s		w.	0.10	2.5	fair	L. M. Dey.
Pioche, Nevada	24.15	613.4	30.14	765.5	43.3	6.3	58	nw.	8	3.6		0	0			0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.20	741.7	30.03	762.7	48.9	9.4	71	s.	16	7.2		9 k	0	w.		0	0	cloudy	J. H. Bryce.
Port Eads, Louisiana	30.04	763 0	30.05	763.3	72.5	22.5	97	sw.	1	0.4		0	fg.			0	0	clear	H. G. Christian.
Port Huron, Michigan	29.19	741.4	29.89	759.2	46.8	8.2	82	w.	13	5.8		0	0			0.06	1.5	clear	W. O. Bailey.
Portland, Maine	29.92	760.0	29.97	761.2	37.0	2.8	82	n.	16	7.2			10 n		n.	0.24	6.1	light snow.	D. C. Murphy.
Portland, Oregon	30.23	767.8	30.30	769.6	44.0	6.7	76	nw.	10	4.5		0	0			0	0	clear	M. L. Hearne.
Portsmouth, N. Carolina					54	12.2	67	ne.	28	12.5		6 c	0	n.		0.81	20.6	fair	F. P. Chaffee.
Prescott, Arizona	24.80	629.9	30.02	762.5	42	5.6	63	s.	4	1.8		0	0			0	0	clear	J. McN. Wright.
Provincetown, Mass.	29.94	760.5	29.95	761.0	37	2.8	89	ne.	20	8.9			10 s		ne.	1.92	48.8	cloudy	P. T. Jenkins.
Punta Rassa, Florida	30.02	762.5	30.03	762.7	75.5	24.2	68	e.	6	2.7		6 c	1 k	calm	calm	0	0	fair	W. J. Evans.
Red Bluff, California	29.68	753.9	30.05	763.3	55.2	12.9	72	nw.	5	2.2		0	0			0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.61	752.1	29.85	758.2	75	23.9	76	se.	8	3.6		5 c	0	se.		0	0	fair	W. H. Taylor.
Rochester, New York	29.25	742.9	29.94	760.5	40	4.4	82	ne.	5	2.2			10n;fg			0.19	4.8	light rain	A. T. Sherwood.
Roseburg, Oregon	29.67	753.6	30.23	767.8	42.7	5.9	90	calm	0	0			0			0	0	clear	J. J. Nanry.
Sacramento, California	29.94	760.5	30.02	762.5	56.8	13.8	86	n.	2	0.9		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.47	748.5	30.08	764.0	58.0	14.4	70	se.	3	1.3		7 c	0	sw.		0	0	fair	J. H. Webber.
St. Paul, Minnesota	29.26	743.2	30.15	765.8	43.0	6.1	74	nw.	9	4.0			10 ks		nw.	0	0	cloudy	P. F. Lyons.
St. Vincent, Minnesota	29.39	746.5	30.30	769.6	32	0.0	78	nw.	13	5.8		0	0			0.02	0.5	clear	G. Kingsbury.
Salt Lake City, Utah	25.82	655.8	30.19	766.8	45	7.2	60	ne.	3	1.3		0	0			0	0	clear	J. Craig.
San Antonio, Texas	29.21	741.9	29.91	759.7	70.3	21.3	90	calm	0	0		1 cs	6 k; s		s; calm	0	0	fair	E. Lane.
San Diego, California	29.89	759.2	29.96	761.0	56.7	13.7	91	ne.	4	1.8			fg.			0	0	dense fog	A. C. Dobbins.
Sandusky, Ohio	29.27	743.4	29.97	761.2	50.1	10.1	77	sw.	6	2.7		0	5 k		w.	0	0	fair	M. H. Perry.
Sandy Hook, New Jersey	30.06	763.5	30.10	764.5	45.0	7.2	76	n.	3	1.3			10 ks		n.	0.04	1.0	cloudy	B. A. Blundon.
San Francisco, California	29.97	761.2	30.04	763.0	53	11.7	90	calm	0	0			fg.			0	0	clear	N. Gorom.
Santa Fé, New Mexico	23.24	590.3	30.00	762.0	48	8.9	22	nw.	5	2.2		0	0			0	0	clear	H. U. Jones.
Savannah, Georgia	29.92	760.0	30.01	762.2	68	20.0	76	w.	3	1.3		0	0			0.06	1.5	clear	H. W. Ford.
Shreveport, Louisiana	29.70	754.4	29.94	760.5	71	21.7	94	e.	4	1.8		7 cs	2 s		e.	0.01	0.3	cloudy	E. N. Meekins.
Silver City, New Mexico	24.25	615.9	29.93	760.2	47	8.3	35	w.	6	2.7		0	0			0	0	clear	J. B. Wallace.
Sitka, Alaska	30.46	773.7	30.53	775.4	43.2	6.2	41	calm	0	0		5 c	0	nw.		0	0	fair	J. J. McLean.
Smithville, North Carolina	30.05	763.3	30.09	764.3	59	15.0	70	e.	19	8.5			10 s		e.	0.07	1.8	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	28.44	722.4	30.50	774.7	36	2.2	85	ne.	1	0.4		0	0			0.01	0.3	clear	D. Moore.
Springfield, Illinois	29.41	747.0	30.11	764.8	55	12.8	49	n.	9	4.0		0	1 s		w.	0	0	clear	T. B. Jennings.
Springfield, Massachusetts	29.93	760.2	30.06	763.5	41.0	5.0	73	n.	4	1.8		10 k	0	n.		0.18	4.6	cloudy	T. S. Outram.
Springfield, Mo.	28.57	725.7	30.09	764.3	60	15.6	62	s.	8	3.6			10 s		s.	0	0	cloudy	J. B. Marbury.
Stockton, Texas	26.85	682.0	29.88	758.9	65.2	18.4	70	sw.	8	3.6		10 cs	0	sw.		0	0	cloudy	J. O'Dowd.
Thatcher's Island, Mass.	29.94	760.5	29.98	761.5	36.5	2.5	89	ne.	23	10.3			10 s		ne.	1.31	33.3	cloudy	G. Liebmann.
Toledo, Ohio	29.26	743.2	29.97	761.2	51	10.6	80	w.	7	3.1		0	6 s		sw.	0.09	2.3	fair	A. Buell.
Tucson, Arizona	27.50	698.5	29.89	759.2	54	12.2	51	s.	3	1.3		0	0			0	0	clear	J. L. Whiteside.
Umatilla, Oregon	30.12	765.0	30.49	774.4	35	1.7	79	se.	1	0.4		0	0			0	0	clear	J. Daly.
Uvalde, Texas	28.92	734.6	29.89	759.2	70	21.1	90	se.	4	1.8			10 ks		s.	0	0	cloudy	E. C. Imlay.
Vicksburg, Mississippi	29.73	755.1	29.99	761.7	68	20.0	84	se.	2	0.9		6 cs	0	calm		0.01	0.3	fair	T. J. Kenan.
Visalia, California																			J. T. Cochran.
Washington, D. C.	30.01	762.2	30.13	765.3	47.2	8.4	85	calm	0	0		0	sk.			c	0	clear	B. M. Purssell.
West Las Animas, Colorado	26.19	665.2	30.15	765.8	48	8.9	66	ne.	11	4.9		0	9 s		ne.	0	0	cloudy	J. Grover.
Wickenburg, Arizona					53	11.7	63	calm			0	0	0			0	0	clear	H. A. Kremp.
Williamsport, Pa.	29.43	747.5	30.04	763.0	38	3.3	89	nw.	4	1.8			fg.			0.02	0.5	dense fog	B. F. Hough.
Wilmington, N. Carolina	30.05	763.3	30.11	764.8	59	15.0	60	e.	12	5.4			10 k		e.	0.25	6.3	cloudy	E. W. McCann.
Winnemucca, Nevada	25.77	654.5	30.17	766.3	42	5.6	68	ne.	10	4.5		0	0			0	0	clear	J. R. Williams.
Yankton, Dakota	28.97	735.8	30.31	769.9	40	4.4	73	nw.	3	1.3		10 ck	0	n.		0	0	cloudy	J. H. Atfield.
Yuma, Arizona	29.67	753.6	29.82	757.4	61.5	16.4	57	n.	2	0.9		0	0			0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.01	559.0			55.5	13.1	94	calm	0	0		2 k	8 s	n.		0	0	cloudy	Joaquin Gomez.
Bridgetown, Barbados, W.I.	30.04	763.0	30.05	763.3	81	27.2	87	e.				5 k	5 ks	ne.	ne.	0	0	fair	J. A. Racker.
Buenaventura, U. S. C.																			J. I. Plume.
Guadeloupe, W. I.	29.92	760.0	29.94	760.5	80	26.7	70	se.				5 k	2 ks			0	0		B. Bigar.
Havana, Cuba, W. I.	30.01	762.2	30.05	763.3	76	24.4	76	se.	2.4	1.1		1 cs	0		calm	0	0	clear	A. Van Caneghem.
Kingston, Jamaica, W. I.	29.98	761.5	29.99	761.7	80.3	26.8	74	calm	0	0		4c;cs	0	w.		0	0	fair	Robert Johnston.
Nassau, W. I.																			F. M. Everett.
Paramaribo, S. A.	30.06	763.5	30.06	763.5	78	25.6	82	e.			2		10 n	e.		0.550	14.0	rainy	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.42	747.3	29.88	758.9	79	26.1	80	calm			0		10 s		calm	0.04	1.0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.							93	ne.			1	0	0			0	0	clear	Earl Flint.
Santiago de Cuba, W. I.	29.96	761.0	29.99	761.7	76	24.4	76	n.	4.8	2.1		0	0			0.05	1.3	clear	Robert Mason.
York Factory, B. A.	29.89	759.2	29.95	760.7	9.0	—12.8	89	n.	12	5.4		1 c	0	n.		0	0	fair	W. Wood.

STATIONS AND VESSELS.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mil.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
British Naval.																		
H. M. S. Alert, S. 9° 29′, E. 50° 58′	29.92	760.0	78.8	26.0	92	se.			3–5		7							showery.
H. M. S. Alexandra, Malta, Mediterranean	29.92	760.0	65	18.3	63	w.			3–6		4	wsw.						squally.
H. M. S. Amethyst, N. 44° 02′, W. 9° 26′	29.97	761.2	54	12.2	86	w.			3		6	wsw.						d. clouds.
H. M. S. Bacchante, Beirut Bay, Palestine	29.98	761.5	79	26.1	73	n.			1		0					4	wnw.	blue sky.
H. M. S. Champion, S. 20° 10′ W. 82° 10′			67	19.4	94	ese.			3		10	se.				4	se.	d. clouds.
H. M. S. Cleopatra, N. 6° 30′ E. 90° 57′	29.82	757.4	84.5	29.2	96	sse.			1–2		3	calm				2	s.	d. clouds.
H. M. S. Comus, N. 5° 05′ E. 124° 45′	29.86	758.4	82	27.8	95	w.			1		1							blue sky.
H. M. S. Dido, N. 18° 26′, W. 66° 00′	30.05	763.3	78	25.6		e.			1		3	ene.						misty.
H. M. S. Dryad, N. 28° 59′ E. 50° 50′	29.77	756.1				nnw.			4		0					3	nnw.	blue sky.
H. M. S. Dwarf, S. 32° 18′, W. 58° 25′	29.99	761.7	62	16.7	94	nne.			1		5					1		d. clouds.
H. M. S. Fantome, N. 20° 04′, W. 73° 37′	30.01	762.2	80	26.7		ne.			3–4		5	ne.				2	ne.	d. clouds.
H. M. S. Fawn, N. 12° 45′ E. 45° 00′	29.83	757.7	84.5	29.2	77	sse.			2		3	ene.						d. clouds.
H. M. S. Garnet, Galonia, Uruguay	30.00	762.0	56.5	13.6	87	n.			1		10							misty.
H. M. S. Garnet, Galonia, Uruguay	29.98	761.5	65	18.3	78	nnw.			2		7							misty.
H. M. S. Inconstant, Simon's Bay, Cape Colony	29.98	761.5	64	17.8	94	wnw.			2–3		10	wnw.				1	nw.	squally.
H. M. S. Iron Duke, N. 22° 22′, E. 121° 30′	29.77	756.1	78	25.6	95	nnw.			3–4		7	n.				3	nnw.	d. clouds.
H. M. S. Lark, S. 8° 58′, E. 160° 50′	29.87	758.7	83.3	28.5		ene.			1		4					1	se.	d. clouds.
H. M. S. Magpie, N. 34° 59 , E. 139° 50′	29.42	747.3	62.3	16.8	90	nw.			1		10					1	nw.	misty.
H. M. S. Malabar, N. 36° 35′, W. 3° 21′	30.06	763.5	64	17.8	89	wsw.			2–3		2	wsw.				2	wsw.	d. clouds.
H. M. S. Nelson, Sydney, N. S. Wales	29.71	754.6	67	19.4	84	calm			0		1							blue sky.
H. M. S. Northampton, Bermuda, W. I.	30.05	763.3	71	21.7	85	ne.			2		4	ese.						d. clouds.
H. M. S. Orontes, N. 32° 18′ W. 48° 40′	30.17	766.3	67.5	19.7	96	ssw.			2		10					3	ssw.	overcast.
H. M. S. Pegasus, N. 1° 17′, E. 103° 52′	29.88	758.9	82	27.8	95	wnw.			1		5							d. clouds.
H. M. S. Rambler, Elephant Bay, Benguela	29.86	758.4	79	26.1	95	nw.			2		1							blue sky.
H. M. S. Rocket, Esquimalt, Vancouver Id., B. C.	30.46	773.7	37	2.8		calm			0		1							blue sky.
H. M. S. Serapis, N. 15° 11′ E. 42° 00	29.88	758.9	83	28.3	67	nnw.			1		1	nw.						blue sky.
H. M. S. Tenedos, N. 41° 00′ W. 64° 00′	29.72	754.9	47	8.3	92	wsw.			3		9					6	sw.	misty.
H. M. S. Triumph, Coquimbo, Chili	29.93	760.2	56	13.3	93	calm			0		10	calm						foggy.
H. M. S. Tyne, N. 18° 47′, E. 39° 33′	29.50	759.4	82	27.8	100	nnw.			2–3		0					2	nnw.	blue sky.
H. M. S. Woodlark, Muscat, Arabia	29.81	757.2	84.5	29.2	58	nw.			3–4		0					3	nw.	misty.
Portuguese Naval.																		
Rio Lima, Bulama, Senigambia	30.00	762.0	77.0	25.0	87	nne.			3		4		n.			3	nne.	d. clouds.
Tamega, Macon, China	29.86	758.5	80.6	27.0	86	sw.			6		10			2 h'r	2 h'r	4	sw.	d. clouds.
Swedish Naval.																		
Balder, N. 42° 25′ W. 40° 35′	30.27	768.9	50.0	10.0	79	nnw.			4		7							misty.
United States Naval.																		
Navy Yard, Pensacola, Fla	29.98	761.5	70	21.1	85	nne.	8	3.6			5		ne.	2.52	64.0			fair.
Navy Yard, Portsmouth, N. H.	30.01	762.2	36	2.2	90	ne.	7	3.1			10		ne.	1.1	28.			cloudy.
Naval Hospital, Yokohama, Japan	29.26	743.2	61	16.1	91	calm			0		8		nw.	1.74	44.2			clearing.
Adams, N. 21° 19′, W. 107° 19′	29.64	752.8	74	23.3	90	wnw.			0–1		2			0	0	sm'h		clear.
Alaska, Panama, Panama	29.82	757.4	80	26.7	87	nnw.			1		5		n.	0	0	sm'h		cloudy.
Alert, Kobe, Japan*	29.44	747.8	64	17.8	83	w.			1		2		w.	0	0	sm'h		hazy.
Alliance, N. 32° 35′, W. 77° 05′	30.02	762.5	72	22.2	90	se.			2		10			h'vy	h'vy	sm'h		thnd'rstorm.
Ashuelot, Kobe, Japan	29.54	750.3	62	16.7	88	w.			3		2		wnw.					fair.
Brooklyn, Montevideo, Uruguay	29.96	761.0	62	16.7	94	n.	6	2.7			2		calm	0.21	5.3	sm'h		clear.
Colorado, New York, N. Y.	30.00	762.7	43	6.1	83	calm	0	0			10		calm	Inap.	Inap.			overcast.
Enterprise, N. 35° 25′, W. 74° 28′*	30.04	763.0	58	14.4	88	nne.			6		8		nne.			mod.	nne.	squally.
Essex, S. 20° 59′ W. 36° 44′	30.17	766.3	78	25.6	82	ese.			6		5		se.			long	se.	fair.
Franklin, Norfolk, Va.	30.15	765.8	53	11.7	86	s.	2	0.9			2		calm	0.08	2.0			clear.
Galena, Villafranca, France	29.56	750.8	66	18.9	64	e.			2		2		e.			sm'h		fair.
Independence, Navy Yard, Mare Island, Cal	29.91	759.7	55	12.8	80	sw.			1		0			0	0			clear.
Iroquois, Mare Island, Cal	29.92	760.0	58	14.4	76	calm			0		0							clear.
Kearsarge, Hampton Roads, Va	30.26	768.6	54	12.2	?	calm			0		2					sm'h		clear.
Lackawanna, Cosma, Peru*†	30.00	762.0	62	16.7	94	calm			0		5		sw.					hazy.
Lancaster, Villafranca, France*	29.56	750.8	68	20.0	56	calm			0		8		calm	0	0	sm'h	s.	fair.
Marion, S. 21° 18′, W. 15° 51′	30.22	767.6	74	23.3	90	e.			4		8		e.	light	light	mod.	ese.	squally.
Michigan, Erie, Pa	29.89	759.2	46	7.8	100	sw.			3		10		sw.					raining.
Minnesota, Newport, R. I.	30.03	762.7	41	5.0	82	n.	7	3.1			10		n.					overcast.
Monocacy, Kobe, Japan	29.57	751.1	62	16.7	94	wnw.			2		2		calm					fair.
New Hampshire, Newport, R. I.	29.92	760.0	39	3.9	82	n.			3		10					sm'h		cloudy.
Nipsic, Villafranca, France	29.57	751.1	67	19.4	55	sse.			1		8					sm'h		fair.
Onward, Callao, Peru†	30.05	763.3	60	15.6	94	calm			0		10		n.			long	v	cloudy.
Palos, Kobe, Japan	29.59	751.6	64	17.8	83	w.			2		2		e.					fair.
Passaic, Washington, D. C.	30.13	765.3	49	9.4	93	w.			1		0							clear.
Pensacola, Callao, Peru	30.00	762.0	61	16.1	100	calm	0	0			10		s.	0	0	sm'h		cloudy.
Powhatan, Key West, Florida	30.05	763.3	80	26.7	78	sse.			1		2							clear.
Portsmouth, N. 44° 22′, W. 34° 45′	30.06	763.5	53	11.7	80	wnw.			6		8		n.			mod	n.	cloudy.
Quinnebaug, Villafranca, France	29.54	750.3	62	16.7	72	ese.			2		2		calm			sm'h		clear.
Ranger, Altata, Mexico*	29.80	756.9	65	18.3	84	e.			2		5		e.	0	0	sm'h		foggy.
Richmond, Kobe, Japan*	29.67	753.6	66	18.9	89	w.			1		0			0.43	10.9			clear.
Saratoga, N. 44° 58′, W. 33° 21′	29.92	760.0	51	10.6	65	n.			7		8		n.	light	light	long	sw.	cloudy.
Shenandoah, N. 39° 05′ W. 74° 15′*	30.16	766.1	48	8.9	85	n.			3		8		n.			long	nne.	fair.
St. Louis, League Island, Pa	30.32	770.1	47	8.3	92	calm	0	0			0			0	0			clear.
Swatara, Chefoo, China*	29.55	750.6	56	13.3	81	se.			2		2		sw.			sm'h		fair.
Tennessee, Fort Monroe, Va	30.16	766.1	55	12.8	100	se.	2	0.9			0			very	light.			misty.
Vandalia, Hampton Roads, Va†	30.34	770.6	59	15.0	94	calm			0		0							clear.
Wabash, Boston, Mass.	29.99	761.7	40	4.4	91	n.	5	2.2			10		nw.	0.15	3.8			cloudy.
Wachusetts, Sitka, Alaska	30.40	772.1	38	3.3	100	calm			0		0					sm'h		clear.
Wyoming, Port Royal, S. C.	30.02	762.5	68	20.0	90	nnw.	6	2.7			2			0	0			clear.
Yantic, Fort Monroe, Va*†	30.35	770.9	54	12.2	93	calm			0		10							overcast.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.			Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Amount and kind.		Direction.						
								Force.	Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																	
S. S. Circassian, N. 51° 10′, W. 29° 45′	30.05	763.3	47	8.3	69	nne.			5		10	ese.			3	ne.	showery.
S. S. Polynesian, N. 42° 57′, W. 50° 00′*	30.23	767.8	33	0.6		e.			1		7	se.	2 h'r	2 h'r	sm'h		fair.
S. S. Scandinavian, N. 43° 26′, W. 44° 58′ *	30.24	768.1	45	7.2		nnw.			3		4	nnw.	12 h'r	12 h'r	con.	nnw.	d. clouds.
S. S. Waldensian, Glasgow, Scotland*	29.27	743.4	38	3.3		ne.			4		2?	ne.	o	o			cloudy.†
AMERICAN STEAMSHIP COMPANY.																	
S. S. British Crown, Liverpool, Eng.†	29.36	745.7	48	8.9		se.			5		7?	s.	o	o			overcast.
S. S. Illinois, Liverpool, England	29.05	737.9	53	11.7	93	wnw.			4		10	w.					overcast.
S. S. Indiana, N. 43° 46′, W. 41° 00′ †	30.40	772.1	58	14.4	53	n.			5		2	ne.	o	o	mod.	ene.	fair.
S. S. Ohio, N. 49° 15′ W. 19° 10′†	29.67	753.6	50	10.0	93	nw.			6		3	nw.			r'gh	nw.	squally.
S. S. Pennsylvania, N. 39° 19′, W. 69° 54′†	30.00	762.0	44	6.7	84	nw.			4			nw.			sm'h	nw.	showery.
ANCHOR LINE.																	
S. S. Bolivia, N. 46° 08′, W. 39° 21′†	30.10	764.5	49	9.4		wnw			4		4	nne.	12 h'r	12 h'r	light	nw.	fair.
S. S. Ethiopia, N. 45° 50′, W. 41° 30′	30.29	769.4	47	8.3	85	nnw.			4		4	nnw.	1 h'r	1 h r	mod.	nnw.	clear
S. S. Galatia, N. 44° 52′, W. 43° 30′ †	30.34	770.6				nne.			4		5	ne.	4 h'r	4 h'r	sm'h	nw.	fine.
S. S. India, N. 15° 28′, E. 60° 07′*	29.86	758.4	85	29.4	87	n.			1		0					sw.	clear.
ATLAS LINE.																	
S. S. Ailsa, N. 10° 50′, W. 75° 20′†	29.90	759.4	80	26.7	78	ne.			2		2	ne.	o	o	sm'h		fine.
S. S. Alvo, Colon, U. S. C.	29.91	759.7	106	41.1		une.			6		10	nne.	5 h'r	5 h'r			cloudy.
S. S. Athos, N. 25° 46′, W. 74° 20′	29.77	756.1				se.			2		3	se.	o	o		se.	clear.
S. S. Claribel, N. 18° 11′. W. 73° 46′*†	30.12	765.0	82	27.8	83	calm			0		5	calm	o	o	sm'h		fine.
BRITISH METEOROLOGICAL OFFICE.																	
Bk. Arran, S. 25° 30′ W. 30° 09′	30.30	769.6	69	20.6	97	ese.			6		10						raining.
British Merchant, S. 26° 16′, E. 54° 43′	30.09	764.3	79.8	26.6	70	wsw.			0–1		2						d. clouds.
Glencairn, S. 12° 00′, E. 88° 26′	29.89	759.2	79	26.1	86	se.			5		5						d. clouds.
Bk. Julia H., N. 27° 06′, W. 75° 13′	30.07	763.8	73	22.8	72	sse.			2		1						blue sky.
Minho, Vigo, Spain	30.12	765.0	60	15.6	97	sw.			3–5		10						drizzling.
CROMWELL LINE.																	
S. S. Hudson, N. 27° 45′, W. 87° 39′†	30.07	763.8	76	24.4		nw.			1		2	w.	o	o	mod.	se.	fair.
CUNARD LINE.																	
S. S. Gallia, N. 44° 12′, W. 45° 32′	30.37	771.4	44	6.7	84	n.			5		8	nw.	o	o	sm'h		fair.
S. S. Scythia, N. 51° 45′, W. 7° 56′	29.45	748.0	56	13.3	87	wnw.			6		5	wnw.	7 h'r	7 h'r	r'gh	ese.	
GENERAL TRANS-ATLANTIC COMPANY																	
S. S. Canada, N. 45° 00′, W. 40° 56′	30.26	768.6	50.0	10.0		nnw.			3		5	n.	3 h'r	3 h'r	sm'h	wnw.	
S. S. St. Germain, N. 49° 07′, W. 18° 29′			51.8	11.0		w.			3			w.	o	o		wnw.	very clear.
GUION LINE.																	
S. S. Arizona, N. 42° 40′, W. 47° 41′	30.43	772.9	38	3.3		ne.			3		7	nw.	3 h'r	3 h'r	sm'h		fine.
S. S. Wisconsin, St. George's Channel, Eng.*†	29.40	746.7	48	8.9	?	wnw.			7		5	nw.	o	o	r'gh	nw.	fair.
HAMBURG AMERICAN PACKET COMPANY.																	
S. S. Bohemia, N. 48° 55′, W. 18° 40′*†	29.80	756.9				w.			5		6	sw.	light	light	h'vy	w.	fair.
S. S. Cimbria, N. 48° 56′, W. 22° 37′	29.73	755.1				ene.			3		10	ese.	4 h'r	4 h'r	mod.	w.	raining.
S. S. Gellert, N. 40° 20′, W. 69° 30′	29.99	761.7	48	8.9		nw.			6		10	nw.	2 h'r	2 h'r	long	nw.	fair.
S. S. Lessing, Hamburg, Germany	29.58	751.3	59	15.0		n.			3		10	nne.	o	o			cloudy.
S. S. Silesia, N. 47° 42′, W. 27° 29′†	29.66	753.4	46.4	8.0		ese.			6		10		16 h'r	16 h'r	4	se.	drizzling.
S. S. Wieland, N. 45° 02′, W 36° 18′	30.13	765.3	54	12.2		wnw.			5–6		5	wnw.	9 h'r	9 h'r	5	wnw.	fair.
INMAN LINE.																	
S. S. City of New York, N. 43° 58′ W. 42° 46′	30.33	770.4				nne.			4		8	ne.	o	o	mod.	ene.	cloudy.
LAMPERT AND HOLT'S LINE.																	
S. S. Hevelius, S. 24° —′, W. 41° —′*†	30.41	772.4	78	25.6		se.			5		4	ese.	o	o	high	se.	clear.
MAILORY LINE.																	
S. S. Colorado, New York, N. Y.†	30.03	762.7	40	4.4		nnw.			2		10	n.	o	o			cloudy.
MERCHANTS' EXPRESS LINE.																	
S. S. Freja, N. 40° 53′, W. 52° 14′†	30.41	772.4	52	11.1	86	sse;n.			3		5	s.	o	o	sm'h		
MERCHANT STEAMSHIP COMPANY.																	
S. S. Glenapp, N. 17° 06′, W. 57° 19′	30.04	763.0				sse.			4		6	e.	o	o	mod.	e.	fine.
NATIONAL LINE.																	
S. S. Denmark, N. 48° 10′. W. 24° 18′	29.86	758.4	55	12.8		sse.			4		10	sw.	7 h'r	7 h'r	slight	w.	raining.
S. S. England, N. 41° 12′, W. 50° 39′	30.33	770.4				nne.			3		8		3 h'r	3 h'r	mod.	n.	cloudy.
S. S. Erin, N. 50° 24′ W. 2° 16′	29.27	743.4	49	9.4		wnw.			9		5	w.	2 h'r	2 h'r	con.	w.	showery.
S. S. Italy, N. 42° 50′, W. 41° 36′	30.31	769.9	52	11.1	79	n.			3		2	ne.	5 h'r	5 h'r	cross	ne.	clear.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY																	
S. S. Niagara, Havana, Cuba, W. I†	30.08	764.0	77	25.0	82	e.			1		0		o	o			clear.
NEW YORK, HAVANA AND MEXICAN MAIL.																	
S. S. City of Alexandria, N. 38° 09′, W. 74° 32′*†	30.17	766.3	52	11.1	59	calm			0		0		o	o	h'vy	ene.	blue sky.
S. S City of Puebla, Havana, Cuba, W I.†	29.95	760.7	76	24.4		e.			2		0						
NEW YORK HERALD WEATHER SERVICE.																	
S. S. Alvena, N. 18° 30′, W. 66° 08′†	29.97	761.2	75	23.9		var.			1						sm'h		clear.
S. S. Olbers, N. 6° 50′ W. 28° 00′*†	30.02	762.5	80	26.7		ne.			4–5							ne.	fine.
S. S. P. Caland, N. 40° 01′, W. 66° 29′	29.86	758.4	42.8	6.0		w.			6						5	w.	
NORTH GERMAN LLOYD.																	
S. S. Elbe, N. 40° 32′, W. 61° 18′	29.80	756.9	61.7	16.5	66	ssw.			6–7		10	ssw.	8 h'r	8 h'r	r'gh	ssw.	stormy.
S. S. Graf Bismarck, S. 15° 06′, W. 38° 28′	30.13	765.3	81.5	27.5		se.			4		4	se.	3 h'r	3 h'r	mod.	se.	fair.
S. S. Hapsburg, N. 43° 01′, W. 45° 53′	30.43	772.9	41.9	5.5		nnw.			2		8	nnw.	8 h'r	8 h'r	sm'h	nnw.	cloudy.
S. S. Hermann, N. 37° 03′, W. 75° 06′†	29.99	761.7	51.8	11.0		s.			1		1	s.	o	o	mod.	s.	fair.
S. S. Kronprinz F. Wilhelm, N. 41° 54′ W 62° 57′	29.76	755.9	46.4	8.0		wsw.			6		10		8 h'r	8 h'r	5	s.	cloudy.
S. S. Main, N. 50° 13′, W. 3° 16′	29.38	746.2	50.9	10.5		wnw.			8		10	wnw.	3 h'r	3 h'r	high	wnw.	light rain.
S. S. Mosel, N. 40° 39′. W. 67° 33′	29.87	758.7	41	5.0		w.			6		10	w.	5 h'r	5 h'r	cross	wsw.	cloudy.
S. S. Nurnburg, N. 39° 35′, W 68° 04′*	29.92	760.0	41.0	5.0		w.			6		10	w.	6½h'r	6½h'r	r'gh	w.	clearing.
S. S. Ohio, N. 53° 53′, E. 7° 16′	29.54	750.3				s.			4		8	s.	o	o	sm'h	s.	cloudy.
S. S. Salier, N. 49° 06′, W. 13° 03′	29.82	757.4	50.9	10.5		wnw.			6		2	wnw.	3 h'r	3 h'r	h'vy	wnw.	fair.
S. S. Strassburg, N. 46° 47′, W. 34° 15′	29.97	761.2	50.0	10.0	93	wnw.			5–6		7	nnw.	12 h'r	12 h'r	r'gh	wnw.	cloudy.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																	
S. S. Belgic, N. 36° 21′. W. 161° 14′†	30.06	763.5	56	13.3	75	nnw.			6		5	nnw.	o	o	high	nw.	fair.
S. S. Oceanic, Hong Kong, China*	29.79	756.7	80	26.7	87	s.			5								cloudy.
OCEAN STEAMSHIP COMPANY.																	
S. S. City of Augusta, Savannah, Ga.†	30.04	763.0				n.			1		0						clear.
S. S. Seminole, Off Minot's Light, Mass.†	30.02	762.5	42	5.6	83	n.			5		8	nnw.	18 h'r	18 h'r	r'gh	ene.	cloudy.
OREGON IMPROVEMENT COMPANY.																	
S. S. Mississippi, Seattle, Wash. Ter.†	30.47	773.9	44	6.7	92	calm			0		0						clear.
S. S. Willamette, N. 43° 12′, W. 124° 46′*†	30.22	767.6	49	9.4	85	n.			2		5	n.	o	o	sm'h		fine.
OREGON RAILWAY AND NAVIGATION COMPANY.																	
S. S. City of Chester, San Francisco, Cal.*†	30.18	766.6	53	11.7	93	e.			1		0						clear.
S. S. Oregon, San Francisco, Cal.†	30.03	762.7	55	12.8	90	calm			0								hazy.
PACIFIC COAST STEAMSHIP COMPANY.																	
S. S. Ancon, N. 32° 40°, W. 117° 15′†	29.96	761.0	57	13.9	87	e.			1		10	s.			sm'h		cloudy.
S. S. Idaho, Seattle, Wash. Ter.†	30.25	768 3	43	6.1	43	w.			1		0						clear.
S. S. State of California, N. 38° 43′, W. 124° —′†	30.03	762.7	50.0	10.0	93	nnw.			3		0				sm'h	nw.	clear.
S. S. Victoria, San Francisco, Cal.†	30.03	762 8	53	11.7	86	calm			0		0		o	o			clear.
PACIFIC MAIL STEAMSHIP COMPANY.																	
S. S. Australia, S. 23° 49′, W. 175° 24′	29.91	759.7	76	24.4	82	n.			4		8	nne.			mod.	n.	cloudy.
S. S. City of New York, Sydney, N. S. W.†	29.73	755.1	67	19.4	89	sw.			1		1	sw.	o	o			clear.
S. S. City of Pekin, N. 29° 30′, W. 116° 50′†	29.94	760.5	55	12.8	93	nw.			5		10	nw.			mod.	nw.	cloudy.
S. S. City of Rio de Janeiro, Panama, Panama*†	30.09	764 3	79	26.1	82	n.			1		0				sm'h	nw.	clear.
S. S. City of Tokio, N. 35° 26′, E. 139° 39′†	29.42	747.3	61	16.1	82	sw.			2		10	sw.	o	o			cloudy.
S. S. Clyde, N. 23° 10′, W. 105° 25′†	29.85	758.4	69	20.6	85	e.			1		5	ne.	o	o	light	sw.	fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
PACIFIC MAIL STEAMSHIP COMPANY.—Continued.																		
S. S. Granada, Acapulco, Mexico.†	29.85	758.2	73	22.8	85	sw.			1		0			0	0			hazy.
S. S. South Carolina, La Union, San Salvador†	29.96	761.0	85	29.4	72	calm			0		0			0	0	sm'h		dense smoke.
S. S. Zelandia, S. 26° 11′, W. 176° 27′.	29.90	759.4	75	23.9	90	nnw.			3		5?		nw.			sm'h		clear.?
QUEBEC S. S. COMPANY.																		
S. S. Muriel, N. 22° 14′, W. 64° 45′	29.99	761.7	79	26.1		e.			3		2			3 h'r	3 h'r	mod.	e.	fair.
S. S. Bermuda, St. Pierre, W. I†	30.02	762.5	64	17.8		e.			1		3		e.	0	0	sm'h		fine.
RED STAR LINE.																		
S. S. Belgenland, N. 40° 14′, W. 49° 50′†	30.54	775.7	60	15.6	94	n.			4		6		n.	0	0	mod.	sw.	fair.
S. S. Nederland, N. 42° 10′, W. 39° 10′*†	30.28	769.1	55	12.8		wnw.			4		8		nw.	12 h'r	12 h'r	mod.	wnw.	cloudy.
S. S. Rhynland, Jersey City, N. J.	30.04	763.0	46	7.8	77	calm			0		10		nnw.	0	0			cloudy.
S. S. Switzerland, N. 49° 38′ W. 7° 00′†	29.55	750.6				w.			8		8		w.	6 h'r	6 h'r	h'vy	w.	fair.
S. S. Vaderland. N. 47° 50′, W. 26° 45′	29.61	752.1	48	8.9	100	nnw.			3		10		w.	7 h'r	7 h'r	mod.	n.	hazy.
S. S. Waesland, Antwerp, Belgium	29.42	747.3	49	9.4		ssw.			4		10		sw.	3 h'r	3 h'r			light rain.
ROTTERDAM LINE.																		
S. S. Schiedam, N. 49° 27′ W. 26° 15′*	29.72	754.9	49.8	9.9	95	ene.			5		10			6 h'r	6 h'r	mod.	w.	rainy.
STATE LINE.																		
S. S. State of Florida, Greenock, Scotland	29.19	741.4	50	10.0		nne.			3		10		ne.	sh'rs	sh'rs			light rain.
S. S. State of Georgia, N. 52° 41′ W. 23° 49′†	29.93	760.2	44	6.7		n.			4		2		n.			short	n.	showery.
THINGVALLA LINE.																		
S. S. Thingvalla, N. 40° 35′ W. 70° 03′†	30.19	766.8	41.0	5.0		nnw.			4		2		nnw.	6 h'r	6 h'r	mod.	nnw.	clear.
WHITE CROSS LINE.																		
S. S. Plantyn, N. 40° 48′ W. 56° 01′	30.13	765.3				sse.			5–6		5		sse.	0	0	sm'h		fine.
WHITE STAR LINE.																		
S. S. Adriatic, N. 50° 40′, W. 21° 32′†	29.82	757.4	49	9.4		nne.			6		8		n.	shr's	shr's	long	n.	drizzling
S. S. Baltic, N. 43° 42′ W. 46 54′†.	30.45	773.4	39	3.9	100	n.			3		9		wnw.	9 h'r	9 h'r	sm'h	wnw.	d. clouds.
S. S. Britannic, N. 41° 55′, W. 60° 07′†	29.88	758.9	55	12.8		s.			6		10		s.	2 h'r	2 h'r	high	ssw.	raining.
S. S. Celtic, N. 40° 22′. W. 69° 23′†	29.92	760.0	38	3.3		nw.			5		8		n.	0	0	mod.	sse.	fair.
WILSON LINE.																		
S. S. Otranto, N. 48° 11′, W. 26° 29′†	29.38	746.2	48	8.9		nw.			3				wnw.			r'gh	w.	light rain.
S. S. Romano, New York, N. Y.*†	29.85	758.2	42	5.6														overcast.
S. S. Salerno, Falmouth, Eng*	29.43	747.5	54	12.2	87	wnw.			8		9		wnw.					showery.
WINSOR LINE.																		
S. S. Catherine Whiting, Shinnecock, Long I'd, N.Y†	30.04	763.0				wnw.			1				n.	0	0			
MISCELLANEOUS.																		
Schr. Abbe Clifford, N. 31° 30′, W. 51° 54′*†	30.15	765.8	69	20.6		ne.			4		10		e.	5 h'r	5 h'r	mod.	nne.	cloudy.
Sch. Addie Fuller, Newport News, Va†	30.19	766.8	53	11.7	93	s.			3	7 ck	0	ne.		0.04	1.0			fair.
Bk. Adelaide, Rio de Janeiro, Brazil*†	30.20	767.1	82	27.8		sse.												
Schr. Ajax, N. 29° 26′ W. 88° 20′†	30.29	769.4				e.			1					0	0	sm'h		hazy.
Bk. Alpha, Santiago de Cuba, Cuba, W. I†	29.94	760.5	79	26.1		nne.			2		2		n.	1 h'r	1 h'r			fair.
Schr Annie Lewis, Aransas, Pass, Texas†	30.01	762.2	78	25.6		sse.			2		8		sse.	0	0	short	sse.	cloudy.
Bk. Antioch, S. 39° 52′, E. 48° 30′*†	29.74	755.4	59	15.0		wsw.			4		3		wsw.	0	0	sm'h	wsw.	fair.
Schr. Asa Eldridge, Havana, Cuba, W. I†	30.11	764.8				ene.			3		2			0	0			clear.
Bk. Aureola, S. 15° 30′, W. 36° 01′*†	30.15	765.8	90	32.2		ese.			4		6		ese.	8 h'r	8 h'r	hv'y	ssw.	squally.
Bkt. Carrie Heckle, Cienfuegos, Cuba, W. I*†	30.14	765.5	80	26.7		e.			1		2		se.	0	0			fair.
Bk. Celestina, S. 35° 35′, W. 55° 46′*†	29.99	761.7				nnw.			1		0			0	0	sm'h		
Bk. Champion, Off Bremerhaven, Germany†	29.41	747.0				ssw.			5		10		sw.	5 h'r	5 h'r	sm'h	w.	
S. S. Compton, N. 27° 07′, W. 86° 42′†	30.03	762.7				calm			0		5		wnw.	0	0	sm'h		clearing.
S. Dora, N. 41° 30′, W. 39° 20′†	30.33	770.4	59.5	15.3		nnw.			4–5		6		n.	12 h'r	12 h'r	long	sw.	fair.
S. E. J. Spicer, N. 40° 56′, W. 39° 55′†	30.27	768.8				ne.			5		6		nne.	6 h'r	6 h'r	mod.	nne.	
S. Enoch Train, N. 40° 32′ W. 53° 02′*	30.25	768.3				ese.			3		5		sse.	0	0	sm'h		clear.
S. Exporter, S. 17° 00′, W. 32° 00′*†	30.25	768.3				ene.			4					22 h'r	22 h'r	hv'y	s.	squally.
S. Festina Lente, N. 37° 52′, W. 63° 50′*	29.98	761.5	67	19.4		ssw.			6		10		wsw.	0	0	mod.	sw.	threatening.
U.S.F.C.S.S. Fish Hawk, Quantico, Va†	30.22	767.6	50	10.0	71	nw.			1		1		calm	0	0			clear.
S. Grecian, S. 40° 34′ E. 51° 17′*†	29.70	754.4	53	11.7		sw.			6		4		wsw.	0	0	r'gh	nw.	clear.
Bk. Freya, Queenstown, Ireland			51	10.6		w.			7		5		w.	3 h'r	3 h'r			squally.
Bk. Granville, Algoa Bay, Africa*†	30.09	764.3				wnw.								0	0			clear.
S. Hedwig, N. 41° 05′, W. 63° 49′	29.79	756.7	49.3	9.6	97	wsw.			7		6		wsw.	11 h'r	11 h'r	4	sw.	hazy.
Schr. John L. Thomas, Serrana Cays, C. A*†	30.04	763.0				ne.					3		e.	0	0	light	nne.	fine.
Bg. John Wesley, N. 25° 08′ W. 80° 06′†	29.92	760.0	80	26.7		se.			4		2		se.	0	0	sm'h	ne.	clear.
Bk. Jona, N. 51° 10′, W. 4° 40′*†	29.70	754.4				nw.			7		1		nnw.	3 h'r	3 h'r	long	w.	squally.
Bkt. Josephine, N. 11° 27′ W. 75° 09′*†	29.94	760.5	82	27.8	74	ne.			6		8		ne.	0	0	mod	ne	hazy.
Bk. Kate Cann, N. 46° 50′, W. 19° 20′*†	29.72	754.9				wnw.			5		5		nw.	6 h'r	6 h'r	r'gh	nnw.	raining.
Bkt. Kryolith, N. 46° 14′ W. 14° 00′*†	29.95	760.7				w.			5		2		wnw.	0	0	mod.	nw.	clearing.
S. Lake Erie, N. 50° 39′, W. 11° 13′	29.50	749.3				nw.			7		5?		n.	hail	hail	hv'y	nw.	clear.?
Light House Tender, Laurel, Key West, Florida†	30.07	763.8	79	26.1		se.			1		3		se.	0	0			clear.
Schr. Maggie Abbot, Baracoa, Cuba, W. I*†	29.92	760.0																
S. S. Malabar, N. 22° 36′, E. 37° 13′*†	29.90	759.4				nw.			4					0	0			
Bg. Medina, Key Francis, W. I.†	30.13	765.3				sse.			1		8		s.					fine.
S. S. Nebo, S. 20° 48′, W. 39° 41′*†	30.08	764.0				ene.			3		2		e.	0	0	long	ene.	clear.
S. S. New York, N. 36° 33′ W. 2° 06′*†	30.25	768.3				w.			3				w.	0	0	h'vy	w.	fair.
Bk. Peppina, Bordeaux, France†	29.81	757.2	59	15.0	64	sw.			6		5		w.					rainy.
Bg. Potomac, N. 12° 27′, W. 39° 06′*†	29.95	760.7				ene.			3				ene.			sm'h		fine.
S. Salisbury, S. 19° 01′ W. 31° 01′*	30.17	766.3	79.2	26.2	82	ese.			6–7		9		ese.	5 h'r	5 h'r	rg'h	sse.	cloudy.
Schr. S. B. Hubbard, St. John's River, Fla*†	30.01	762.2	75	23.9		calm			0		0			0	0			fine.
Bk. Stella, S. 29° 27′, W. 82° 54′*	30.08	764.0	73.0	22.8	93	n.			1		5		n.	0	0	sm'h	w.	d. clouds.
S. S. Utopia, N. 40° 12′, W. 47° 05′†	30.48	774.2	50	10.0	71	ene.			3		8		ne.	0	0	sl't	ne.	cloudy.
Yacht Vega, N. 37° 35′, W. 68° 32′*†	30.20	767.1	58	14.4		nw.			1					0	0	h'vy	nw.	fair.
S. Washington, N. 47° 12′, W. 27° 08′*†	29.53	750.0				ssw.			6		10		sw.	7 h'r	7 h'r	chop	sw.	overcast.
Bg. Wauburn, N. 19° 52′, W. 56° 17′*†	30.10	764.5				se			4		3		se.			sm'h		
S. Wm. Woodbury, N. 37° 15′, W. 57° 10′*†	30.09	764.3	62	16.7		ssw.			6				w.			light	ssw.	clear.

International Chart I. April 28, 1882. Isobars and Isotherms.



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON APRIL 29, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours	.....	.....	29.94	760.4	72.3	22.4	25	W.	.....	.....	5	.....	0	.....	.....	0	0	clear	Moiroud.
Algiers	.....	.....	29.99	761.7	75.6	24.2	53	wsw.	.....	.....	1	.....	0	.....	.....	0	0	clear	Nicolas.
La Calle	.....	.....	30.02	762.6	73.0	22.8	68	nnw.	.....	.....	1	.....	2	.....	.....	0	0	fair	Fonfrède.
Tunis	.....	.....	30.03	762.8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.12	765.0	83.8	28.8	24	sw.	.....	.....	1	.....	0	.....	.....	0	0	clear	Dumas.
Tebessa	.....	.....	30.11	764.9	55.0	12.8	61	w.	.....	.....	2	.....	1	.....	.....	0	0	very fair	Derché.
Gerlville	.....	.....	.....	.....	83.5	28.6	58	w.	.....	.....	1	.....	0	.....	.....	0	0	clear	Lonchamp.
Laghouat	.....	.....	30.14	765.6	82.4	28.0	60	sw.	.....	.....	1	.....	0	.....	.....	0	0	clear	Abraham.
Biskra	.....	.....	30.13	765.3	84.9	29.4	36	se.	.....	.....	1	.....	0	.....	.....	0	0	clear	Malau.
Australian.																			
Melbourne, Victoria	29.55	750.6	29.64	752.8	54.6	12.6	82	n.	10	4.5	.....	.....	10	.....	.....	0.15	3.8	dull	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.23	742.4	29.77	756.1	59.4	15.2	60	se.	.....	.....	2	.....	10	.....	.....	0	0	.....	Prof. Ivan Stozir.
Cracow, I. R Observatory	28.90	734.0	29.66	753.4	51.4	10.8	77	w.	10.5	4.7	.....	.....	10	.....	.....	0.634	16.1	.....	Dr. Wierzbiski.
Eperies	28.71	729.1	29.57	751.1	56.1	13.4	79	calm	.....	.....	0	.....	10 ns	.....	s.	0.409	10.4	.....	Julius Mikolik.
Gratz	28.50	723.9	29.73	755.1	58.6	14.8	45	nw.	.....	.....	4	.....	3	.....	.....	1.043	26.5	.....	Andreas Rospini.
Hermannstadt	28.17	715.5	29.57	751.0	58.1	14.5	87	s.	.....	.....	2	.....	10	.....	.....	0.382	9.7	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.50	723.9	29.84	757.8	51.8	11.0	61	wnw.	.....	.....	4	.....	8	.....	.....	0.063	1.6	rain & hail.	The Staff.
Lemberg	28.58	726.0	29.54	750.4	58.3	14.6	77	se.	.....	.....	2	.....	10	.....	.....	0.228	5.8	.....	Dr. T. Stanecki.
Pola	29.71	754.6	29.82	757.4	63.0	17.2	72	wnw.	.....	.....	1	.....	5	.....	.....	0.551	14.0	.....	I. R.Hydrographic Office.
Szathmar	29.11	739.4	29.56	750.8	59.7	15.4	75	sw.	.....	.....	2	.....	10	.....	.....	0.787	20.0	.....	Joseph Midlinszky, S. J.
Szegedin	29.35	745.4	29.62	752.4	55.4	13.0	72	w.	.....	.....	3	.....	10	.....	.....	0.031	0.8	.....	Karl Stancel.
Trieste	29.72	754.9	29.82	757.5	61.9	16.6	68	calm	.....	.....	0	.....	4	.....	.....	0	0	.....	Rieder.
Vienna	29.07	738.3	29.78	750.4	52.9	11.6	61	nw.	.....	.....	2	.....	10	.....	.....	0.091	2.3	.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.16	740.7	29.25	742.9	45.5	7.5	54	nw.	14	6.3	.....	.....	6	.....	.....	0	0	d. clouds	W. Boswell.
Armagh, Observatory	29.03	737.3	29.27	743.4	46.0	7.8	69	ne.	7	3.1	.....	.....	10	.....	.....	.....	.....	overcast	S. Call.
Bidston, Liverpool Obs'y	.....	.....	29.18	741.2	40.9	4.9	92	e.	28	12.5	.....	.....	10	.....	.....	.....	.....	raining	John Hartnup.
Bolton, Sharples	29.68	753.9	30.23	767.8	42.7	5.9	66	sse.	18	8.0	.....	.....	10	.....	.....	.....	.....	raining	Thomas Mackereth.[A.S.
Bradford, Yorkshire	28.84	732.5	29.24	742.7	48.3	9.1	61	se.	.....	.....	2	.....	10	.....	.....	1.00	25.4	overcast	J.McLandsborough, F. R
Bridgetown, Barbadoes	29.97	761.2	30.00	762.0	83.0	28.3	70	ne.	.....	.....	2	.....	2	.....	.....	.....	.....	d. clouds	Corpl.J.Surgenor, A. H.C.
Cardington	.....	.....	29.22	742.2	47.4	8.6	92	e.	.....	.....	2.0	.....	10	.....	.....	.....	.....	raining	John McLaren.
Chatham, School M. E.	29.24	742.7	29.37	746.0	46.9	8.3	94	sw.	.....	.....	3	.....	10	.....	.....	.....	.....	raining	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	29.75	755.6	29.98	761.5	49.7	9.8	81	ssw.	.....	.....	8	.....	10	.....	.....	.....	.....	foggy	The Staff.
Fort Napier, Natal	27.53	699.2	29.75	755.6	86.0	30.0	40	e.	.....	.....	1	.....	0	.....	.....	.....	.....	blue sky	Pvt. E. K.Annis, A. H.C.
Free Town, Sierra Leone	29.58	751.3	29.82	757.4	89.0	31.7	72	sw.	.....	.....	1	.....	3	.....	.....	.....	.....	.....	Sergt. John Robinson.
Gibraltar, Mediterranean	29.96	761.0	30.01	762.2	74.6	23.7	75	w.	.....	.....	1	.....	0	.....	.....	.....	.....	blue sky	Opl. O. Baldwin.
Glasgow, Observatory	29.05	737.9	29.25	742.9	48.6	9.2	42	nw.	.....	.....	1	.....	4	.....	.....	.....	.....	d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.13	739.9	29.30	744.2	46.8	8.2	93	sse.	.....	.....	5	.....	10	.....	.....	.....	.....	raining	The Staff.
Guernsey	28.95	735.3	29.24	742 7	53.5	11.9	79	wsw.	.....	.....	7	.....	10	.....	.....	.....	.....	raining.	A. Collenette, F. M. S.
Kew, Observatory	29.25	742.9	29.29	744.0	48.0	8.9	89	se.	28	12.5	.....	.....	10	.....	.....	.....	.....	raining	The Staff.
Leicester, Museum	28.98	736.1	29.23	742.4	43.5	6.4	88	se.	.....	.....	3	.....	10	.....	.....	.....	.....	overcast	J. C. Smith.
Malta, Mediterranean	29.84	757.9	29.92	760.0	67.0	19.4	56	w.	.....	.....	4	.....	2	.....	.....	.....	.....	blue sky	I. H. Whysall.
Nassau, Bahamas	30.06	763.5	30.11	764.8	78.2	25.7	65	se.	.....	.....	1	.....	4	.....	.....	.....	.....	d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	28.66	728.0	29.18	741.2	40.7	4.8	95	e.	.....	.....	2	.....	10	.....	.....	.....	.....	raining	John Mac Emall.
Oxford, Radcliffe Obs'y	28.95	735.3	29.18	741.2	46.2	7.9	91	se.	.....	.....	6	.....	10	.....	.....	.....	.....	raining.	The Staff.
Plymouth	28.94	735.1	29.01	736.8	51.8	11.0	98	sew.	.....	.....	6	.....	10	.....	.....	.....	.....	raining	John Merrifield.
Sandwick Manse, Orkneys	.....	.....	29.21	741.9	41.9	5.5	91	w.	24	10.7	.....	.....	10	.....	.....	.....	.....	raining	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.64	752.8	29.70	754 4	59.0	15.0	76	w.	.....	.....	1	.....	8	.....	.....	.....	.....	thnd'r storm	W. H. Lyne.
Sheffield	28.96	735.6	29.24	742.7	42.1	5.6	98	s.	.....	.....	2	.....	10	.....	.....	1.01	25.7	raining	W. F. Cooper.
Siloth Rectory	29.22	742.2	29.25	742.9	48.8	9.3	57	ne.	.....	.....	1	.....	10	.....	.....	0	0	overcast	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	29.25	742.9	46.5	8.1	51	ese.	11	4.9	.....	.....	10	.....	.....	blank	blank	overcast	Rev. S. J. Perry.
Straffield Turgiss	.....	.....	.....	.....	49.6	9.8	92	se.	.....	.....	4–5	.....	10	.....	.....	.....	.....	raining	Rev.O.H.Griffiths,F.M.S
Truro, Royal Institution	29.23	742.4	29.27	743.4	55	12.8	86	nw.	.....	.....	8	.....	10	.....	.....	.....	.....	raining	W. Newcombe.
Valencia, Observatory	29.33	745.0	29.36	745.7	41.9	5.5	83	nnw.	28	12.5	.....	.....	10	.....	.....	.....	.....	raining	The Met'g'l Office.
Canadian.																			
Bathurst, N. B	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.89	759.2	29.93	760.2	33	0.6	74	w.	12	5.4	.....	.....	10 s	.....	w.	0.355	9.0	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	29.86	758.4	29.92	760.0	33	0.6	81	sw.	3	1.3	.....	.....	10 ks	.....	sw.	0.03	0.8	cloudy	G. A. Blair.
Father Point, Quebec*	29.90	759.4	29.92	760.0	34	1.1	81	sw.	11	4.9	.....	5 k	2 s	.....	calm	0	0	clearing	J. McWilliams.
Fort Garry, Manitoba*	29.60	751.8	30.47	773.9	27	— 2.8	88	calm	0	0	.....	0	0	.....	.....	0	0	clear	James Stewart.
Halifax, N. S*	29.90	759.4	30.04	763.0	36	2.2	69	w.	8	3.6	.....	0	0	.....	.....	0.200	5.1	clear	A. Allison.
Kingston, Ontario*	29.66	753.4	30.00	762.0	38	3.3	82	w.	8	3.6	.....	.....	8 k	.....	w.	0.36	9.1	cloudy	A. P. Knight, M. A.
Montreal, Quebec*	29.75	755.6	29.97	761.2	35	1.7	82	n.	2	0.9	.....	.....	10 s	.....	.....	0.03	0.8	cloudy	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.34	745.2	30.05	763.3	36	2.2	61	w.	3	1.3	.....	0	0	.....	.....	0.03	0.8	clear	Rev. R. Mosley.
Port Dover, Ontario	29.37	746.0	30.08	764.0	41	5.0	93	nw.	5	2.2	.....	0	0	.....	.....	inap.	inap.	clear	H. Morgan.
Port Stanley, Ontario	29.42	747.3	30.08	764.0	40	4.4	89	nw.	4	1.8	.....	2 ck	0	nw.	.....	0	0	clear	M. Payne.
Quebec, Quebec*	29.64	752.8	29.97	761.2	33	0.6	81	nw.	.....	.....	1	0	5 s	.....	nw.	0	0	fair	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.48	748.8	29.95	760.7	38	3.3	85	nw.	6	2.7	.....	0	8 s	.....	nw.	0.23	5.8	cloudy	W. H. McIntyre.
Saugeen, Ontario*	29.73	755.1	30.00	763.5	41	5.0	79	se.	2	0.9	.....	0	0	.....	.....	0	0	clear	
St. Andrews, N. B	29.95	760.7	30.01	762.2	35	1.7	85	calm	0	0	.....	.....	10 n	.....	.....	0.18	4.6	cloudy	
Sydney, C. B*	29.80	756.9	29.87	758.7	34	1.1	85	w.	15	6.7	.....	.....	10 n	.....	w.	0.28	7.1	cloudy	T. C. Hill, C. E.
Toronto, Ontario*	29.68	753.9	30.08	764.0	41	5.0	70	nw	6	2.7	.....	0	0	.....	.....	0.03	0.8	clear	Magnetic Observatory.
Yarmouth, N. S*	30.00	762.0	30.07	763.8	36	2.2	96	sw.	3	1.3	.....	.....	10 s	.....	sw.	0.85	21.6	cloudy	Lt. F. E. Wilmot, R. N.
Sub-series.																			
St. Johns, Newfoundland	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	29.99	761.7	30.02	762.5	67.0	19.4	78	wsw.	10.8	4.8	.....	10 c	0	.....	.....	0.020	0.5	hazy	John Duthie.
Cape Town, C. G. H. Obs'y	29 94	760.5	29.98	761.5	66.8	19.3	64	nw.	9	4.0	.....	8	8	.....	.....	0.290	7.4	.....	The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Chinese (*Sub-series*).																			
Hankow																0	0		N. Titoushkin.
Zi-Ka-Wei, near Shanghai	30.09	764 3	30.12	765.0	52.7	11.5	67	n.	7.4	3.3		10 ck;fg	0	w.		0	0	covered	M.Marc Dechevrens,S.J.
Danish.																			
Copenhagen	29.54	750.4	29.59	751.6	54.0	12.2	68	sw.	13	6			3						Oversergent Fischer.
Fanöe	29.51	749.5	29.53	750.0	51.3	10.7	87	sw.			6		5						Overloerer Lauridsen.
Godthaab, Greenland	30.23	767.9	30.28	769.0	11.1	—11.6	84	s.			5		9						S. Kleinschmidt.
Stykkisholm, Iceland	29.79	756.6	29.83	757.7	16.2	— 8.8	94	ne.			8		10					snowing	A. O. Thorlacius.
Thorshavn	29.24	742.6	29.27	743.5	43.7	6.5	91	se.	20	9			10					raining	Overloerer Bergh.
Vestervig	29.35	745.5	29.44	747.8	49.8	9.9	87	s.			6		7						Loerer Oesterbol.
French.																			
Agen, Normal School	29.31	744.5	29.95	760.6	65.5	18.6	59	ssw.			1	2 k	0	w.		0	0		M. Labroue, Director.
Alençon, Normal School	29.06	738.2	29.61	752.2	51.4	10.8	90	s.			2		n	n.	n.	0.181	4.6		M. Nicot, Director.
Arras, Engineer School	29.28	743.7	29.54	750.2	48.9	9.4	81	s.			6		n		sw.	0.209	5.3		Capt. Bertrand, Dir.
Avginon, Normal School	29.90	759.5	29.98	761.5	66.2	19	46	nw.			1		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.25	743.0	29.81	757.1	54.9	12.7	56	s.			1		10			0	0	covered	M. Saillard, Director.
Beauvais, Normal School	29.37	746.1	29.64	752.9	51.8	11	83	sse.			2		10		sse.	0.248	6.3	raining	M. Frère Eugène Marl.
Besançon, Normal School	28.90	734.1	29.79	756.7	57.6	14.2	57	ssw.			1	0	2 cn		ne.	0.346	8.8	slightly cl'dy	M. Gobin, Director.
Bordeaux, Observatory	29.61	752.1	29.87	758.6	64.6	18.1	49	w.			2		10		w.	0.035	0.9	covered	M. Rayet, Director.
Bourges, Normal School	29.29	743.9	29.88	758.9	58.5	14.7	63	sw.			2		k		sw.	0.130	3.3		M. Postel, Director.
Brest, Naval Observatory	29.13	740.0	29.39	746.6	54.0	12.2	78	w.			6		6		w.	0.071	1.8		M. de Kermaree, Dir.
Caen, Normal School	29.38	746.3	29.45	748.1	55.0	12.8	75	so.			6		10		s.	0.193	4.9	covered	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.38	746.2	29.69	754.1	56 3	13.5	71	sw.			2		8			0.319	8.1	very cloudy.	M. Jadot, Director.
Charleville, Normal School	29.24	742.8	29.75	755.6	53.6	12.0	61	sw.			2		10		e.	0.24	6.	covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.52	724.3	29.84	757.8	64.4	18.0	50	wsw.			1		2		wsw.	0.157	4.0	½ covered	M. Alluard, Director.
Cluny, Normal School	29.05	737.8	29.89	759.1	55.4	13	53	sse.			2			s.		0.008	0.2		M. de Villemontée, Dir.
Commercy, Normal School	28.95	735.2	29.80	757.0	56.3	13.5	46	sw.			3		5ckn	sw.	sw.	0.39	10.	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.39	695.6	29.87	758.7	60.8	16	31									0	0		M. Jeangirard, Director.
Gréasque, dn. Rhone	28.82	732.1	29.94	760.4	61.7	16.5	37	nw.			2		1		nw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.13	740.0	29.89	759.3	59.7	15.4	56	se.			1	cs	0			0	0		M. Ablard, Director.
Guéret, Normal School	28.30	718.7	29.87	758.8	53.2	11.8	71	sw.			3		kn		sw.	0.059	1.5		M. Rivoire, Director.
Lamballe, Normal School	29.12	739.6	29.39	746.4	56.5	13.6	60	sw.			8		5		sw.	0	0	cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.32	744.6	29.87	758.6	69.1	20.6	44	wsw.			1		0			0.173	4.4	clear	M. Chauvin, Director.
Lorient, Naval Observatory	29.40	746.7	29.50	749.3	57.2	14.0	78	sw.			9		10			0.039	1.0	raining	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.85	732.8	29.90	759.4	59.4	15.2	41	sse.			1	0	2 n		sw.	0.039	1.0	clear	M. André, Director.
Mans, Normal School	29.32	744.6	29.62	752.4	52.7	11.5	92	sw.			6		8		ne.	0.106	2.7	very cloudy.	M. Piboen, Director.
Marseille, Observatory	29.68	753.8	29.95	760.6	62.4	16.9	43	w.			3		0			0	0		M. Stephan, Director.
Montlouis l'institnteur	24.78	629 3	29.62	752.3	56.3	13.5	39	wsw.	15.0	6.7			0						M. Cave, for Dr. Fines.
Montpellier, Normal School	29.80	757.0	29.93	760.3	66.2	19	75	w.			2		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.02	737.0	29.79	756.6	57.2	14	39	sse.			2		2 k	sw.	ssw.	0.157	4.0	slightly cl'dy	M. Hasse, Director
Nantes, Observatory	29.49	749.1	29.65	753.2	55.9	13.3	90	sw.			2–4		10		sw.			rainy	M. Larocque, Director.
Perpignan, Observatory	29.87	758.8	29.98	761.5	63.7	17.6	53	s.	11.2	5.0			0			0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.19	538.3			35.4	1.9		nw.			2		1		w.	0	0	clear	Gen'l de Nansouty, Dir.
Privas, Normal School	28.87	733.3	29.84	758.0	61.2	16.2	64						0			0	0	clear	M. Tallieu.
Puy de Dôme Obs'y, Summit	24.96	634.0			35.2	1.8	98	wsw.			6		2			0.654	16.6	¼ covered	M. Allnard, Director.
Rochefort, Naval Obs'y	29.83	757.6	29.86	758.4	56.1	13.4	95	s.			6		10			0.004	0.1	raining	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.45	748.0	29.67	753.5	55.0	12.8	68	w.			4		10			0.055	1.4	covered	M. Mouillot, Director.
Rodez, Normal School	27.84	707.2	29.97	761.3	55.8	13.2	64	nw.			1		0			0.098	2.5	clear	M. Serger, Director.
Rouen, Normal School	29.45	748.1	29.50	749.3	50.0	10	84	s.			3		10		w.	0.295	7.5	raining	M. Brotier.
Saint Maur, Observatory	29.52	749.8	29.69	754.0	50.4	10.2	81	se.			2		10		sw.	0.055	1.4		M. Renou, Director.
Toulouse, Observatory	29.30	744.1	30.02	762.5	65.5	18.6	72	se.			1		2	w.		0	0	slightly cl'dy	M. Baillaud, Director.
Versailles, Observatory	29.16	740.7	29.65	753.2	49.3	9.6	89	sw.			6					0.043	1.1		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.39	746.6	29.69	754.0	50.4	10.2	81	sse.			2		10		ssw.	0.075	1.9	showery	M. Marié Davy, Director
German.																			
Bamberg	28.95	735.2	29.80	756.8	55.8	13.2	39	w.			2	0	6 k		w.	0.008	0.2		Prof. Dr. Hoh.
Berlin	29.53	750.0	29.70	754.4	57.2	14.0	53	sw.			2		7			0.319	8.1		Prof. Dr. Arndt.
Breslau	29.21	741.8	29.73	755.1	55.2	12.9	58	wnw.			2		10			0	0		Royal University Obs'y.
Carlsruhe	29.40	746.7	29.83	757.7	56.7	13.7	44	sw.			5		9	sw.		0	0		Albert Senz.
Cassel	28.96	735.6	29.67	753.7	55.8	13.2	40	s.			4		6	s.		0.047	1.2		Dr. H. Möhl.
Frankfort on the Main	29.42	747.2	29.78	756.4	56.7	13.7	45	wsw.			3		7			0.012	0.3		Physical Society.
Friedrichshafen	28.53	724.6	29.88	759.0	52.5	11.4	67	sw.			4		1	w.		0	0		Wilhelm, Chief Tel.
Hamburg	29.50	750.7	29.65	753.1	54.9	12.7	63	wsw.			4		7	ssw.		0	0		E. Preller.
Kiel	29.60	751.8	29.61	752.2	50.4	10.2	80	sw.			2		10			0.083	2.1		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.32	744.7	29.73	755.2	57.9	14.4	49	sw.			5		7	sw.		0.453	11.5		H. Leppig, Asst.
Magdeburg	29.51	749.5	29.69	754.2	57.0	13.9	56	wnw.			5	0	8 ks		ssw.	0.232	5.9		Dr. Assmann.
Memel	29.61	752.2	29.66	753.4	75.2	24.0	32	se.			4	c	1 k						Issermann.
Munich	28.05	712.5	29.91	759.6	52.7	11.5	42	nw.			2		8	sw.		0.075	1.9		Central Station.
Neufahrwasser	29.63	752 5	29.64	752.9	53.8	12.1	76	nw.			2		10			0.177	4.5		A. Lothes.
Neustadt, Palatinate	29.27	743.5	29.80	756.8	55.0	12.8	47	sw.			1		8	s.		0	0		Dicknether.
Stuttgart	28.88	733.6	29.76	756.0	57.2	14.0	52	sw.			4		4	w.		0	0		Prof. Dr. Schoder.
Wustrow	29.62	752.3	29.65	753.0	53.1	11.7	72	sw.			2		10 s			0.260	6.6		Profs. Brandes & Reimer.
Greek.																			
Athens	29.35	745.6	29.74	755.4	68.2	20.1		sw.			3.0	4				0.020	0.5		Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.73	755.2	29.78	756.5	84.0	28.9	63	wsw.	28.0	12.5			0			0	0	blue sky	
Deesa	29.23	742.5	29.69	754.0	99.6	37.6	31	wsw.	10.1	4.5			0.			0	0	misty	
Bombay	29.77	756.0	29.80	757.0	85.5	29.7	74	wnw.	11.0	4.9			8	w.	sw.	0	0	d. clouds	
Poona, Yarrowda	27.90	708.7	29.70	754.3	94.3	34.6	29	w.	28.0	12.5			2	wnw.		0	0	d. clouds	
Belgaum	27.25	692.2	29.73	755.2	87.0	30.6	51	wsw.	10.0	4.5			7	s.	ne.	0	0	misty	
Lahore	28.86	732.9	29.57	751.0	97.2	36.2	14	n.	4.1	1.8			0			0	0	blue sky	
Roorkee	28.72	729.4	29.58	751 2	100.7	38.2	13	sw.	2.9	1.3			4					thund'r st'm	
Agra	29.06	738.2	29.59	751.7	106.1	41.2	8	w.	3.6	1.6			0			0	0		
Nagpur	28.64	727.4	29.63	752.5	105.2	40.7	8	calm	4.4	2.0			0			0	0	blue sky	
Jubbulpore	28.36	720.2	29.65	753.1	102.4	39.1	12	calm	1.9	0.8			1			0	0	blue sky	
Lucknow	29.34	745.4	29.70	754.5	104.4	40.2	18	calm	0.6	0.3			4			0	0	d. clouds	
Allahabad	29.30	744.2	29.59	751.7	104.3	40.2	13	nw.	1.6	0.7			1		sw.	0	0	d. clouds	
Patna	29.49	749.0	29.67	753.6	96.7	35.9	38	ene.	6.2	2.8			0			0	0	blue sky	
Hazaribagh	27.68	702.9	29.61	752.0	95.8	35.4	22	nnw.	6.5	2.9			0			0	0	blue sky	
Cuttack	29.63	752.6	29.71	754.7	91.5	33.1	43	ssw.	6.2	2.8			2			0	0	d. clouds	
Calcutta, Alipore	29.66	753.5	29.69	754.0	89.2	31.8	53	ssw.	12.0	5.4			0			0	0	blue sky	
Dhubri	29.62	752.1	29.74	755.3	85.6	29.8	63	calm	8.2	3.7			1			0	0	d. clouds	
Chittagong	29.59	751.6	29.68	753.8	83.7	28.7	76	sw.	4.1	1.8			0			0	0	blue sky	
Sibsagar	29.45	748.0	29.78	756.5	82.0	27.8	65	ne.	2.3	1.0			0			0.04	1.0	blue sky	
Jeypore	28.21	716.6	29.60	751.7	100.5	38.1	11	wsw.	3.7	1.6			0			0	0	blue sky	
Zanzibar, Africa	29.91	759.7			84.7	29.3	68	se.	0.7	3.0			7		ese.	0.038	9.7	threatening	
Bellary	28.27	718.0			99.6	37.6	12	se.	4.7	2.1		6 ck	0			0	0	d. clouds	
Trichinopoly	29.52	749.8			95.5	35.3	40	e.	1	0.4			0			0	0	blue sky	
Italian.																			
Udine	29.39	746.4	29.79	756.7	64.8	18.2	59	sw.	1.8	0.8			4			0.677	17.2		Prof. Giovanni Clodig.
Milan	29.32	744.7	29.83	757.7	67.1	19.5	23	sw.	9.8	4.4			0			0	0		Prof. Schiaparelli.
Padua	29.70	754.4	29.81	757.2	63.9	17.7	51	wnw.	12.5	5.6			2	w.		0.079	2.0		Prof. Dott. Lorenzoni.
Moncalieri	28.92	734.6	29.82	757.4	65.3	18.5	29	se.	5.6	2.5			0			0	0		Prof. P. F. Denza.
Genoa	29.65	753.0	29.84	757.8	64.0	17.8	46	w.	11.9	5.3			0			0	0		Prof. G. M. Garibaldi.
Mondovi	27.90	708.6	29.86	758.4	63.0	17.2	23	nw.			4		0			0.004	0.1		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	OBSERVERS.
ITALIAN.—Continued.																			
Pesaro	29.78	756.3	29.82	757.5	58.6	14.8	76	ne.	13.6	6.1	.....	.....	0	.....	.....	0	0	.....	Prof. Luigi Guidi.
Florence	29.58	751.3	29.83	757.7	66.6	19.2	40	sw.	.....	.....	2	.....	3	n.	.....	0.059	1.5	.....	Prof. Costantino Pitter.
Leghorn	29.71	754.7	29.80	756.8	63.7	17.6	59	wsw.	10.5	4.7	.....	.....	3	.....	.....	0	0	.....	Prof. P. Monte.
Rome	29.63	752.6	29.80	757.0	65.3	18.5	47	n.	13.0	5.8	.....	.....	3	.....	.....	0.079	2.0	.....	Prof. P. S. Ferrari.
Lecce	29.49	749.0	29.74	755.3	61.7	16.5	67	nnw.	18.1	8.1	.....	.....	4	n.	.....	0.039	1.0	.....	Prof. C. de Giorgi.
Cosenza	28.91	734.3	29.79	756.7	57.6	14.2	74	ssw.	4.3	1.9	.....	.....	9	sw.	.....	1.165	29.6	.....	Prof. D. Conti.
Cagliari	29.72	754.9	29.91	759.8	65.8	18.8	38	nw.	.....	.....	6	.....	0	.....	.....	0	0	.....	Prof. A. Pacinotti.
Palermo	29.69	754.0	29.93	760.3	64.8	18.2	37	nw.	16.8	7.5	.....	.....	2	nw.	.....	0	0	.....	Prof. G. Ciacciatore.
Syracuse	29.80	756.9	29.84	758.0	69.8	21.0	42	wnw.	18.6	8.3	.....	.....	2	wnw.	.....	0	0	.....	Prof. Vincenzo Guiliano.
Sub-series.																			
Naples, S. It	29.24	742.8	29.76	755.9	63.0	17.2	66	w.	1.3	0.6	.....	.....	4	wnw.	.....	0.575	14.6	.....	Prof. T. Brioschi.
Stelvio	22.00	558.7	.....	.....	31.3	— 0.4	50	sw.	.....	.....	1	.....	0	.....	.....	0	0	misty	Prof. P. F. Denza.
Valdobbia	22.05	560.0	.....	.....	36.1	2.3	53	ne.	.....	.....	6	.....	2	.....	.....	0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Aomori	29.64	752.8	29.67	753.6	51.8	11.0	71	s.	6.5	2.9	.....	0	9 s	.....	.....	0.080	2.0	cloudy	K. Ogawa.
Hakodate	29.66	753.3	29.67	753.6	50.0	10.0	86	w.	2.4	1.1	.....	.....	1	.....	.....	0.105	2.7	clear	
Hiroshima, I. M. Obs'y	29.69	754.1	29.70	754.4	64.2	17.9	61	ssw.	9.0	4.0	.....	ck;cs	9 s	.....	.....	0	0	overcast	K. Sasaki.
Kanazawa	29.55	750.6	29.65	753.1	54.8	12.7	85	se.	4.8	2.1	.....	10 ck	0	w.	.....	0.345	8.8	cloudy	S. Endo.
Kioto	29.57	751.1	29.75	755.6	56.1	13.4	82	nw.	2.7	1.2	.....	cs	10 s	.....	.....	0	0	cloudy	M. Tojima.
Kochi	29.77	756.1	29.79	756.6	65.6	18.7	70	e.	6.0	2.7	.....	9 c;cs	0	w.	.....	0	0	fair	
Nagasaki, I. M. Obs'y	29.65	753.1	29.84	757.9	64.0	17.8	76	sw.	9.8	4.4	.....	.....	10 s	.....	.....	0.010	0.2	overcast	S. Takehayashi.
Niigata	29.62	752.3	29.66	753.3	53.7	12.1	91	calm	0	0	.....	9ck;cs	0	w.	.....	0.130	3.3	cloudy	
Nobiru	29.72	754.9	29.74	755.4	56.0	13.3	77	sw.	16.5	7.4	.....	0	0	.....	.....	0.010	0.2	clear	H. Midzushina.
Supporo	.....	.....	.....	.....	47.5	8.6	72	se.	4.8	2.1	.....	.....	0	.....	.....	2.350	59.7	clear	
Tokei Obs'y, Yeddo	29.69	754.1	29.76	755.9	63.1	17.3	93	s.	6.3	2.8	.....	3 cs	0	wsw.	.....	0	0	fair	The Staff.
Wakayama	29.71	754.6	29.76	755.9	62.7	17.1	74	ene.	0.7	0.3	.....	10 ck	0.	wsw.	.....	0	0	cloudy	Y. Kuwamura.
MAURITIUS.																			
Mauritius Observatory	29.83	757.7	30.02	762.5	78.7	25.9	63	e.	15.5	6.9	.....	0	2 k	.....	se.	0	0	clear	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.68	601.6	29.90	759.6	67.6	19.8	57	s.	.....	.....	.....	.....	fg.	.....	.....	0	0	foggy	Vicente Fernandez.
Leon	24.37	619.0	29.97	761.2	64.4	18.0	64	nnw.	.....	.....	1	7 c	0	nw.	.....	0	0	.....	Prof. M. Leal.
Mazatlan	29.62	752.4	29.88	759.0	67.0	19.4	87	e.	0.9	0.4	.....	2 cs	0	.....	.....	0	0	foggy	F. Quijano, U. E.
Mexico, Central Obs'y	23.10	586.6	30.13	765.2	59.2	15.1	47	calm	0	0	.....	0	0	.....	.....	0	0	foggy	The Staff.
Morelia	24.12	612.6	30.19	766.7	63.0	17.2	78	se.	.....	.....	3	0	0	.....	.....	0	0	clear	M. Tena, M. D.
Pabellon, Aguascalientes	23.94	608.2	29.91	759.8	61.5	16.5	52	ene.	.....	.....	1	1 c	0	sw.	.....	0	0	foggy	M. V. de Leon, M. E.
Puebla, Catholic Institute	23.37	593.7	30.09	764.3	53.6	12.0	71	calm	0	0	.....	0	0	.....	.....	0.01	0.4	clear	Prof. P. Spina.
San Luis Potosi	24.20	614.7	30.16	766.0	62.2	16.8	51	se.	.....	.....	1	1	4	w.	e.	0	0	¾ clouded	G. Barroeta, M. D.
Zacatecas	22.53	572.3	30.35	771.0	64.4	18.0	39	ssw.	5.8	2.6	.....	0	0	.....	.....	0	0	fine	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.58	751.2	29.58	751.2	53.2	11.8	.....	s.	.....	.....	4	.....	.....	.....	.....	0.091	2.3	.....	
Groningen	29.54	750.2	29.59	751.6	53.6	12.0	.....	ssw.	.....	.....	5	.....	.....	.....	.....	0.031	0.8	.....	
Helder	29.55	750.6	29.55	750.6	50.2	10.1	.....	ssw.	.....	.....	5	.....	.....	.....	.....	0.165	4.2	.....	
Hellevoetsluis	29.57	751.1	29.57	751.1	54.5	12.5	66	ssw.	.....	.....	3	.....	.....	.....	.....	0.264	6.7	.....	
Utrecht	29.57	751.0	29.61	752.2	56.3	13.5	53	ssw.	.....	.....	4	.....	5	.....	.....	0.059	1.5	cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.35	745.5	29.41	747.1	52.9	11.6	48	se.	9	4	.....	.....	9	.....	.....	0	0	.....	
Brono	29.73	755.1	29.77	756.1	48.6	9.2	48	se.	22	10	.....	.....	9	.....	.....	0.256	6.5	.....	
Christiania	29.40	746.7	29.55	750.5	39.2	4.0	85	nne.	13	6	.....	.....	10	.....	.....	0.059	1.5	.....	
Gjæsvær	30.06	763.6	30.09	764.2	41.5	5.3	.....	calm	.....	.....	0	.....	3	.....	.....	.....	.....	.....	
Lodingen	29.91	759.6	29.95	760.8	40.6	4.8	43	e.	.....	.....	2	.....	1	.....	.....	.....	.....	.....	
PORTUGUESE.																			
Angra, Azores	.....	.....	.....	.....	64.0	17.8	66	n.	11.2	5.0	.....	.....	3	.....	.....	0	0	.....	Dr. J. A. Sampaio.
Campo Major	29.06	738.0	30.04	762.9	69.4	20.8	49	wsw.	5.6	2.5	.....	.....	1	.....	.....	0	0	.....	Dr. A. M. R. dos Santos.
Funchal, Maderia	30.00	762.0	30.09	764.2	67.6	19.8	73	sw.	.....	.....	.....	.....	2	.....	.....	0	0	.....	Capt. D. A. de Ounha.
Lisbon, Observatory	29.78	756.4	30.14	765.5	63.7	17.6	62	nnw.	8.7	3.9	.....	.....	7	.....	.....	0	0	.....	The Staff.
Ponta Delgada, Azores	30.20	767.1	30.27	768.9	61.9	16.6	90	n.	3.8	1.7	.....	.....	10	.....	.....	0.016	0.4	light rain	
Saint Paul de Loando	29.70	754.4	29.90	759.4	82.8	28.2	82	nnw.	0.7	0.3	.....	.....	2	ese.	.....	0	0	.....	
Serra da Estrella	25.32	643.0	30.00	761.9	53.6	12.0	52	w.	6.3	2.8	.....	.....	1	.....	.....	0.677	17.2	foggy	
RUSSIAN.																			
Akmolinski	28.82	732.0	29.88	759.0	57.7	14.3	43	s.	9	4	.....	4 cs	0	.....	.....	0	0	.....	Major K. Lasarew.
Archangel	29.91	759.7	29.93	760.2	39.4	4.1	88	wnw.	9	4	.....	.....	10	.....	.....	0	0	.....	Capt. Sselliwerstow.
Astrakhan	29.97	761.3	29.89	759.2	65.5	18.6	38	nw.	4	2	.....	.....	10 s	.....	.....	0	0	.....	Capt. Wisganow.
Barnaul	29.43	747.6	29.94	760.4	45.9	7.7	94	wnw.	9	4	.....	.....	10	.....	.....	0.008	0.2	.....	Meteorological Obs'y.
Dorpat	29.88	751.3	29.81	757.1	73.8	23.2	56	ese.	9	4	.....	0	6 k	.....	.....	0	0	.....	Observatory.
Ekaterinburg	28.83	732.2	29.78	756.3	55 2	12.9	29	ne.	9	4	.....	7 ck	0	.....	.....	0.004	0.1	.....	Meteorological Obs'y.
Kasan	29.56	750.9	29.83	757.7	54.5	12.5	56	nw.	7	3	.....	10 cs	0	.....	.....	0	0	.....	Observatory.
Kertch	29.75	755.7	29.77	756.2	67.8	19.9	50	calm	0	0	.....	0	0	.....	.....	0	0	.....	Lagorio & Sastyrex.
Kieff	29.11	739.4	29.72	754.8	72.0	22.2	35	se.	16	7	.....	ck	7 ks	.....	.....	0	0	solar corona	Observatory.
Lugan	29.63	752.5	29.82	757.5	75.0	23.9	25	ssw.	13	6	.....	.....	6	.....	.....	0	0	.....	Meteorological Obs'y
Moscow	29.33	744.9	29.78	756.3	72.1	22.3	39	calm	0	0	.....	0	7 ks	.....	.....	0	0	.....	Meteorological Obs'y.
Nikolaiev	29.72	755.0	29.80	756.8	75.6	24.2	38	calm	0	0	.....	4 cs	0	.....	.....	0	0	.....	Capt. Kurdakow.
Nikolaievsk, on the Amoor	29.45	748.1	29.54	750.3	34.2	1.2	98	e.	20	9	.....	.....	10	.....	.....	0.016	0.4	light rain	Lieut. Iwanow.
Pekin, China	29.71	754 6	29.85	758.2	61.7	16.5	22	calm	0	0	.....	0	0	.....	.....	0	0	.....	Physical Observatory
St. Petersburg	29.92	759 9	29.93	760.3	63.1	17.3	43	e.	9	4	.....	cs	4 k	.....	.....	0	0	.....	Central Physical Obs'y
Semipolatinsk	29.32	744.7	29.97	761.2	59.4	15.2	44	w.	13	6	.....	0	8 k	.....	.....	0	0	heavy cl'ds.	Major Lasaren.
Tashkend, Laboratory	28.34	719.8	29.86	758.4	70.5	21.4	52	nnw	2	1	.....	.....	1	.....	.....	0	0	.....	Teich, A. M.
Tiflis	28.54	724.9	29.91	759.8	70.0	21.1	44	s.	4	2	.....	0	3 k	.....	.....	0	0	.....	Physical Observatory
Vladivostock	29.37	746.0	29.44	747.7	42.3	5.7	100	se.	2	1	.....	.....	10 n	.....	.....	0.157	4.0	raining	
Warsaw	29.14	740.2	29.55	750.6	61.3	16.3	79	s.	9	4	.....	.....	10ks;n	.....	.....	.....	.....	.....	Astronomical Obs'y
Wilna	29.33	744.9	29.72	755.0	73.8	23.2	40	ese.	9	4	.....	.....	5	.....	.....	0	0	.....	Berg, Assistant.
Yeniseisk	29.39	746.6	29.68	753.9	42.6	5.9	45	wnw.	9	4	.....	.....	4	.....	.....	c	0	.....	M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	29.88	759.0	29.98	761.6	63.1	17.3	74	se.	4.0	1.8	.....	.....	0	.....	.....	0	0	.....	Antonio Rave, Director.
Bilbao, Met. Obs'y	29.84	758.0	29.90	759.5	70.3	24.6	45	nw.	3.4	1.5	.....	2	0	nw.	.....	0	0	.....	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.03	686.5	29.91	759.8	65.5	18.6	46	sw.	8.7	3.9	.....	.....	0	.....	.....	0.059	1.5	clear	Domingo Martin.
Madrid, Royal Obs'y	27.80	706.0	29.95	760.6	74.1	23.4	28	sw.	15.4	6.9	.....	0	0	.....	.....	0	0	clear	The Staff.
Murcia, Met. Obs'y	29.85	758.1	29.99	761.7	78.8	26.0	51	ne.	5.8	2.6	.....	0	0	.....	.....	0	0	clear	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.07	738.3	29.97	761.3	54.0	12.2	96	sw.	17.4	7.8	.....	.....	10	.....	.....	0.071	1.8	drizzling	R. Gil Vallanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I	29.93	760.3	30.00	762.0	75.2	24.0	76	ese.	4.0	1.8	.....	0	0	.....	.....	0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.81	757.1	29.87	758.6	85.8	29.9	66	ese.	5.3	2.4	.....	3 c	4 ck	.....	e.	0	0	fair	F. Faura, S. J.
San Fernando, Naval Obs'y	29.93	760.3	30.03	762.7	74.3	23.5	62	calm	0	0	.....	0	0	.....	.....	0	0	.....	Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	29.94	760.4	30.03	762.7	77.0	25.0	89	se.	1.1	0.5	.....	0	2 k	.....	se.	0	0	clear	Manuel Maeu.
Tuguegarao, Philippine Id's	29.71	754.6	29.85	758.2	82.0	27.8	75	nnw.	7.4	3.3	.....	0	2 ks	.....	wnw.	0	0	fair	José L. Yrastorza.
SWEDISH																			
Haparanda	30.03	762.8	30.07	763.8	40.6	4.8	84	ne.	.....	.....	2	.....	10	.....	.....	0	0	.....	
Umea	29.97	761.2	30.02	762.5	39.2	4.0	84	nne	.....	.....	2	.....	10	.....	.....	0	0	.....	
Hernosand	29.86	758.4	29.91	759.7	34.5	1.4	96	ne.	.....	.....	4	.....	10	.....	.....	0	0	.....	
Stockholm	29.47	748.4	29.64	752.9	54.0	12.2	73	ene.	.....	.....	6	.....	1	.....	.....	0.142	3.6	.....	
Wisby	29.54	750.3	29.60	751.8	65.5	18.6	55	s.	.....	.....	4	.....	0	.....	.....	0.272	6.9	.....	
Sub-series.																			
Upsala	29.54	750.2	29.62	752.4	54.1	12.3	77	e.	12.5	5.6	.....	.....	7	.....	ese.	0.126	3.2	.....	S. G. Fineman.
SWISS.																			
Geneva	28.47	723.2	29.88	759.0	57.7	14.3	47	w.	.....	.....	3	.....	.....	.....	.....	0	0	clear	The Observatory

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
TURKISH.																			
Constantinople	.....	.....	29.74	755.5	60.8	16.0	69	sw.	27	12.0	.....	.....	10	.....	sw.	0.197	5.0	.....	The Observatory.
Valona	.....	.....	29.86	758.4	63.7	17.6	.....	w.	.....	.....	1	.....	5	.....	.....	.....	.....	rainy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	29.90	759.5	71.1	21.7	69	nw.	.....	.....	1	0	0	...	.....	0	0	.....	Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	29.98	761.5	30.06	763.5	49	9.4	56	nw.	6	2.7	.....	.....	10 s	.....	nw.	0.14	3.6	cloudy	J. O. Barnes.
Alpena, Michigan	29.42	747.3	30.12	765.0	36	2.2	69	nw.	10	4.5	.....	4 k	3 s	w.	nw.	0	0	fair	Jas. J. Fitzgerald.
Atlanta, Georgia	28.83	732.3	30.02	762.5	61.0	16.1	93	w.	4	1.8	.....	.....	10 s	.....	calm	0.95	24.1	cloudy	H. Hall.
Atlantic City, New Jersey	30.04	763.0	30.06	763.5	49	9.4	86	s.	3	1.3	.....	.....	10 s	.....	.....	0.04	1.0	cloudy	Jas. M. Watson.
Augusta, Georgia	29.84	757.9	30.03	762.7	64	17.8	92	calm	0	0	.....	.....	10 n	.....	.....	0.10	2.5	light rain	John Healy.
Baltimore, Maryland	30.04	763.0	30.08	764.0	55	12.8	74	n.	1	0.4	.....	.....	10 s	.....	w.	0.01	0.3	cloudy	Robert Seyboth.
Barnegat, New Jersey	30.04	763.0	30.06	763.5	49.0	9.4	89	sw.	3	1.3	.....	.....	10 s	.....	.....	0.03	0.8	cloudy	Chas. F. Merritt.
Bismarck, Dakota	28.63	727.2	30.50	774.7	33	0.6	81	ne.	3	1.3	.....	1 k	0	w.	.....	0	0	clear	Cyrus Cramer.
Boise City, Idaho	27.37	695.2	30.21	767.3	49.2	9.6	52	w	2	0.9	.....	0	4 s	.....	w.	0	0	fair	B. E. Light.
Boston, Massachusetts	29.85	758.2	30.01	762.2	49.5	9.7	75	w.	10	4.5	.....	4 k	hz.	w.	.....	0.02	0.5	fair	O. B. Cole.
Brownsville, Texas	29.87	758.7	29.92	760.0	74	23.3	97	calm	0	0	.....	10 c	0	.....	.....	0	0	cloudy	J. C. Galloway.
Buffalo, New York	29.33	745.0	30.10	764.5	41.1	5.1	86	s.	12	5.4	.....	0	hz.	.....	.....	inap.	inap.	clear	Wm. Finn.
Burlington, Vermont	29.67	753.6	29.97	761.2	42.0	5.6	89	calm	0	0	.....	.....	10 n	.....	n.	0.23	5.8	light rain	G. U. Schaeffer.
Cairo, Illinois	29.81	757.2	30.22	767.6	52.6	11.4	82	n.	17	7.6	.....	.....	10 s	.....	n.	0	0	cloudy	W. H. Ray.
Campo, California	27.41	696.2	29.99	761.7	39.7	4.3	82	se.	3	1.3	.....	2 c	0	.....	.....	0	0	clear	W. H. Clendenon.
Camp Thomas, Arizona	27.15	689.6	29.88	758.9	51.5	10.8	39	calm	.....	.....	0	0	0	.....	.....	0	0	clear	J. T. Fitzgerald.
Cape Henry, Virginia	30.01	762.2	30.03	762.7	58	14.4	86	s.	5	2.2	.....	.....	10 s	.....	.....	0	0	cloudy	J. E. Lanouette.
Cape May, New Jersey	30.11	764.8	30.14	765.5	51	10.6	80	se.	12	5.4	.....	.....	fg	.....	.....	0	0	dense fog	W. Bolten.
Cedar Keys, Florida	29.99	761.7	30.01	762.2	75	23.9	76	e.	10	4.5	.....	3 c	4 k	.....	sw.	0	0	fair	F. W. Mixer.
Champaign, Illinois	29.35	745.5	30.19	766.8	45.5	7.5	75	n.	8	3.6	.....	.....	9 ks	.....	nw.	0	0	cloudy	L. A. Welsh.
Charleston, S. Carolina	29.93	760.2	29.99	761.7	71	21.7	90	sw.	5	2.2	.....	7 ck	3 s	sw.	sw.	0	0	cloudy	J. H. Smith.
Charlotte, N. Carolina	29.10	739.1	29.96	761.0	60.0	15.6	93	s.	2	0.9	.....	.....	10 s	.....	sw.	0.23	5.8	cloudy	D. O. Donoghue.
Chattanooga, Tennessee	29.20	741.7	30.03	762.7	60.5	15.8	74	n.	3	1.3	.....	1 cs	0	calm	.....	0.02	0.5	clear	B. L. Goulding.
Cheyenne, Wyoming	24.37	619.0	30.37	771.4	28.8	— 1.8	80	n.	4	1.8	.....	.....	10 n	.....	.....	0.03	0.8	light snow	E. McGovern.
Chicago, Illinois	29.45	748.0	30.18	766.6	43.9	6.6	76	nw.	5	2.2	.....	10 k	0	nw.	.....	0	0	cloudy	J. Mitchell.
Chincoteague, Virginia	30.02	762.5	30.04	763.0	54	12.2	86	sw.	2	0.9	.....	.....	10 s	.....	.....	0	0	cloudy	V. P. Temple.
Cincinnati, Ohio	29.46	748.3	30.13	765.3	50	10.0	64	n.	7	3.1	.....	5 k	0	nw.	.....	0	0	fair	R. B. Watkins.
Cleveland, Ohio	29.36	745.7	30.12	765.0	44	6.7	75	ne.	4	1.8	.....	.....	10 s	.....	nw.	0	0	cloudy	J. B. Newlin.
Coleman City, Texas	28.38	720.8	30.20	767.1	54	12.2	74	ne.	24	10.7	.....	.....	10 s	.....	ne.	0	0	cloudy	L. Dorman.
Columbus, Ohio	29.24	742.7	30.11	764.8	47	8.3	63	n.	5	2.2	.....	6 ck	4 ks	w.	nw.	0	0	cloudy	D. Cuthbertson.
Concho, Texas	28.24	717.3	30.18	766.6	55	12.8	65	n.	22	9.8	.....	.....	10 s	.....	n.	0	0	cloudy	W. W. McConihe.
Davenport, Iowa	29.55	750.6	30.22	767.6	46	7.8	68	nw.	2	0.9	.....	5 k	c	nw.	.....	0	0	fair	R. R. Martin.
Dayton, Washington T'y	28.55	725.2	30.30	769.6	34.7	1.5	70	ne.	2	0.9	.....	0	0	.....	.....	0	0	clear	H. Clifford.
Deadwood, Dakota	25.74	653.8	30.43	772.9	26	— 3.3	88	sw.	3	1.3	.....	4 k	0	w.	.....	0.50	12.7	fair	G. W. Scott.
Decatur, Texas	.....	.....	.....	.....	65	18.3	54	ne.	23	10.3	.....	0	5 s	.....	ne.	0	0	fair	D. J. Carr.
Delaware Breakwater, Del.	30.02	762.5	30.04	763.0	50	10.0	93	se.	6	2.7	.....	.....	10 s	.....	sw.	0	0	cloudy	A. Schneider.
Denison, Texas	29.39	746.5	30.19	766.8	55.5	13.1	80	n.	9	4.0	.....	.....	10 s	.....	.....	0.48	12.2	cloudy	J. McGlone.
Denver, Colorado	25.12	638.0	30.39	771.9	31.0	— 0.6	92	n.	9	4.0	.....	.....	10 n	.....	calm	0.33	8.4	light snow	F. M. Neal.
Des Moines, Iowa	29.39	746.5	30.32	770.1	39	3.9	69	nw.	12	5.4	.....	0	0	.....	.....	0	0	clear	F. W. Conrad.
Detroit, Michigan	29.41	747.0	30.14	765.5	44.0	6.7	76	nw.	3	1.3	.....	1 cs	0	calm	.....	0	0	clear	C. F. R. Wappenhans.
Dodge City, Kansas	27.81	706.4	30.45	773.4	43	6.1	76	n.	10	4.5	.....	.....	10 s	.....	.....	0.24	6.1	cloudy	E. A. Thomas.
Dubuque, Iowa	29.47	748.5	30.20	767.1	41.2	5.1	73	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. Harvey Smith.
Duluth, Minnesota	29.54	750.3	30.26	768.6	34	1.1	60	nw.	17	7.6	.....	0	0	.....	.....	0	0	clear	N. B. Conger.
Eagle Pass, Texas	29.24	742.7	30.05	763.3	73.0	22.8	71	ne.	13	5.8	.....	.....	10 s	.....	.....	0	0	cloudy	F. Belford.
Eagle Rock, Idaho	25.61	650.5	30.33	770.4	26	— 3.3	80	n.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. M. Clifford.
Eastport, Maine	29.96	761.0	30.03	762.7	37.5	3.1	85	sw.	5	2.2	.....	.....	10 s	.....	sw.	0.15	3.8	cloudy	J. H. Melton.
El Paso, Texas	26.34	669.0	30.08	764.0	60	15.6	72	e.	10	4.5	.....	10 ck	0	e.	.....	0	0	cloudy	J. F. Marshall.
Erie, Pennsylvania	29.37	746.0	30.12	765.0	43	6.1	74	sw.	1	0.4	.....	sk.	0	.....	.....	0.01	0.3	clear	R. H. Paxton.
Escanaba, Michigan	29.47	748.5	30.16	766.1	35	1.7	79	n.	5	2.2	.....	.....	10 s	.....	n.	0	0	cloudy	C. Dill.
Florence, Arizona	28.36	720.3	29.86	758.4	55.0	12.8	40	sw.	2	0.9	.....	0	0	.....	.....	0	0	clear	R. R. Herman.
Fort Apache, Arizona	25.08	637.0	30.00	762.0	38	3.3	52	ne.	4	1.8	.....	0	0	.....	.....	0	0	clear	W. C. Barnes.
Fort Assinnaboine, Montana	27.63	701.8	30.53	775.4	35	1.7	82	sw.	2	0.9	.....	2 k	0	sw.	.....	0	0	clear	B. O. Lenoir.
Fort Bennett, Dakota	28.69	728.7	30.33	770.4	35	1.7	82	calm	0	0	.....	0	0	.....	.....	0	0	clear	T. Gibson.
Fort Benton, Montana	27.65	702.3	30.51	774.9	38	3.3	58	calm	0	0	.....	9 cs	0	calm	.....	inap.	inap.	cloudy	S. Wheaton.
Fort Buford, Dakota	28.48	723.4	30.56	776.2	31	— 0.6	71	n.	2	0.9	.....	5 k	0	nw.	.....	0	0	fair	A. H. Bell.
Fort Custer, Montana	27.29	693.2	30.47	773.9	27	— 2.8	88	s.	6	2.7	.....	0	5 s	.....	calm	inap.	inap.	fair	V. Verge.
Fort Davis, Texas	25.28	642.1	30.07	763.8	49	9.4	93	n.	16	7.2	.....	.....	fg.	.....	.....	0	0	dense fog	J. Williams.
Fort Elliott, Texas	27.53	699.2	30.31	769.9	43	6.1	47	ne.	20	8.9	.....	.....	10 s	.....	ne.	inap.	inap.	cloudy	W. J. Cundall.
Fort Gibson, Indian T'y	29.71	754.6	30.29	769.4	52.0	11.1	72	n.	8	3.6	.....	9 cs	0	ne.	.....	0.12	3.0	cloudy	J. B. Campbell.
Fort Grant, Arizona	25.23	640.8	29.96	761.0	65	18.3	40	e.	8	3.6	.....	0	0	.....	.....	0	0	clear	T. J. Macgowan.
Fort Keogh, Montana	27.95	709.9	30.49	774.4	33	0.6	62	w.	6	2.7	.....	6 c	0	sw.	.....	inap.	inap.	fair	W. B. Stockman.
Fort Macon, North Carolina	30.02	762.5	30.03	762.7	65	18.3	93	se.	11	4.9	.....	5 cs	hz	calm	calm	0	0	fair	L. Leonardy.
Fort McKavett, Texas	27.90	708.6	30.16	766.1	59	15.0	78	n.	16	7.2	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	J. E. Thatcher.
Fort Missoula, Montana	27.11	688.6	30.42	772.7	27	— 2.8	77	sw.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. H. Jones.
Fort St. Michaels, Alaska	30.59	777.0	30.62	777.7	25	— 3.9	87	ne.	3	1.3	.....	0	0	.....	.....	0	0	clear	A. P. Leavitt.
Fort Shaw, Montana	26.80	680.7	30.47	773.9	22	— 5.6	73	w.	7	3.1	.....	0	0	.....	.....	0	0	clear	A. L. Mathews.
Fort Sill, Indian Territory	29.05	737.9	30.29	769.4	48.5	9.2	67	n.	24	10.7	.....	10 cs	0	w.	.....	0.36	9.1	cloudy	T. Cleary.
Fort Stevenson, Dakota	28.59	726.2	30.49	774.4	30	— 1.1	88	calm	0	0	.....	0	0	.....	.....	0	0	clear	W. Burrows.
Fort Verde, Arizona	.....	.....	.....	.....	53.2	11.8	33	sw.	.....	.....	1	0	0	.....	.....	0	0	clear	D. Brooks.
Fort Washakie, Wyoming	24.82	630.4	.....	.....	29.2	— 1.6	92	se.	1	0.4	.....	.....	10 n	.....	.....	0.09	2.3	light snow	T. M. Ambler.
Fredericksburg, Texas	28.33	719.6	30.05	763.3	66	18.9	90	ne.	8	3.6	.....	.....	10 s	.....	.....	0.07	1.8	cloudy	H. S. Miles.
Galveston, Texas	29.94	760.5	29.98	761.5	71	21.7	90	e.	15	6.7	.....	.....	10 ks	.....	e.	0.15	3.8	threatening	E. O'C. MacInernev.
Grand Haven, Michigan	29.47	748.5	30.16	766.1	39.0	3.9	89	ne.	2	0.9	.....	.....	10 s	.....	w.	0	0	cloudy	W. A. Reid.
Hatteras, North Carolina	30.04	763.0	30.06	763.5	63	17.2	93	e.	6	2.7	.....	5 k	4 k	.....	e.	0	0	cloudy	R. M. Crawford.
Helena, Montana	26.20	665.5	30.46	773.7	27	— 2.8	67	calm	0	0	.....	0	0	.....	.....	0	0	clear	N. C. Smith.
Henrietta, Texas	29.32	744.7	30.35	770.9	55.0	12.8	62	ne.	16	7.2	.....	0	6 s	.....	.....	0.05	1.3	fair	J. W. Byram.
Huron, Dakota	29.02	737.1	30.47	773.9	32.2	0.1	54	nw.	4	1.8	.....	0	0	.....	.....	0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.31	744.5	30.13	765.3	45.5	7.5	62	n.	5	2.2	.....	0	9 s	.....	w.	0	0	cloudy	O. Schutze
Indianola, Texas	29.93	760.2	29.96	761.0	76.8	24.9	94	se.	4	1.8	.....	3 cs	5 ks	sw.	s.	0	0	cloudy	I. A. Reed.
Jacksboro, Texas	29.07	738.4	30.25	768.3	52	11.1	80	ne.	11	4.9	.....	0	8 ks	.....	ne.	0	0	cloudy	J. P. Sherry.
Jacksonville, Florida	29.96	761.0	30.00	762.0	71	21.7	90	ne.	4	1.8	.....	2 cs	0	.....	.....	0	0	clear	J. W. Smith.
Keokuk, Iowa	29.57	751.1	30.24	768.1	47.0	8.3	68	nw.	1	0.4	.....	0	0	.....	.....	0	0	clear	F. Z. Gosewisch
Key West, Florida	30.01	762.2	30.03	762.7	76.0	24.4	76	se.	4	1.8	.....	0	3 k;ks	.....	se.	0	0	clear	L. M. Melbourne.
Kittyhawk, North Carolina	30.04	763.0	30.06	763.5	57	13.9	93	s.	9	4.0	.....	2 c	3 k	.....	.....	0	0	fair	E. A. Beals.
Knoxville, Tennessee	29.01	736.8	30.05	763.3	58	14.4	74	n.	3	1.3	.....	5 ck	2 s	nw.	.....	0.04	1.0	fair	J. A. Cody.
La Crosse, Wisconsin	29.39	746.5	30.19	766.8	46	7.8	61	nw.	2	0.9	.....	0	0	.....	.....	0	0	clear	S. C. Emery.
La Mesilla, New Mexico	26.16	664.5	30.04	763.0	59.0	15.0	52	se.	4	1.8	...	4 ck	4 s	w.	calm	0	0	cloudy	N. D. Lane.
Leavenworth, Kansas	29.46	748.3	30.37	771.4	42	5.6	74	nw.	3	1.3	.....	6 cs	0	w.	.....	0	0	fair	A. W. Browne.
Lewiston, Idaho	29.55	750.6	30.40	772.1	38	3.3	76	e.	1	0.4	.....	0	0	.....	.....	0	0	clear	W. Blake.
Little Rock, Arkansas	29.82	757.4	30.14	765.5	60	15.6	81	n.	8	3.6	.....	0	0	.....	.....	0	0	clear	W. U. Simmons.
Los Angeles, California	29.64	752.8	30.04	763.0	51.2	10.7	93	se.	1	0.4	.....	0	fg.	.....	calm	1.11	28.2	clear	E. F. Kubel.
Louisville, Kentucky	29.53	750.0	30.10	764.5	50	10.0	63	n.	10	4.5	.....	6ck;cs	0	w.	.....	0	0	fair	H. O. Smyth.
Lynchburg, Virginia	29.35	745.5	30.06	763.5	57.5	14.2	77	sw.	1	0.4	.....	.....	10 n	.....	.....	0.06	1.5	light rain	W. R. Bushby.
Madison, Wisconsin	29.15	740.4	30.19	766.8	42	5.6	74	w.	5	2.2	.....	5 cs	0	nw.	.....	0	0	fair	C. A. Shaw.
Marquette, Michigan	29.44	747.8	30.19	766.8	36	2.2	69	nw.	13	5.8	.....	9 k	0	nw.	.....	0	0	cloudy	J. Gilligan.
Mason, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	P. M. Wilson.
Memphis, Tennessee	29.78	756.4	30.12	765.0	57	13.9	69	n.	8	3.6	.....	0	7 s	.....	nw.	0.40	10.2	fair	D. T. Flannery.
Milwaukee, Wisconsin	29.41	747.0	30.18	766.6	45	7.2	60	w.	5	2.2	.....	8 ck	0	w.	.....	0	0	cloudy	W. Line.
Mobile, Alabama	29.96	761.0	30.00	762.0	70	21.1	87	w.	2	0.9	.....	2 cs	3 ks	nw.	.....	0.30	7.6	fair	J. D. Paxton.

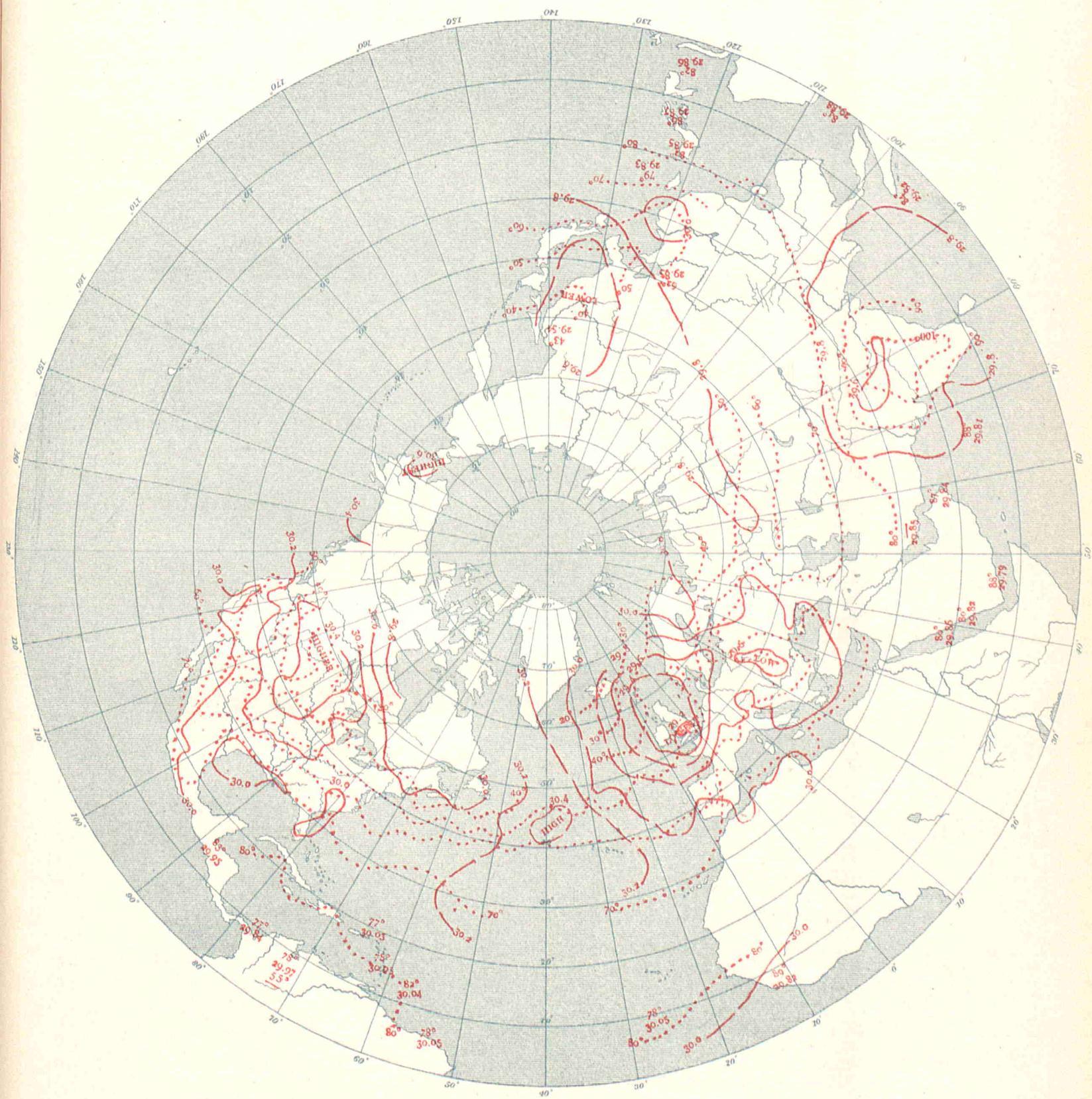
STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Montgomery, Alabama	29.78	756.4	30.01	762.2	63.6	17.6	95	n.	2	0.9			10 n		w.	0.04	1.0	light rain	J. B. McLaughlin.
Moorhead, Minnesota	29.41	747.0	30.44	773.2	29	— 1.7	77	n.	16	7.2		0	0			0	0	clear	H. Bessant.
Morgantown, W. Virginia	29.04	737.6	30.08	764.0	51.5	10.8	69	calm	0	0		0	3 k			0	0	clear	G. C. Lewis.
Mt. Washington, N. H.	23.54	597.9	29.95	760.7	23.0	— 5.0	90	nw.	49	21.9			10n;fg		nw.	0.60	15.2	light snow	J. G. Linsley.
Nashville, Tennessee	29.52	749.8	30.06	763.5	57.5	14.2	83	w.	4	1.8		0	6 ks		w.	0.01	0.3	fair	L. A. Jesunofsky.
New Haven, Connecticut	29.92	760.0	30.04	763.0	46	7.8	83	sw.	2	0.9		9 c	sk.	sw.		0.05	1.3	cloudy	J. H. Sherman.
New London, Connecticut	29.99	761.7	30.04	763.0	48	8.9	71	w.	3	1.3		3 c	0	calm		0.03	0.8	fair	J. G. Lynch.
New Orleans, Louisiana	29.93	760.2	29.99	761.7	75.5	24.2	76	n.	4	1.8		7 c	sk.	w.		0	0	fair	S. Dunne.
Newport, Rhode Island	29.99	761.7	30.04	763.0	47.1	8.4	89	sw.	5	2.2			10 s		w.	0.02	0.5	cloudy	W. McGillivray.
New River, N. Carolina					68	20.0	84	e.			1	2 c	3 ks			0	0	fair	C. C. Corbin.
New Shoreham, Rhode Id.	30.01	762.2	30.04	763.0	46.0	7.8	83	sw.	15	6.7			10 s		sw.	0.03	0.8	cloudy	W. Davis.
New York, New York	29.90	759.4	30.08	764.0	49	9.4	71	nw.	4	1.8		4 cs	3 s	w.		0.03	0.8	fair	E. B. Garriott.
Norfolk, Virginia	29.99	761.7	30.02	762.5	59	15.0	87	s.	5	2.2		9 cs	0	w.		0	0	cloudy	J. T. Elker.
North Platte, Nebraska	27.50	698.5	30.46	773.7	39.6	4.2	79	nw.	10	4.5		0	2 s			inap.	inap.	clear	E. F. Brady.
Olympia, Washington T'y	30.17	766.3	30.21	767.3	39.5	4.2	86	calm	0	0		0	0			0	0	clear	J. Dascomb.
Omaha, Nebraska	29.21	741.9	30.42	772.7	40.0	4.4	62	nw.	4	1.8		0	0			0	0	clear	A. Pollak.
Ooglaamie, Pt. Barrow, Alas.	30.54	775.7	30.56	776.2	16.0	— 8.9	97	ssw.	12	5.4		0	2 s			0	0	clear	P. H. Ray.
Oswego, New York	29.69	754.1	30.03	762.7	43.0	6.1	77	w.	10	4.5		0	0			0.57	14.5	clear	S. W. Beall.
Palestine, Texas	29.54	750.3	30.10	764.5	66.0	18.9	90	ne.	12	5.4			10 ks		ne.	0.56	14.2	cloudy	L. M. Pindell.
Pensacola, Florida	29.97	761.2	30.00	762.0	71.0	21.7	90	calm	0	0		3 cs	6 s	w.	w	0	0	cloudy	M. McGauran.
Philadelphia, Pa	29.97	761.2	30.07	763.8	54	12.2	66	n.	9	4.0		3 ck	5 k	n.	nw.	0.20	5.1	cloudy	T. F. Townsend.
Pike's Peak, Colorado	17.82	452.6	30.10	764.5	14	—10.0	100	sw.	24	10.7			fg.			0.26	6.6	dense fog	L. M. Dey.
Ploche, Nevada	24.18	614.2	30.17	766.3	43	6.1	51	nw.	5	2.2		0	0			0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.27	743.4	30.10	764.5	45.8	7.7	68	n.	4	1.8		3 ck	0	w.		0.02	0.5	clear	J. H. Bryce.
Port Eads, Louisiana	30.01	762.2	30.02	762.5	73.5	23.1	94	s.	5	2.2		0	2 ks			0	0	clear	H. G. Christian.
Port Huron, Michigan	29.40	746.7	30.10	764.5	43.2	6.2	68	nw.	1	0.4		0	0			0	0	clear	W. O. Bailey.
Portland, Maine	29.91	759.7	29.96	761.0	44.0	6.7	83	w.	5	2.2			fg; sk		w.	0.04	1.0	light fog	D. C. Murphy.
Portland, Oregon	30.07	763.8	30.14	765 5	58.0	14.4	26	ne.	2	0.9		9 cs	0	n.		0	0	cloudy	M. L. Hearne.
Portsmouth, N. Carolina					67	19.4	73	se.	6	2.7		10 c	hz.	calm	calm	0	0	cloudy	F. P. Chaffee.
Prescott, Arizona	24.82	630.4	30.04	763.0	42	5.6	63	s.	3	1.3		0	0			0	0	clear	J. McN. Wright.
Provincetown, Mass	29.99	761.7	30.02	762.5	44	6.7	93	sw.	6	2.7			10 s			0.03	0.8	cloudy	P. T. Jenkins.
Punta Rassa, Florida	29.99	761.7	30.00	762.0	72.5	22.5	76	e.	7	3.1		4 c	1 k	calm	calm	0	0	fair	W. J. Evans.
Red Bluff, California	29.62	752.3	29.99	761.7	55.2	12.9	69	nw.	5	2.2		0	0			0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.73	755.1	29.97	761.2	77	25.0	85	se.	5	2.2			10 s		se.	0	0	cloudy	W. H. Taylor.
Rochester, New York	29.38	746.2	30.07	763.8	41	5.0	73	w.	10	4.5		0	hz.			0.46	11.7	clear	A. T. Sherwood.
Roseburg, Oregon	29.52	749.8	30.08	764.0	46.3	7.9	91	calm	0	0		2 c	0	w.		0	0	clear	J. J. Nanry.
Sacramento, California	29.90	759.4	29.98	761.5	57.4	14.1	74	se.	4	1.8		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.64	752.8	30.25	768.3	48.0	8.9	77	n.	7	3.1		2 c	0	sw.		0	0	clear	J. H. Webber.
St. Paul, Minnesota	29.37	746.0	30.26	768.6	37.0	2.8	61	nw.	7	3.1		0	0			0	0	clear	P. F. Lyons.
St. Vincent, Minnesota	29.55	750.6	30.46	773.7	29	— 1.7	88	w.	9	4.0		0	0			0	0	clear	G. Kingsbury.
Salt Lake City, Utah	25.86	656.8	30.23	767.8	45	7.2	49	nw.	3	1.3		0	0			0	0	clear	J. Craig.
San Antonio, Texas	29.30	744.2	30.00	762.0	71.1	21.7	84	n.	8	3.6			10 ks			inap.	inap.	cloudy	E. Lane.
San Diego, California	29.90	759.4	29.97	761.2	56.4	13.6	85	ne.	2	0.9			fg.			0	0	dense fog	A. U. Dobbins.
Sandusky, Ohio	29.43	747.5	30.13	765.3	45	7.2	68	n.	11	4.9		0	5 ks		n.	0	0	fair	M. H. Perry.
Sandy Hook, New Jersey	30.04	763.0	30.08	764.0	49.0	9.4	86	nw.	6	2.7		8 ck	hz	nw.	calm	0.04	1.0	cloudy	B. A. Blundon.
San Francisco, California	29.96	761.0	30.03	762.7	51	10.6	90	sw.	15	6.7		0	fg.		w.	0	0	clear	N. Gorom.
Santa Fé, New Mexico	23.36	593.3	30.12	765.0	48	8.9	61	se.	7	3.1		0	8 k		s.	0	0	cloudy	H. U. Jones.
Savannah, Georgia	29.92	760.0	30.01	762.2	68	20.0	90	calm	0	0			10ks;fg		s.	0	0	cloudy	H. W. Ford.
Shreveport, Louisiana	29.84	757.9	30.08	764.0	66	18.9	90	ne.	7	3.1		0	9 k		ne.	0.02	0.5	cloudy	E. N. Meekins.
Silver City, New Mexico	24.34	618.2	30.02	762.5	43	6.1	51	s.	1	0.4		0	0			0	0	clear	J. B. Wallace.
Sitka, Alaska	30.35	770.9	30.42	772.7	41.2	5.1	52	calm	0	0		0	0			0	0	clear	J. J. McLean.
Smithville, North Carolina	29.98	761.5	30.02	762.5	66	18.9	90	s.	12	5.4		9 ck	0	w.		0	0	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	28.35	720.1	30.41	772.4	35	1.7	82	ne.	2	0.9		2 cs	0			0	0	clear	D. Moore.
Springfield, Illinois	29.35	745.5	30.25	768.3	48.5	9.2	63	nw.	1	0.4		0	0			0.12	3.0	clear	T. B. Jennings.
Springfield, Massachusetts	29.90	759.4	30.03	762 7	52.2	11.2	68	w.	8	3.6		7 k	0	w.		0.05	1.3	fair	T. S. Outram.
Springfield, Mo	e8 84	732.5	30.36	771.1	46	7.8	83	n.	8	3.6		0	2 s		n.	0.40	10.2	clear	J. B. Marbury.
Stockton, Texas	27.14	689.3	30.17	766.3	53.0	11.7	100	ne.	24	10.7			10 n		ne.	0.03	0.8	light rain	J. O'Dowd.
Thatcher's Island, Mass	29.96	761.0	30.01	762.2	43.3	6.3	88	s.	7	3.1		5 k	hz.	sw.		inap.	inap.	fair	G. Liebmann.
Toledo, Ohio	29.42	747.3	30.13	765.3	44	6.7	76	nw.	2	0.9		4 c	0	sw.		0	0	fair	A. Buell.
Tucson, Arizona	27.50	698.5	29.89	759.2	56	13.3	37	se.	5	2.2		0	0			0	0	clear	J. L. Whiteside.
Umatilla, Oregon	30.00	762.0	30.38	771.6	43	6.1	71	calm	0	0		1 c	0			0	0	clear	J. Daly.
Uvalde, Texas	29.06	738.1	30.03	762.7	72	22.2	76	ne.	6	2.7			10 s		e.	0	0	cloudy	E. C. Imlay.
Vicksburg, Mississippi	29.78	756.4	30.04	763.0	66	18.9	90	n.	3	1.3			10 s		n.	0.01	0.3	threatening	T. J. Kenan.
Visalia, California	29.60	751.8	29.97	761.2	55.5	13.1	74	nw.	2	0.9		0	0			0	0	clear	J. T. Cochran.
Washington, D. C.	29.96	761.0	30.08	764.0	52.5	11.4	86	n.	2	0.9			10s;sk		w.	0	0	cloudy	B. M. Pursell.
West Las Animas, Colorado	26.44	671.6	30.40	772.1	37	2.8	92	ne.	6	2.7			10 n		e.	0.76	19.3	light rain	J. Grover.
Wickenburg, Arizona					55	12.8	65	calm			0	0	0			0	0	clear	H. A. Kremp.
Williamsport, Pa	29.49	749.0	30.10	764.5	40.5	4.7	82	w.	5	2.2		0	hz.			inap.	inap.	clear	B. F. Hough.
Wilmington, N. Carolina	29.96	761.0	30.02	762.5	67	19.4	84	s.	4	1.8		10 k	0	w.		0	0	cloudy	E. W. McGann.
Winnemucca, Nevada	25.78	654.8	30.18	766.6	43	6.1	60	ne.	14	6.3		0	0			0	0	clear	J. R. Williams.
Yankton, Dakota	29.09	738.9	30.43	772.9	33	0.6	68	nw.	9	4.0		0	0			0	0	clear	J. H. Atfield.
Yuma, Arizona	29.64	752.8	29.79	756.7	64.3	17.9	57	n.	1	0.4		0	0			0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.02	559.3			55.0	12.8	74	calm	0	0		2 k	5 s	ne.		0.02	0.5	fair	Joaquin Gomez.
Bridgetown, Barbados, W.I.	30.03	762.7	30.04	763.0	82	27.8	78	e.				5 k	5 ks	e.	e.	0	0	fair	J. A. Racker.
Buenaventura, U. S. C.																			J. I. Plume.
Guadeloupe, W. I.	29.93	760.2	29.95	760.7	78	25.6	79	e.				6 k	2 ks			0	0		B. Bigar.
Havana, Cuba, W. I.	29.08	761.5	30.03	762.7	78	25.6	77	se.	1.2	0.5		1 cs	0			0	0	clear	A. Van Caneghem.
Kingston, Jamaica, W. I.	29.99	761.7	30.00	762.0	79.3	26.3	74	calm	0	0		0	0			0	0		Robert Johnston.
Navassa, W. I.																			F. M. Everett.
Paramaribo, S. A.	30.05	763.3	30.05	763.3	78	25.6	91	e.			2	5 k	8 ps	e.		0.800	20.3		Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.51	749.5	29.97	761.2	78	25.6	84	calm			0		10		calm	0.16	4.1	raining	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.							92	ne.			3	0	0			0	0	clear	Earl Flint.
Santiago de Cuba, W. I.	29.98	761.5	30.00	762.0	78	25.6	69	n.	2.4	1.1		0	0			0	0	clear	Robert Mason.
York Factory, B. A.	29.60	751.8	29.66	753.4	23.0	— 5.0	93	ne.	14	6.3		2 c	2 s	ne.	ne.	0	0	fair	W. Wood.

STATIONS AND VESSELS.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
British Naval.																		
H. M. S. Alert, S. 9° 29′, E. 50° 58′	29.89	759.2	82.2	27.9	75	se.			3–4		3							squally.
H. M. S. Alexandra, Malta Mediterranean	29.95	760.7	68	20.0	64	wsw.			5–6		1							squally.
H. M. S. Amethyst, N. 44° 00′, W. 10° 26′	29.87	758.7	55	12.8	87	w.			6		2	wnw.				6	wnw.	d. clouds.
H. M. S. Bacchante, Beirut Bay, Palestine	29.88	758.9	76	24.4	81	calm			0		0							blue sky.
H. M. S. Champion, S. 18° 55′, W. 83° 50′			68	20.0	84	ese.			4		5	calm				4	ese.	d. clouds.
H. M. S. Cleopatra, N. 6° 09′, E. 93° 42′	29.82	757.4	83.5	28.6	95	nw.			1–2		4	s.				3	s.	d. clouds.
H. M. S. Comus, N. 4° 53′, E. 122° 33′	29.86	758.4	82	27.8	95	wnw.			1		1							blue sky.
H. M. S. Dido, N. 18° 26′, W. 66° 00′	30.06	763.5	77	25.0		e.			1		4	ene.						misty.
H. M. S. Dryad, N. 28° 59′, E. 50° 50′	29.75	755.6				ne.			2–4		4	nw.				2	nw.	d. clouds.
H. M. S. Dwarf, S. 32° 18′, W. 58° 25′	29.92	760.0	60	15.6	100	se.			1		10					1	se.	thnd'rstorm.
H. M. S. Fantome, N. 20° 27′, W. 71° 39′	30.04	763.0	80	26.7		e.			1		6	calm				1	e.	d. clouds.
H. M. S. Fawn, N. 12° 45′, E. 45° 00′	29.79	756.7	87.5	30.8	55	e.			1		1							blue sky.
H. M. S. Gannet, S. 29° 56′, W. 71° 20′	30.01	762.2	57	13.9	87	ene.			2		10							misty.
H. M. S. Garnet, Colonia, Uruguay	30.10	764.5	57	13.9	81	s.			5		8							squally.
H. M. S. Inconstant, Simon's Bay, Cape Colony	29.98	761.5	66	18.9	94	nnw.			2		7	n.						d. clouds.
H. M. S. Iron Duke, N. 23° 40′ E. 122° 45′	29.83	757.7	79	26.1	95	ese.			1		4	se.				3	se.	d. clouds.
H. M. S. Lark, S. 8° 48′, E. 159° 03′	29.88	758.9	84.3	29.1		nnw.			2		6					2	e.	d. clouds.
H. M. S. Magpie, N. 35° 23′, E. 140° 52′	29.77	756.1	64.2	17.9	83	se.			2		7	s.				4	sse.	d. clouds.
H. M. S. Malabar, N. 36° 28′, W. 7° 44′	30.01	762.2	64	17.8	89	wnw.			2		2	wnw.				5	wnw.	d. clouds.
H. M. S. Nelson, Sydney, N. S. W.	29.75	755.6	68	20.0	84	calm			0		0							misty.
H. M. S. Northampton, Bermuda, W. I.	30.09	764.3	70	21.1	82	calm			0		2							d. clouds.
H. M. S. Orontes, N 32° 17′ W. 52° 34′	30.26	768.6	68.5	20.3	96	nnw.			1		8					2	nnw.	d. clouds.
H. M. S. Pegasus, N. 1° 17′, E. 103° 52′	29.88	758.9	84	28.9	91	calm			0		7							d clouds.
H. M. S. Phoenix, N. 30° 09′, W. 64° 26′	30.15	765.8	71	21.7	85	nne.			1		2					1	nne.	d. clouds.
H. M. S. Rambler, Elephant Bay, Benguela	29.92	760.0	79	26.1	100	nnw.			2		1							blue sky.
H. M. S. Rocket, Esquimalt, Vancouver Id., B. C.	30.27	768.8	49	9.4		nnw.			2		3							d. clouds.
H. M. S. Serapis, N. 19° 02′ E. 39° 30′	29.82	757.4	80	26.7	78	nne.			2		2	ne.						d. clouds.
H. M. S. Tenedos, N. 44° 15′ W. 63° 35′	30.00	762.0	34	1.1	79	wnw.			4		2					3	wsw.	d. clouds.
H. M. S. Triumph, Coquimbo, Chili	29.94	760.5	56	13.3	93	ne.			1		10	calm						foggy.
H. M. S. Tyne, N. 21° 42′, E. 37° 35′	29.86	758.4	80	26.7	95	nnw.			2–3		0					1	nnw.	blue sky.
H. M. S. Woodlark, Muscat, Arabia.	29.74	755.4	86.5	30.3	55	nw.			2		0					4	nw.	misty.
Portuguese Naval.																		
Rio Lima, Bulama, Senegambia	30.09	764.3	83.3	28.5	78	ne.			3		1					2		d. clouds.
Tamega, Macao, China	29.89	759.1	77.0	25.0	85	sw.			3		8							d. clouds.
Swedish Naval.																		
Balder, N. 42° 29′ W. 38° 08′	30.43	773.0	52.5	11.4	80	ne.			1		5							d. clouds.
United States Naval.																		
Navy Yard, Pensacola, Fla.	29.95	760.7	74	23.3	90	sw.	2	0.9			8		sw.	0.01	0.3			fair.
N. Yard, Portsmouth, N. H.	29.98	761.5	49	9.4	71	sw.	8	3.6			8		sw.	0.5	13.			cloudy.
Naval Hospital, Yokohama, Japan	29.56	750.8	63.5	17.5	80	ssw.			1		2		w.	0	0			clear.
Adams, N. 23° 37′ W. 109° 10	29.61	752.1	76	24.4	95	nw.			1		10					sm'h		cloudy.
Alaska, Panama, Panama	29.84	757.9	77	25.0	91	calm			0		0			0	0	sm'h		clear.
Alert, Kobe Japan*	29.63	752.6	66	18.9	79	calm			0		10		calm	0	0	sm'h		hazy.
Alliance, N. 35° 07′, W. 74° 23′	30.10	764.5	69	20.6	80	se.			3		2			mod.	mod.	sm'h		cloudy.
Ashuelot, Kobe, Japan	29.74	755.4	64	17.8	89	w.			2		5		calm					fair.
Brooklyn, Montevideo, Uruguay	30.04	763.0	56	13.3	94	sse.	15	6.7			10		s;e	0.02	0.5	mod.	s.	cloudy.
Colorado, New York, N. Y.	30.04	763.0	49	9.4	64	nw.	10	4.5			8		nw.	0.02	0.5			cloudy.
Enterprise, Lynnhaven Bay, Va*	30.01	762.2	58	14.4	94	ssw.			2		8		ssw.			sm'h		cloudy.
Essex, S. 22° 49′, W. 38° 43′	30.20	767.1	77	25.0	73	ese.			3		2		se.			mod.	se.	fair.
Franklin, Norfolk, Va.	30.06	763.5	60	15.6	88	s.	2.4	1.1			10			0	0			cloudy.
Galena, Villafranca, France	29.85	758.2	66	18.9	79	ene.			1		2		ene.			sm'h		clear.
Independence, Mare Island, Cal.	29.88	758.9	55	12.8	93	wsw.			2		0			0	0			clear.
Iroquis, Mare Island, Cal	29.99	761.7	57	13.9	75	wsw.			1		0							clear.
Kearsarge, Hampton Roads, Va*†	30.22	767.6	57	13.9	?	ssw.			2		10					sm'h		cloudy.
Lackawana, Casma, Peru*†	30.02	762.5	62	16.7	94	w.			2		10		sw.					foggy.
Lancaster, Villafranca, France*	29.84	757.9	67	19.4	60	se.			1		2		calm	0	0			fair.
Marion, S. 21° 58′, W. 19° 00′	30.23	767.8	74	23.3	86	ese.			4		8		ese.	0	0	mod.	ese.	fair.
Michigan, Erie, Pa.	29.99	761.7	44	6.7	100	sw.			2		0							clear.
Minnesota, Newport, R. I.	30.04	763.0	51	10.6	86	w.	3	1.3			10							overcast.
Monocacy, Kobe, Japan	29.75	755.6	65	18.3	84	wsw.			1		10		calm					cloudy.
New Hampshire, Newport, R. I.	29.99	761.7	45	7.2	92	sw.			3		10					sm'h		cloudy.
Nipsic, Villafranca, France	29.85	758.2	69	20.6	52	ese.			2		2					sm'h		clear.
Onward, Callao, Peru†	30.05	763.3	61	16.1	100	calm			0		10		n.			long	w.	cloudy.
Palos, Kobe, Japan	29.76	755.9	65	18.3	73	wsw.			1		10		w.					cloudy.
Passaic, Washington, D. C.	29.99	761.7	53	11.7	100	calm			0		10							foggy.
Pensacola, Callao, Peru	29.97	761.2	62	16.7	94	calm	0	0			10			0	0	sm'h		cloudy.
Powhatan, Key West, Florida	30.01	762.2	81	27.2	87	se.			2		2							clear.
Portsmouth, N. 45° 27′ W. 30° 21′	30.26	768.6	51	10.6	72	nne.			4		2		n.			mod.	wnw.	clear.
Quinnebaug, Villafranca, France	29.85	758.2	68	20.0	50	calm			0		8?		calm			long	sw.	clear ?
Ranger, Altata Bar, Mexico*	29.80	756.9	70	21.1	85	ene.			1		10		calm	0	0	sm'h		hazy.
Richmond, Kobe, Japan*	29.67	753.6	66	18.9	79	sw.			1		10		sw.	0	0			cloudy.
Saratoga, N. 45° 47′, W. 28° 13′	30.17	766.3	49	9.4	71	ne.			4		5		ne.	0	0	mod.	ne.	fair.
Shenandoah, New York, N. Y*	30.11	764.8	49	9.4	71	nw.			3		8					sm'h		cloudy.
St. Louis, League Island, Pa.	30.28	769.1	52	11.1	86	nne.	2	0.9			10			0.12	3.0			cloudy.
Swatara, Chefoo, China*	29.81	757.2	51	10.6	46	ssw.			2		0					sm'h		clear.
Tennessee, Fort Monroe, Va.	30.07	763.8	59	15.0	?	ssw.	7	3.1			10			0	0			misty.
Vandalia, Hampton Roads, Va†	30.27	768.8	58	14.4	94	s.			2		10		s.					misty.
Wabash, Boston, Mass.	30.01	762.2	48	8.9	85	w.	7	3.1			2		w.	0.06	1.5			fair.
Wachusetts, Sitka, Alaska	30.34	770.6	36	2.2	?	calm			0		0					sm'h		clear.
Wyoming, Port Royal, S. C.	30.00	762.0	66	18.9	100	sw.	6	2.7			10		w.	0	0			foggy.
Yantic, Fort Monroe, Va*†	30.22	767.6	59	15.0	88	ssw.			2		10							misty.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
										Upper.	Lower.	Upper.	Lower.					
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Circassian, N. 52° 35′, W. 22° 45′	30.00	762.0	42	5.6	65	nw.			6		6		nw.	3 h'r	3 h'r	4	nw.	snow & hail
S. S. Polynesian, N. 45° 15′ W. 54° 50′*	29.83	757.7	32	0.0		wsw.			5		2		w.	5 h'r	5 h'r	sm'h	sw.	fair.
S. S. Scandinavian, N. 42° 42′, W. 50° 20′*	30.09	764.3	40	4.4		sse.			4		10		s.	o	o	mod.	sw.	overcast.
S. S. Waldensian, Glasgow, Eng*	29.17	740.9	44	6.7		w			3		5		w.	o	o			fine.
AMERICAN STEAMSHIP COMPANY.																		
S. S. British Crown, Liverpool, Eng†	29.34	745.2	47	8.3		ssw.			6		10		ssw.	14 h'r	14 h'r			heavy rain.
S. S. Illinois, Liverpool, Eng	29.04	737.6	49	9.4	92	sse.			5		10		wnw.					rainy.
S. S. Indiana, N. 46° 03′ W. 34° 49′†	30.49	774.4	60	15.6	44	n.			4		5		nne.	light	light	r'gh	ene.	fair.
S. S. Ohio, N. 49° 15′, W 28° 25′†	29.83	757.7	47	8.3	92	nw.			6		7		nnw.			h'vy	nw.	squally.
ANCHOR LINE.																		
S. S. Bolivia, N. 48° 40′. W. 34° 11′†	30.22	767.6	44	6.7		n.			5		5?		nne.	2 h'r	2 h'r	h'vy	n.	cloudy?
S. S. Ethiopia, N. 43° 58′, W. 48° 16′	30.24	768.1	41	5.0	96	sse.			5		7		wsw.	o	o	sm'h		cloudy.
S. S. Galatia, N 43° 45′, W. 49° 00′†.	30.26	768.6				sse.			5		7		sw.	o	o	sm'h	sw.	cloudy.
S. S. India, N. 16° 29′, E. 63° 52′ *	29 81	757.2	88	31.1	84	nw.			1		0							clear.
ATLAS LINE.																		
S. S. Allen, Savanilla, W. S. C†	29.96	761.0	79	26.1	90	ne			1		2		ne.	o	o	sm'h		fine.
S. S. Alvo, N. 10° 50′ W. 78° 53′	30.13	765.3	104	40.0		n.			7		10		n.	sh'rs	sh'rs	r'gh	n.	cloudy.
S. S. Athos, N. 21° 38′, W. 74° 05′	29.63	752.6				ese.			1		2		se.	o	o		e.	clear.
S. S. Claribel, N. 18° 12′, W. 73° 25′*†	30.14	765.5	80	26.7	86	e.			1		4		calm	hv'y	hv'y	mod.	ese.	fine.
BRITISH METEOROLOGICAL OFFICE.																		
Bk. Arran, S 27° 12′, W. 30° 15′	30.24	768.1	74.3	23.5	68	ese.			5		5							d. clouds.
British Merchant, S. 26° 12′, E. 54° 14′	30.05	763.3	76.2	24.6	77	s.			2		6							d. clouds.
Glencairn, S. 14° 41′, E. 85° 30′	29.91	759.7	80	26.7	78	ese.			4		3							d. clouds.
S. S. Julia H., N 26° 35′, W. 76° 07′	30.05	763.3	73.4	23.0	74	sse.			2		3							d. clouds.
S. S. Minho, Libson, Portugal	30.13	765.3	71.7	22.1	66	nw.			3–5									d. clouds.
CUNARD LINE.																		
S. S. Gallia, N. 42° 51′ W. 53° 35′	29.97	761.2	49	9.4	93	sw to w			6–7		10			rain	rain	high	con.	squally.
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. Canada, N. 42° 47′, W. 46° 53′	30.27	768.8	51.8	11.0		sse.			3		8		s.	o	o	sm'h	wnw.	cloudy.
S. S. St. Germain, N. 49° 22′, W. 12° 05′			46.4	8.0		wnw.			6				wnw.	o	o	h'vy	wnw.	clear.
GUION LINE.																		
S. S. Arizona, N. 42° 06′ W. 56° 03′	30.03	762.7	43	6.1		wnw.			4		5		w.	4 h'r	4 h'r	mod.	wnw.	fine.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S Bohemia, N. 48° 19′, W. 25° 16′*†	30.08	764.0				nw.			6		4		nw.	3 h'r	3 h'r	h'vy	nw.	stormy.
S. S. Cimbria, N. 48° 11′, W. 13° 16′	29.74	755.4	48.4	9.1		ene.			6		10		ne.	4 h'r	4 h'r	mod.	w.	
S. S. Gellert, N. 40° 30′, W. 62° 50′	30.19	766.8	55	12.8		nw.			2		8		nw.	o	o	mod.	nw.	fair.
S. S. Lessing, Hamburg, Germany	29.61	752.0	60	15.6		w.			2		2?		wnw.	o	o			cloudy?
S. S. Silesia, N. 48° 31′, W. 20° 19′†	29.96	761.0	49.1	9.5		wnw.			4–5		2		nw.	o	o	6–7	nw.	fair.
S. S. Wieland, N. 43° 21′ W. 42° 47′	30.47	773.9	56	13.3		e.			2		8		sw.	o	o	1	sw.	fair.
INMAN LINE.																		
S. S. City of New York, N. 46° 00′ W. 37° 30′	30.45	773.4				n.			3		3		n.	o	o	mod.	nne.	fair.
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, S. 27° 30′, W. 45° —′*†	30.34	770.6	77	25.0		nne.			3		4		wnw.	1 h'r	1 h'r	sm'h	se.	clear.
MALLORY LINE.																		
S. S. Colorado, New York, N. Y.†	30.06	763.5	46	7.8		nnw.			2		4		nnw.	2 h'r	2 h'r			fair.
MERCHANTS' EXPRESS LINE.																		
S. S. Freja, N. 41° 00′, W. 56° 47′†	30.16	766.1	59	15.0	76	w.			5		5		w.	4 h'r	4 h'r	cross	w.	
MERCHANTS' STEAMSHIP COMPANY.																		
S. S. Glenapp, N. 14° 16′, W. 55° 18′*†	30.00	762.0				ese.			6		8		ne.	o	o	mod.	e.	fine.
NATIONAL LINE.																		
S. S. Denmark, N. 48° 53′. W. 17° 40′	29.84	757.9	54	12.2		nnw.			5		2		nnw.	8 h'r	8 h'r	h'vy	nw.	clear.
S. S. England, N. 41° 12′ W. 56° 59′	30.10	764.5				wnw.			5		2			o	o	sm'h	w.	clear.
S. S. Erin, N. 49° 45′, W 7° 52′	29.24	742.7	47	8.3		nw.			8		5		w.	18 h'r	18 h'r	high	w.	raining.
S. S. Helvetia, N. 50° 32′, W. 16° 00′			44	6.7		nw.			6		4		nw.	hail	hail	high	nnw.	squally.
S. S. Italy, N. 44° 42′, W. 36° 37′	30.46	773.7	55	12.8	80	n.			3		2		ne.	2 h'r	2 h'r	sli't	n.	clear
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Niagara, Havana, Cuba†	30.08	764.0	77	25.0	95	se.			1		0			o	o			clear.
NEW YORK, HAVANA MAIL, AND MEXICAN																		
S. S City of Alexandria, N. 34° 00′ W. 75° 34′*†	30.16	766.1	71	21.7	75	sse.			4		10		s.	o	o	mod.	se.	gloomy.
S. S. City of Puebla, Havana, Cuba†	29.91	759.7	74.5	23.6		e.			2		0							
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Alvena, N. 18° 30′ W. 66° 08′†	30.00	762.0	77	25.0		Var.			1							sm'h		clear.
S. S. Olbers, N. 9° 50′ W 27° 30′*†	30.05	763.3	78	25.6		ne.			4–5								ne.	fine.
S. S. P. Caland, N. 40° 00′, W. 60° 26′	30.15	765.8	56.3	13.5		n.			2							3	nw.	
NORTH GERMAN LLOYD																		
S. S. Elbe, N. 39° 55′, W. 52° 30′	30.19	766.8	61.7	16.5	75	ssw.			5		5		ssw.	o	o	sm'h	s.	fair.
S. S. Graf Bismarck, S. 18° 13′, W. 38° 20′	30.20	767.1	78.8	26.0		se.			5		2		se.	1 h'r	1 h'r	mod.	se.	fair.
S. S. Habsburg, N. 41° 40′, W. 52° 10′	30.09	764.3	48.2	9.0		s.			4		10		s.	o	o	sm'h	s.	fair.
S. S. Hermann, N. 38° 05′, W. 69° 38′†	30.00	762.0	57.2	14.0		s.			3		2		s.	o	o	mod.	s.	fair.
S. S. Kronprinz F. Wilhelm, N 40° 50′, W. 67° 13′	30.15	765.8	40.1	4.5		s.			2		6		wsw.	o	o	1	s.	fair.
S. S. Main, N. 49° 47′, W. 9° 30′	29.47	748.5	47.3	8.5		nnw.			7–8		9		nw.	light	light	high	wnw.	hailing.
S. S. Nurnburg, N. 37° 13′, W. 73° 18′*	30.11	764.8				s.			2		10		s.	o	o	sm'h	s.	cloudy.
S. S. Ohio, Bremerhaven, Germany	29.63	752.6				wsw.			5		8		wsw.	o	o			cloudy.
S. S. Rhein, Bremerhaven, Germany	29.57	751.1				s.			3–4		3		sw.	o	o			fair.
S. S. Salier, N. 49° 58′, W. 5° 09′	29.05	737.9	47.3	8.5		W.			10		10		w.	7 h'r	7 h'r	h'vy	w.	hazy.
S. S. Strassburg, N. 47° 56′, W. 27° 20′	30.13	765 3	48.0	8.9	92	n.			4–5		5?		nnw.	2 h'r	2 h'r	mod.	n.	clear?
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Belgic N 36° 25′, W. 166° 13′†	30.21	767.3	59	15.0	70	ssw.			2		5		sw.	o	o	mod.	ne.	fair.
S. S. Oceanic, Hong Kong, China*	29.82	757.4	81	27.2	83	s.			5									cloudy.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, Savannah, Ga†	30.03	762.7				sw.			1		8		sw.	o	o			smoky.
S. S. Seminole, N. 40° 26. W. 73° 20′†	30.07	763.8	48	8.9	70	sw.			4		8		w.	o	o	mod.	cross	cloudy.
OREGON IMPROVEMENT COMPANY.																		
S. S. Mississippi, N 47° 35′ W. 124° 50′†	30.27	768.8	53	11.7	67	e.			1		5		e.					fair.
S. S. Willamette, N. 48° 03′, W. 125° 00′*†	30.21	767.3	50	10.0	86	nne.			0		5		ne.	o	o	sm'h		hazy
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. City of Chester, N. 38° 14′, W. 124° 00′*†	30.04	763.0	48	8.9	85	se.			1		0					long	w.	clear.
S. S. Oregon, N. 40° 46′, W. 124° 34†	30.11	764.8	58	14.4	88	nw.			2							sm'h		clear.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, San Pedro Bay, Cal†	29.95	760.7	58	14.4	82	se.			1		10		se.			sm'h		cloudy.
S. S. Idaho, Seattle, Was. Ter†	30.00	763.5	48	8.9	85	calm			0		0							clear.
S. S. State of California, San Francisco, Cal.†	30.01	762.2	50	10.0	93	wsw.			3		0							clear.
S. S. Victoria, San Francisco, Cal†	30.02	762.5	51	10.6	93	sw.			4		0			o	o			clear.
PACIFIC MAIL STEAMSHIP CO.																		
S. S. Australia, S. 19° 27′, W. 173° 10′	29.95	760.7	78	25.6	86	nne.			2		2		ne.			sm'h		clear.
S. S. New York, Sydney, N. S. W†	29.77	756.1	64	17.8	?	sw.			2		1		sw.	o	o			clear.
S. S. City of Pekin, N. 32° 12′, W. 119° 32′†	29.95	760.7	56	13.3	94	nw.			4		0					mod.	nw.	clear.
S. S. City of Rio de Janeiro, Panama, Panama*†	30.10	764.5	76	24.4	86	nw.			2		2		nw.			sm'h	nw.	clear.
S. S. City of Tokio, N. 35° 26′, E. 139° 39′†	29.42	747.3	62	16.7	83	nw.			2		8		nw.	o	o			fine.
S. S. Clyde, N. 23° 43′, W. 109° 06′†	29.89	759.2	74	23.3	81	w.			1		5		nw.	o	o	light	sw.	fair
H. S. Granada, Acapulo, Mexico†	29.86	758.4	75	23.9	90	sw.			1		0			o	o			hazy.
S. S. South Carolina, La Libertad, San Salvador†	29.95	760.7	83	28.3	71	nw.			1		0			o	o	sm'h		dense smoke
S. S. Zelandia, S. 30° 23′, W. 180° 00′	29.70	754.4	74	23.3	90	w.			4		0					mod.	w.	clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.			Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	Upper.	Lower.	Upper.	Lower.	Inch.	Mill.			
Quebec Steamship Company.																	
S. S. Muriel, N. 25° 45′, W. 66° 00′	30.05	763.3	78	25.6	.....	e.	.....	.....	2	.....	0	.....	.....	0	0	mod.	e.	fair.
S. S. Bermuda, St. Lucia, W. I†	30.02	762.5	67?	19.4?	.....	e.	.....	.....	1	.....	7	.....	e.	0	0	sm'h	.....	fine.
Red Star Line.																		
S. S. Belgenland, N. 40° 10′, W. 56° 06′†	30.24	768.1	60	15.6	82	s.	.....	.....	6	.....	2	.....	s.	0	0	mod	.....	fair.
S. S. Nederland, N. 43° 34′, W. 33° 03′*†	30.28	769.1	53	11.7	.....	nnw.	.....	.....	3	.....	2	.....	nnw.	0	0	mod.	nnw.	fair.
S. S. Rhynland, Jersey City, N. J	30.08	764.0	51	10.6	65	nnw.	.....	.....	2	.....	4	.....	wnw.	0.05	1.3	.....	.....	fair.
S. S. Switzerland, N. 49° 17′, W. 10° 50′†	29.48	748.8	.....	.....	.....	wnw.	.....	.....	7	.....	5	.....	wnw.	5 h'r	5 h'r	hv'y	wnw.	fair.
S. S. Vaderland, N. 46° 09′, W. 32° 25′	30.06	763.5	49	9.4	78	s.	.....	.....	4	.....	5	.....	nnw.	2 h'r	2 h'r	mod.	nw.	rainy.
S. S. Waesland, Antwerp, Belgium	29.50	749.3	54	12.2	.....	s.	.....	.....	4	.....	10	.....	s.	6 h'r	6 h'r	.....	.....	cloudy.
Rotterdam Line.																		
S. S. Schiedam, N. 49° 24′ W. 20° 10′*	29.84	757.9	49.8	9.9	83	var.	.....	.....	4	.....	4	.....	nw.	4 h'r	4 h'r	high	nnw.	fair.
State Line.																		
S. S. State of Florida, Larne, Scotland	29.27	743.4	55	12.8	.....	ne.	.....	.....	2	.....	10	.....	nne.	0	0	.....	.....	cloudy.
S. S. State of Georgia, N. 54° 24′, W. 16° 12′†	29.52	749.8	39	3.9	.....	nnw.	.....	.....	6	.....	5	.....	nw.	.....	.....	mod.	nw.	h'y squalls.
Thingvalla Line.																		
S. S. Thingvalla, Brooklyn, N. Y.†	30.24	768.1	47.3	8.5	.....	sse.	.....	.....	2	.....	2	.....	sse.	0	0	.....	.....	clear.
White Cross Line.																		
S. S. Plantyn, N. 40° 39′, W. 50° 46′	30.17	766.3	.....	.....	.....	var.	.....	.....	3–6	.....	3	.....	ssw.	0	0	sm'h	.....	fine.
White Star Line.																		
S. S. Adriatic, N. 49° 45′ W. 27° 44′.†	30.15	765.8	46	7.8	.....	nnw.	.....	.....	6	.....	8	.....	nw.	sh'rs	shr's	mod.	nnw.	showery.
S. S. Baltic, N. 42° 16′ W. 54° 14′†	30.05	763.3	44.6	7.0	92	nnw.	.....	.....	5	.....	10	.....	nw.	6 h'r	6 h'r	mod.	con.	drizzling.
S. S. Britannic, N. 41° 16′, W. 66° 48′†	30.06	763.5	40	4.4	.....	wsw.	.....	.....	2	.....	8	.....	w.	0	0	sm'h	.....	d clouds.
S. S. Celtic, N. 40° 28′, W. 62° 00′†	30.15	765.8	52	11.1	.....	n.	.....	.....	2	.....	10	.....	n.	0	0	sm'h	.....	cloudy.
Wilson Line.																		
S. S. Otranto, N. 47° 29′, W. 31° 21′†	29.60?	751.8?	50	10.0	.....	nw.	.....	.....	5	.....	.....	.....	w.	.....	.....	r'gh	w.	light rain.
S. S. Romano, New York, N. Y*†	29.84	757 9	52	11.1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
S. S. Salerno, Falmouth, Eng*	29.99	761.7	49	9.4	89	wnw.	.....	.....	10	.....	10	.....	wnw.	.....	.....	.....	.....	raining.
Winsor Line.																		
S. S. Catherine Whiting, Providence, R. I.†	30.04	763.0	.....	.....	.....	wnw.	.....	.....	1	.....	.....	.....	n.	0	0	.....	.....	
Miscellaneous.																		
Schr. Abbie Clifford, N. 30° 55′, W. 51° 24′*†	30.20	767.1	77	25.0	.....	ne.	.....	.....	1–2	.....	2	.....	e.	0	0	con	var.	fine
Schr. Addie Fuller, Newport News, Va†	30.09	764.3	56	13.3	100	s.	.....	.....	.....	.....	9 s	.....	sw.	0	0	.....	.....	cloudy.
Bk. Adelaide, Rio de Janeiro, Brazil*†	30.15	765.8	80	26.7	.....	se.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Schr. Ajax, N. 28° 55′ W. 88° 40′†	30.06	763.5	.....	.....	.....	wsw.	.....	.....	3	.....	3	.....	sw.	0	0	sm'h	.....	hazy.
Bk. Alpha, Santiago de Cuba, W. I†	29.95	760.7	79	26.1	.....	nne.	.....	.....	2	.....	1	.....	n.	0	0	.....	.....	fair.
Bk Antioch, S. 39° 56′, E. 52° 45′*†	29.80	756.9	54	12.2	.....	sw.	.....	.....	7	.....	2	.....	wsw.	½ h'r	½ h'r	sm'h	sw.	fair.
Schr. Asa Eldridge, Sand Key Lighthouse, Fla†	30.02	762.5	.....	.....	.....	se.	.....	.....	3	.....	2	.....	s.	0	0	.....	.....	
Bk. Aureola, S. 17° 18′ W. 36° 51′*†	30.23	767.8	93	33.9	.....	se.	.....	.....	4	.....	5	.....	se.	4 h'r	4 h'r	long	se.	fair.
Bkt. Carrie Heckle, Cienfuegos, Cuba, W. I*†	30.14	765.5	81	27.2	.....	nw.	.....	.....	1	.....	0	.....	.....	0	0	.....	.....	fair.
Bk. Champion, Bremerhaven, Germany†	29.51	749.5	.....	.....	.....	sw.	.....	.....	6	.....	10	.....	w.	8 h'r	8 h'r	.....	.....	
S. S. Compton, Mouth Mississippi River†	30.03	762.7	.....	.....	.....	calm	.....	.....	0	.....	4	.....	nw.	0	0	sm'h	.....	threatening.
S. Dora, N. 42° 00′ W. 36° 30′†	30.50	774.7	58.5	14.7	.....	nnw.	.....	.....	3	.....	4	.....	nnw.	0	0	long	nnw.	clear.
Bk. E. J. Spicer, N. 40° 21′, W. 36° 40′†	30.32	770.1	.....	.....	.....	e.	.....	.....	4	.....	0	.....	.....	0	0	mod.	ne.	clear.
S Enoch Train, N. 41° 26′ W. 55° 25′*	29.96	761.0	.....	.....	.....	nnw.	.....	.....	6	.....	10	.....	n.	shr's	shr's	con.	.....	hazy.
S. Exporter, S. 19° 00′, W. 33° 00′*†	30.30	769.6	.....	.....	.....	ene.	.....	.....	4	.....	.....	.....	.....	23 h'r	23 h'r	hv'y	se.	squally.
S. Festina Lente, N. 37° 30′, W. 64° 40′*	30.19	766.8	58	14.4	.....	nnw.	.....	.....	2	.....	3	.....	nnw.	4 h'r	4 h'r	sm'h	nnw.	clear.
U.S. F.C.S. Fish Hawk, Quantico, Va†	30.20	767.1	61	16.1	94	nne.	.....	.....	2	.....	10	.....	ne.	.....	.....	.....	.....	light rain.
S. Grecian, S. 40° 05′, [illegible] 56° 31′*†	29.75	755.6	48	8.9	.....	wsw.	.....	.....	6	.....	8	.....	sw.	1 h'r	1 h'r	cross	s:sw.	cloudy.
Bk. Freya, Queenstown, Ireland	.....	.....	47	8.3	.....	n.	.....	.....	7	.....	10	.....	nw.	7 h'r	7 h'r	.....	.....	sleeting.
Bk. Granville, Algoa Bay, Africa*†	30.06	763.5	.....	.....	.....	wnw.	.....	.....	.....	.....	.....	.....	.....	0	0	.....	.....	clear.
Bk. Hattie G. McFarland, N. 38° 06′, W. 74° 51′*†	30.05	763.3	54	12.2	.....	nw.	.....	.....	3	.....	9	.....	w.	sh's	sh's	.....	.....	hazy.
S. Hedwig, N. 41° 01′, W. 64° 21′	30.20	767.0	40.5	4.7	90	wsw.	.....	.....	2	.....	7	.....	wsw.	0	0	2	s.	
Schr. John L. Thomas, Serrana Cays, C. A*†	30.04	763.0	.....	.....	.....	ene.	.....	.....	.....	.....	2	.....	ene.	0	0	light	ne.	fine.
Bg John Wesley, N. 28° 12′, W. 79° 45′†	29.90	759.4	79	26.1	.....	w.	.....	.....	4	.....	2	.....	w.	0	0	sm'h	.....	clear.
Bkt. Josephine, N. 11° 51′, W. 74° 56′*†	29.96	761.0	81	27.2	78	ne.	.....	.....	6	.....	8	.....	ne.	0	0	long	ne.	hazy.
Bk. Kate Cann, N. 45° 06′, W. 20° 10′*†	29.94	760.5	.....	.....	.....	wnw	.....	.....	5	.....	5	.....	nw.	1 h'r	2 h'r	mod.	nw.	rain & hail.
Bkt. Kryolith, N. 46° 53′, W. 14° 26′*†	29.86	758.4	.....	.....	.....	wnw.	.....	.....	7	.....	2	.....	wnw.	0	0	hv'y	w.	clear.
S. Lake Erie, N. 51° 01′ W. 9° 40′	29.17	740.9	.....	.....	.....	wnw.	.....	.....	8	.....	8	.....	w.	h'v'y	h'vy	h'vy	w.	squally.
S. S. Lamperts, N. 36° 44′, W. 8° 35′*	30.04	763.0	63.0	17.2	83	nw.	.....	.....	3	.....	2	.....	.....	.....	.....	.....	.....	d. clouds.
Light House Tender, Laurel, Key West, Fla†	30.04	763.0	78	25.6	.....	sw.	.....	.....	1	.....	7	.....	s.	0	0	.....	.....	fair.
Schr. Maggie Abbott, N 21° —′, W. 74° —′*†	29.98	761.5	.....	.....	.....	ne.	.....	.....	.....	.....	.....	.....	.....	0	0	.....	.....	clear.
S. S. Malabar, N. 19° 04′, E. 39° 08′*†	29.87	758.7	.....	.....	.....	sse.	.....	.....	2	.....	.....	.....	.....	0	0	.....	.....	
Bg. Medina, Key Francis, W. I.†	30.08	764.0	.....	.....	.....	se.	.....	.....	1	.....	0	.....	.....	.....	.....	.....	.....	fine.
S. S. Nebo, S. 18° 09′, W. 38° 31′*†	30.05	763.3	.....	.....	.....	ene.	.....	.....	3	.....	1	.....	e.	0	0	long	ene.	clear.
S. S. New York, Off Cape de Gata, Spain*†	30.30	769.6	.....	.....	.....	se.	.....	.....	.....	.....	.....	.....	.....	0	0	mod.	w.	fair.
Bk. Peppina, Bordeaux, France†	29.87	758.7	64	17.8	73	w.	.....	.....	4	.....	2	.....	w.	.....	.....	.....	.....	fair.
Bg. Potomac, N. 14° 57′, W. 58° 58′*†	29.90	759.4	.....	.....	.....	ene.	.....	.....	3	.....	.....	.....	ene.	.....	.....	rg'h	ne.	cloudy.
S. Salisbury, S. 22° 04′, W. 32° 00′*	30.24	768.2	78.6	25.9	79	ese.	.....	.....	6	.....	5	.....	ese.	1 h'r	1 h'r	r'gh	se.	fair.
Schr. S. B. Hubbard, St. Johns River, Fla*†	30.01	762.2	75	23.9	.....	se.	.....	.....	1	.....	0	.....	.....	0	0	.....	.....	fine.
S. S. Utopia, N. 40° 20′ W. 42° 24′†	30.48	774.2	62	16.7	83	e.	.....	.....	2	.....	8	.....	ese.	0	0	sli't	e.	cloudy.
Yacht Vega, N. 37° 05′, W. 67° 32′*†	30.32	770.1	60	15.6	.....	calm	.....	.....	0	.....	.....	.....	sse.	0	0	light	sse.	fair.
S. Washington, N. 47° 08′, W. 24° 16′*†	29.98	761.5	.....	.....	.....	nnw.	.....	.....	5	.....	2	.....	n.	3 h'r	3 h'r	chop	nw.	fair.
Bg. Wauburn, N. 29° 40′, W. 57° 52′*†	30.10	764.5	.....	.....	.....	ese.	.....	.....	4	.....	4	.....	ese.	.....	.....	sm'h	.....	
S. Wm. Woodbury, N. 37° 26′, W. 59° 52′*†	29.83	757 7	64	17.8	.....	ese.	.....	.....	4	.....	.....	.....	s.	.....	.....	cross	ssw.	cloudy.

International Chart I. April 29, 1882. Isobars and Isotherms.



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON APRIL 30, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours	.....	.....	29.88	759 0	72.7	22.6	82	ne.	.....	.....	5	.....	0	.....	.....	0	0	clear	Moiroud.
Algiers	.....	.....	29.88	758.9	77.7	25.4	50	wsw.	.....	.....	1	.....	9	.....	.....	0	0	very cloudy	Nicolas.
La Calle	.....	.....	29.95	760.8	74.5	23.6	72	sse.	.....	.....	1	.....	1	.....	.....	0	0	very fair	Fonfrède.
Tunis	.....	.....	30.07	763.8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.04	763.1	91.0	32.8	.....	sw.	.....	.....	4	.....	1	.....	.....	0	0	very fair	Dumas.
Tebessa	.....	.....	30.10	764.6	68.5	20.3	59	w.	.....	.....	3	.....	1	.....	.....	0	0	very fair	Derché.
Geriville	.....	.....	.....	.....	84.9	29.4	11	s.	.....	.....	4	.....	1	.....	.....	0	0	very fair	Louchamp.
Laghouat	.....	.....	30.12	765.0	84.2	29.0	71	s.	.....	.....	2	.....	0	.....	.....	0	0	clear	Abraham.
Biskra	.....	.....	30.11	764.8	87.1	30.6	24	se.	.....	.....	3	.....	0	.....	.....	0	0	clear	Malau.
Australian.																			
Melbourne, Victoria	29.85	758.2	29.94	760.5	55.7	13.2	88	wsw.	12	5.4	.....	.....	10	.....	.....	0.10	2.5	showery	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.49	749.0	30.02	762.6	68.0	20.0	50	s.	.....	.....	1	.....	0	.....	.....	0	0	.....	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.21	741.8	29.96	760.9	64.0	17.8	44	wnw.	7.4	3.3	.....	.....	5	.....	.....	0	0	.....	Dr. Wierzbiski.
Eperies	29.05	737.8	29.90	759.5	63.9	17.7	57	nw.	.....	.....	1	cs	5 s	.....	se.	0	0	.....	Julius Mikolik.
Gratz	28.76	730.5	29.98	761.6	64.8	18.2	42	s.	.....	.....	2	.....	0	.....	.....	0	0	.....	Andreas Rospini.
Hermannstadt	28.50	724.0	29.93	760.1	53.1	11.7	93	nw.	.....	.....	1	.....	10	.....	.....	0.055	1.4	raining	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.69	728.6	30.01	762.3	57.7	14.3	61	nw.	.....	.....	2	.....	10	.....	.....	0	0	gloomy	The Staff.
Lemberg	28.96	735.5	29.93	760.2	59.7	15.4	67	nw.	.....	.....	3	.....	9	.....	.....	0	0	.....	Dr. T. Stanecki.
Pola	29.97	761.3	30.08	764.1	67.6	19.8	61	se.	.....	.....	1	.....	0	.....	.....	0	0	.....	I. R. Hydrographic Office.
Szathmar	29.46	748.2	29.91	759.7	64.6	18.1	52	nw.	.....	.....	3	.....	0	.....	.....	0	0	.....	Joseph Midlinszky, S. J.
Szegedin	29.69	754.1	29.97	761.1	66.0	18.9	48	nw.	.....	.....	2	.....	6	.....	.....	0	0	.....	Karl Stancel.
Trieste	30.00	762.1	30.11	764.7	64.0	17.8	46	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	Rieder.
Vienna	29.29	744.0	29.99	761.8	66.9	19.4	42	wnw.	.....	.....	3	.....	7	.....	.....	0	0	.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.33	745 0	29.43	747.5	47.6	8.7	33	w.	25	11.2	.....	.....	7	.....	.....	0	0	squally	W. Boswell.
Armagh, Observatory	29.26	743.2	29.50	749.3	47.8	8.8	60	ssw.	17	7.6	.....	.....	.....	.....	.....	.....	.....	.....	S. Call.
Bidston, Liverpool Obs'y	.....	.....	29.63	752.6	45.0	7.2	82	sw.	18	8.0	.....	.....	10	.....	.....	.....	.....	overcast	John Hartnup.
Bolton, Sharples	29.09	738.9	29.63	752.6	47.9	8.8	54	w.	18	8.0	.....	.....	8	.....	.....	.....	.....	rain & hail	Lance Cpl. G.A. Pickles.
Bradford, Yorkshire	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.32	8.1	.....	J. McLandsborough, F. R
Bridgetown, Barbadoes	29.98	761.5	30.01	762.2	84.0	28.9	61	ne.	.....	.....	2	.....	3	.....	.....	.....	.....	d. clouds	Corpl. J. Surgenor, A. H.C.
Cardington	.....	.....	29.72	754.9	54.6	12.6	55	sw.	.....	.....	4.0	.....	2	.....	.....	blank	blank	blue sky	John McLaren.
Chatham, School M. E	29.70	754.4	29.83	757.7	52.7	11.5	58	sw.	.....	.....	2	.....	5	.....	.....	.....	.....	d. clouds	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	29.49	749.0	29.72	754.9	51.0	10.6	60	ssw.	.....	.....	6	.....	7	.....	.....	.....	.....	squally	The Staff.
Fort Napier, Natal	27.60	701.0	29.82	757.4	76.0	24.4	69	e.	.....	.....	1	.....	3	.....	.....	.....	.....	blue sky	Pvt. E. K. Annis, A. H.C.
Free Town, Sierra Leone	29.59	751.6	29.82	757.4	89.0	31.7	63	nw.	.....	.....	1	.....	5	.....	.....	.....	.....	raining	Sergt. John Robinson.
Gibraltar, Mediterranean	29.94	760.5	29.99	761.7	75.5	24.2	72	e.	.....	.....	1	.....	0	.....	.....	.....	.....	blue sky	Opl. O. Baldwin.
Glasgow, Observatory	29.20	741.7	29.41	747.0	48.0	8.9	48	sw.	.....	.....	5	5 ck	0	.....	.....	.....	.....	d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.62	752.3	29.80	756.9	55.0	12.8	55	sw.	.....	.....	4	.....	6	.....	.....	.....	.....	d. clouds	The Staff.
Guernsey	29.55	750.6	29.84	757.9	52.5	11.4	69	sw.	.....	.....	2	.....	8	.....	.....	.....	.....	d. clouds	A. Collenette, F. M. S.
Kew, Observatory	29.76	755.9	29.80	756.9	52.2	11.2	51	ssw.	20	8.9	.....	.....	7	.....	.....	.....	.....	d. clouds	The Staff.
Leicester, Museum	29.46	748.3	29.72	754.9	49.4	9.7	96	nw.	.....	.....	2	.....	1	.....	.....	.....	.....	d. clouds	J. C. Smith.
Malta, Mediterranean	30.01	762.2	30.09	764.3	64.8	18.2	75	nw.	.....	.....	2	.....	0	.....	.....	.....	.....	blue sky	I. H. Whysall.
Nassau, Bahamas	30.04	763.0	30.09	764.3	79.2	26.2	68	s.	.....	.....	1	.....	4	.....	.....	.....	.....	d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.16	740.7	29.69	754.1	50.1	10.1	61	s.	.....	.....	2	.....	5	.....	.....	.....	.....	d. clouds	John Mac Email.
Oxford, Radcliffe Obs'y	29.51	749.5	29.74	755.4	53.2	11.8	48	sw.	.....	.....	4	.....	5	.....	.....	.....	.....	squally	The Staff.
Plymouth	29.65	753.1	29.72	754.9	49.0	9.4	77	sw.	.....	.....	5	.....	10	.....	.....	.....	.....	raining	John Merrifield.
Sandwick Manse, Orkneys	.....	.....	29.36	745.7	43.5	6.4	79	w.	35	15.6	.....	.....	9	.....	.....	.....	.....	drizzling	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.73	755.1	29.80	756.9	59.4	15.2	70	ne.	.....	.....	2	.....	8	.....	.....	blank	blank	d. clouds	W. H. Lyne.
Sheffield	29.37	746.0	29.64	752.8	53.2	11.8	51	sw.	.....	.....	4	.....	1	.....	.....	0.02	0.5	blue sky	W. F. Cooper.
Silloth Rectory	29.54	750.3	29.57	751.1	49.7	9.8	63	w.	.....	.....	3	.....	1	.....	.....	0.090	2.3	blue sky	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	29.64	752.8	48.0	8.9	48	sw.	18	8.0	.....	.....	8	.....	.....	blank	blank	d. clouds	Rev. S. J. Perry.
Stratfield Turgiss	.....	.....	.....	.....	53.7	12.1	53	s.	.....	.....	3-4	.....	8	.....	.....	.....	.....	squally	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	29.65	753 1	29.69	754.1	56	13.3	68	sw.	.....	.....	7	.....	6	.....	.....	.....	.....	d. clouds	W. Newcombe.
Valencia, Observatory	29.44	747.8	29.47	748.5	48.0	8.9	60	sw.	40	17.9	.....	.....	7	.....	.....	.....	.....	squally	The Met'g'l Office.
Canadian.																			
Bathurst, N. B	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.06	763.5	30.10	764.5	37	2.8	94	sw.	3	1.3	.....	.....	10 s	.....	.....	0	0	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	30.03	762.7	30.09	764.3	35	1.7	96	s.	5	2.2	.....	.....	10 s	.....	s.	0	0	cloudy	G. A. Blair.
Father Point, Quebec*	29.97	761.2	29.99	761.7	38	3.3	89	sw.	15	6.7	.....	.....	10 s	.....	sw.	0	0	cloudy	J. McWilliams.
Fort Garry, Manitoba*	29.05	737.9	29.90	759.4	37	2.8	72	nw.	10	4.5	.....	5 k	5 n	nw.	nw.	0	0	cloudy	James Stewart.
Halifax, N. S*	30.00	762.0	30.13	765.3	38	3.3	96	s.	2	0.9	.....	.....	fg.	.....	.....	0	0	foggy	A. Allison.
Kingston, Ontario*	29.68	753 9	30.02	762.5	42	5.6	62	nw.	8	3.6	.....	2 cs	0	.....	.....	0.03	0.8	clear	A. P. Knight, M. A.
Montreal, Quebec*	29.82	757.4	30.03	762.7	37	2.8	82	e.	5	2.2	.....	5 k	5 ks	w.	w.	0.02	0.5	cloudy	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.35	745.5	30.07	763.8	34	1.1	78	ne.	4	1.8	.....	5 k	2 ks	ne.	ne.	0	0	fair	Rev. R. Mosley.
Port Dover, Ontario	29.36	745.7	30.07	763.8	37	2.8	81	calm	0	0	.....	10 k	0	w.	.....	0	0	fair	H. Morgan.
Port Stanley, Ontario	29.40	746.7	30.06	763.5	40	4.4	48	ne.	5	2.2	.....	5 ck	0	w.	.....	0	0	fair	M. Payne.
Quebec, Quebec*	29.69	754.1	30.03	762.7	36	2.2	89	nw.	.....	.....	1	0	2 s	.....	nw.	0	0	clear	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.55	750.6	30.02	762.5	37	2.8	82	w.	2	0.9	.....	2 k	0	nw.	.....	0.03	0.8	fair	W. H. McIntyre.
Saugeen, Ontario*	29.35	745.5	30.08	764.0	37	2.8	82	nw.	12	5.4	.....	.....	10 ks	.....	.....	0	0	cloudy	
St. Andrews, N. B	30.01	762.2	30.06	763.5	37	2.8	92	se.	3	1.3	.....	.....	fg.	.....	.....	0.02	0.5	foggy	
Sydney, C. B*	30.10	764.5	30.16	766.1	41	5.0	82	sw.	10	4.5	.....	5 ck	2 k	sw.	.....	0	0	fair	T. C. Hill, C. E.
Toronto, Ontario*	29.68	753.9	30.07	763.8	40	4.4	59	ne.	3	1.3	.....	2 ck	5 ks	sw.	calm	0	0	fair	Magnetic Observatory.
Yarmouth, N. S*	29.99	761.7	30.06	763.5	41	5.0	96	se.	2	0.9	.....	.....	10 s	.....	s.	0.03	0.8	light rain	Lt. F. E. Wilmot, R. N.
Sub-series.																			
St. Johns, Newfoundland	30.05	763.3	30.31	769.9	40	4.4	91	sw.	2	0.9	.....	0	0	.....	.....	0	0	fair	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	29.78	756.4	29.81	757.2	71.0	21.7	83	wsw.	.7.6	3.4	.....	0	3 k	.....	.....	0	0	light haze	John Duthie.
Cape Town, C. G. H. Obs'y	29.83	757.7	29.87	758.7	55.4	13.0	100	n.	25	11.2	.....	10	10	.....	.....	0	0	.....	The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mil.	Inch.	Mil.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mil.		
CHINESE (*Sub-series*).																			
Hankow	29.88	758.9	30.15	765.8	61.8	16.6	79	sse.			2		0			0	0		N. Titoushkin.
Zi-Ka-Wei, near Shanghai.	30.04	762.9	30.06	763.5	51.1	10.6	76	ese.	8.9	4.0			0			0	0	clear	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	29.55	750.6	29.60	751.8	50.5	10.3	73	s.	35.8	16			10					raining	Oversergent Fischer.
Faröe	29.46	748.2	29.48	748.9	45.9	7.7	77	wsw.			8		9						Overloerer Lauridsen.
Godthaab, Greenland	30.22	767.5	30.26	768.6	31.8	— 0.1	76	ene.			2		4						S. Kleinschmidt.
Stykkisholm, Iceland	30.07	763.7	30.11	764.8	20.8	— 6.2	95	ne.			8		8						A. O. Thorlacius.
Thorshavn	29.32	744.8	29.36	745.7	47.3	8.6	65	nne.	11	5			3						Overloerer Bergh.
Vestervig	29.06	738.2	29.15	740.5	45.9	7.7	93	ssw.			8		10					raining	Loearer Oesterbol.
FRENCH.																			
Agen, Normal School	29.26	743.2	29.91	759.6	63.0	17.2	65	calm			0	ck	0	W.		0	0		M. Labroue, Directo..
Alençon, Normal School	29.42	747.2	29.94	760.4	55.4	13	66	s.			1			n.	n.	0.16	4.		M. Nicot, Directer.
Arras, Engineer School	29.65	753.2	29.91	759.8	53.1	11.7	48	sw.			2		ks		ne.	0.264	6.7		Capt. Bertrand, Dir.
Avginon, Normal School	29.90	759.4	29.98	761.4	69.8	21	65	s.			1		10			0	0	covered	M. Giraud, Director.
Bar-sur-Seine	29.45	747.9	30.00	762.0	56.8	13.8	49	e.			2		3		w.	0.071	1.8	slightly cl'dy	M. Saillard, Director.
Beauvais, Normal School	29.69	754.2	29.96	760.9	56.5	13.6	47	ssw.			2		8		wsw.	0.165	4.2	very cloudy	M. Frère Eugène Mari.
Besançon, Normal School	29.11	739.4	30.00	762.1	56.5	13.6	67	sw.			1		10 n		sw.	0.047	1.2	covered	M. Gobin, Director.
Bordeaux, Observatory	29.64	752.9	29.90	759.5	57.6	14.2	72	e.			1		10		sw.	0	0	covered	M. Rayet, Director.
Bourges, Normal School	29.47	748.6	30.07	763.7	56.3	13.5	43	se.			1	c	0	se.		0	0		M. Postel, Director.
Brest, Naval Observatory	29.62	752.3	29.86	758.5	55.8	13.2	66	sw.			2		7		sw.	0.047	1.2		M. de Kermaree, Dir.
Caen, Normal School	29.80	756.9	29.87	758.8	59.0	15	48	sw.			2		8		sw.	0.154	3.9	very cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.66	753.3	29.98	761.4	60.4	15.8	29	s.			2		2			0.087	2.2	slightly cld'y	M. Jadot, Director.
Charleville, Normal School	29.47	748.5	29.98	761.5	55.8	13.2	77	sw.			2		5			0	0	⅜ covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.59	726.1	29.93	760.3	56.1	13.4	56	s.			1		10			0.071	1.8	prinkling	M. Alluard, Director.
Cluny, Normal School	29.16	740.6	30.00	762.0	53.2	11.8	67	ese.			1			sw.		0.012	0.3		M. de Villemontée, Dir.
Commercy, Normal School	29.15	740.4	30.02	762.5	55.2	12.9	40	sw.			3	5 cks		sw.	sw.	0.114	2.9	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.50	698.4	29.96	760.9	68.0	20	40						2		n.	0	0		M. Jeangirard, Director.
Gréasque, du. Rhone	28.87	733.3	29.95	760.8	73.8	23.2	39	s.			2		5		se.	0	0		M. Kina, Director.
Grenoble, Normal School	29.17	741.0	29.93	760.2	63.3	17.4	68	sse.			1		kn		s.	0	0		M. Ablard, Director.
Guéret, Normal School	28.36	720.3	29.95	760.6	57.2	14	55	sse.			1		kn		ssw.	0.350	8.9		M. Rivoire, Director.
Lamballe, Normal School	29.60	751.7	29.87	758.6	55.4	13	53	s.			3		5		s.	0	0	cloudy	M. Olliffault, Director.
Lescar, Normal School	29.35	745.6	29.91	759.8	60.1	15.6	61	ese.			3		0			0.075	1.9	clear	M. Chauvin, Director.
Lorient, Naval Observatory	29 81	757.2	29.91	759.8	56.3	13.5	60	s.			4		8		s.	0.374	9.5	¾ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.94	735.0	29.98	761.6	56.3	13.5	66	e.			1	1 c	0	sw.		0.067	1.7	clear	M. André, Director.
Mans, Normal School	29.66	753.3	29.97	761.2	54.9	12.7	39	ssw.			4		5		s.	0.209	5.3	cloudy	M. Piboen, Director.
Marseille, Observatory	29.72	755.0	29.99	761.7	66.2	19.0	64	ssw.			3		9		wsw.	0	0		M. Stephan, Director.
Montlouis l'Instituteur	24.76	628.9	29.60	751.9	56.8	13.8	52	w.	18.6	8.3			0						M. Cave, for Dr. Fines.
Montpellier, Normal School	29 82	757.5	29.95	760.7	64.8	18.2	72	s.			2		5			0	0	cloudy	M. Galzin, Director.
Nancy, Normal School	29.21	742.0	29.98	761.6	58.6	14.8	24	sw.			1	2 ck	0			0	0	slightly cl'dy	M. Hasse, Director
Nantes, Observatory	29.82	757.3	29.98	761.4	54.7	12.6	67	s.			0-2	0	9kn;n		sw.	0.047	1.2		M. Larocque, Director.
Perpignan, Observatory	29.82	757.4	29.93	760.2	59.0	15.0	75	se.	11.2	5.0			0			0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.12	536.4			54.7	12.6		sw.			4–5		5		sw.	0	0	squally	Gen'l de Nansouty, Dir.
Privas, Normal School	28.95	735.4	30.00	762.0	63.5	17.5	76	s.			1		2			0	0	slightly cl'dy	M. Talleu.
Puy de Dôme Obs'y, Summit	25.04	636.0			38.1	3.4	98	s.			4		10			0.177	4.5	sprinkling	M. Alluard, Director.
Rochefort, Naval Obs'y	29.94	760.5	29.97	761.3	59.0	15.0	98	sse.			1		10		s.	0	0	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.65	753.0	29.86	758.5	54.7	12.6	63	sw.			1		10			0	0	covered	M. Mouillot, Director.
Rodez, Normal School	27.86	707.6	29.97	761.3	61.5	16.4	56	s.			2		1	n.	s.	0	0	clear	M. Serger, Director.
Rouen, Normal School	29.88	759.0	29.93	760.2	56.1	13.4	49	wsw.			1		8		sw.	0.055	1.4	very cloudy	M. Brotier.
Saint Maur, Observatory	29.81	757.2	29.98	761.4	55.9	13.3	43	sw.			2		6	sw.	sw.	0.028	0.7		M. Renou, Director.
Toulouse, Observatory	29.22	742.1	29.94	760.4	65.7	18.7	74	se.			1		10	w.		0	0	covered	M. Baillaud, Director.
Versailles, Observatory	29.48	748.8	29.97	761'3	54.0	12.2	45	sw.			2					0	0		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.69	754.1	29.98	761.5	55.6	13.1	49	sw.			2		8		wsw.	0.110	2.8		M. Marié Davy, Director
GERMAN.																			
Bamberg	29.14	740.2	30.00	761.9	57.7	14.3	30	wsw.			3	0	3 k		w.	0	0		Prof. Dr. Hoh.
Berlin	29.71	754.7	29.89	759.1	61.2	16.2	24	sw.			6		5			0	0		Prof. Dr. Arndt.
Breslau	29.44	747.8	29.97	761.3	61.0	16.1	33	w.			4		3			0	0		Royal University Obs'y.
Carlsruhe	29.59	751.6	30.03	762.7	58.3	14.6	38	s.			2		1	sw.		0.295	7.5		Albert Senz.
Cassel	29.22	742.2	29.93	760.3	59.4	15.2	81	sw.			6		8	s.		0	0		Dr. H. Möhl.
Frankfort on the Main	29.62	752.4	29.98	761.6	60.3	15.7	35	wsw.			2		5			0.008	0.2		Physical Society.
Friedrichshafen	28.61	726.6	30.04	763.1	54.3	12.4	71	w.			3		4	w.		0	0		Wilhelm, Chief Tel.
Hamburg	29.68	753.8	29.77	756.2	50.0	10.0	69	wsw.			9		7			0.020	0.5	rainy	E. Preller.
Kiel	29.66	753.3	29.67	753.7	50.9	10.5	50	sw.			8		7			0.047	1.2		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.51	749.0	29.93	760 2	59.4	15 2	33	sw.			6		4	wsw.		0	0	stormy	H. Leppig, Asst.
Magdeburg	29.70	754.3	29.88	759.0	59.4	15.2	28	wsw.			3	0	2 k		w.	0	0		Dr. Assmann.
Memel	29.85	758.1	29.89	759.3	53.8	12.1	79	ssw.			3	0	4 ks						lasermann.
Munich	28.22	716.9	30.09	764.3	50.5	13.6	51	calm			0		5	w.		0.004	0.1		Central Station.
Neufahrwasser	29.84	757.9	29.85	758.3	59.2	15.1	55	sw.			4		8			0.047	1.2		A. Lothes.
Neustadt, Palatinate	29.46	748.3	29.99	761.7	56.5	13.6	38	calm			0		1			0.079	2.0		Dickmether.
Stuttgart	29.06	738.1	29.95	760.6	59.9	15.5	27	n.			2		3	w.		0.520	13.2		Prof. Dr. Schoder.
Wustrow	29.71	754.7	29.74	755.4	50.9	10.5	58	sw.			8		10 s			0.047	1.2		Profs. Brandes & Reimer.
GREEK.																			
Athens	29.51	749.5	29.89	759.2	72.0	22.2		sw.			2.0	3 k				0	0		Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.79	756.6	29.84	757.9	82.8	28.2	71	wsw.	34.0	15.2			0			0	0	misty	
Deesa	29.27	743.5	29.73	755.0	98.6	37.0	32	w.	11.7	5.2			0			0	0	blue sky	
Bombay	29.77	756.2	29.81	757.2	85.9	29.9	71	wnw.	15.0	6.7			2	w.		0	0	d. clouds	
Poona, Yarrowda	27.90	708.8	29.70	754.3	95.6	35.3	10	w.	31.0	13.8			5	wsw.		0	0	d. clouds	
Belgaum	27.28	692.9	29.78	756.4	83.0	28.3	64	wsw.	9.0	4.0			8	e.		0	0	misty	
Lahore	28.94	735.2	29.66	753 3	98.2	36.8	17	calm	2.4	1.1			0			0	0	blue sky	
Roorkee	28.82	732.1	29.68	754.0	100.3	37.9	17	sw.	3.3	1.5			3			0	0	blue sky	
Agra	29.05	738.0	29.59	751.6	103.1	39.5	10	w.	7.1	3.2			0			0	0		
Nagpur	28.64	727.5	29.63	752.7	105.5	40.8	14	nw.	3.7	1.6			5		w.	0	0	d. clouds	
Jubbulpore	28.37	720.6	29.67	753.5	102 2	39.0	9	w.	1.7	0.8			0			0	0	blue sky	
Lucknow	29.34	745.3	29.70	754.4	104.9	40.5	25	calm	1.1	0.5			0			0	0	blue sky	
Allahabad	29.35	745.5	29.65	753.1	101.3	38.5	17	nw.	2.3	1.0			0			0	0	blue sky	
Patna	29.50	749.4	29.68	753.9	98.3	36.8	31	ne.	7.0	3.1			0			0	0	blue sky	
Hazaribagh	27.70	703.6	29.63	752.6	97.8	36.6	19	nnw.	7.4	3.3			0			0	0	blue sky	
Cuttack	29.62	752.4	29.70	754.5	89.6	32.0	47	ssw.	6.3	2.8			3			0	0	d. clouds	
Calcutta, Alipore	29.71	754.6	29.73	755.1	87.0	30.6	69	ssw.	9.0	4.0			6	se.		0	0	blue sky	
Dhubri	29.61	752.0	29.72	755.0	85.4	29.7	59	ene.	9.7	4.3			1			0	0	d. clouds	
Chittagong	29.70	754.4	29.79	756.7	83.2	28.4	76	sw.	4.1	1.8			0			0	0	blue sky	
Sibsagar	29.43	747.5	29.76	756.0	84.0	28.9	72	sw.	1.3	0.6			6	w.	w.	0	0	d. clouds	
Jeypore	28.28	718.4	29.67	753.7	97.0	36.1	9	wnw.	8.6	3.8			0			0	0	blue sky	
Zanzibar, Africa	29.93	760.2			80.6	27.0	74	se.	4.1	1.8			5			0.05	1.3	d. clouds	
Bellary	28.28	718.3			100.3	37.9	14	se.	3.3	1.5		3 ck	0			0	0	d. clouds	
Trichinopoly	29.54	750.3			97.3	36.3	35	se.	2	0.9			0			0	0	blue sky	
ITALIAN.																			
Udine	29.69	754.2	30.10	764.5	65.5	18.6	62	sw.	2.5	1.1			1			0	0		Prof. Giovanni Clodig.
Milan	29.54	756.3	30.05	763.3	68.0	20.0	38	e.	2.5	1.1			0			0	0		Prof. Schiaparelli.
Padua	29.96	761.0	30.07	763.8	65.8	18.8	56	sse.	8.7	3.9			2	sw.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.14	740.1	30.04	762.9	65.1	18.4	52	se.	4.9	2.2			2			0	0		Prof. P. F. Denza.
Genoa	29.90	759.5	30.00	764.3	63.1	17.3	69	se.	5.6	2.5			10	se.		0	0		Prof. G. M. Garibaldi.
Mondovi	28.12	714.3	30.08	764.1	62.2	16.8	51	wnw.			2		1	s.		0	0		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
ITALIAN.—Continued.																			
Pesaro	30.11	764.9	30.16	766.1	62.4	16.9	60	e.	4.3	1.9			0			0	0		Prof. Luigi Guidi.
Florence	29.84	757.8	30.09	764.2	65.5	18.6	54	w.			2		2			0	0		Prof. Costantino Pitter.
Leghorn	29.95	760.7	30.03	762.8	63.5	17.5	74	w.	3.8	1.7			1	w.		0	0		Prof. P. Monte.
Rome	29.92	760.0	30.10	764.4	70.5	21.4	54	wnw.	11.2	5.0			2			0	0		Prof. P. S. Ferrari.
Lecce	29.80	757.0	30.05	763.3	66.2	19.0	37	n.	20.6	9.2			0			0	0		Prof. C. de Giorgi.
Cosenza	29.20	741.7	30.08	764.1	66.9	19.4	76	wnw.	4.9	2.2			0			0	0		Prof. D. Conti.
Cagliari	29.78	756.5	29.98	761.4	66.6	19.2	60	se.			4		0			0	0		Prof. A. Pacinotti.
Palermo	29.87	758.6	30.11	764.9	64.9	18.3	51	ne	20.6	9.2			0			0	0		Prof. G. Ciacciatore.
Syracuse	30.01	762.3	30.06	763.4	72.5	22.5	44	s.	11.9	5.3			0			0	0		Prof. Vincenzo Guiliano.
Sub-series.																			
Naples, S. R	29.55	750.5	30.06	763 5	68.4	20.2	66	w.	3.1	1.4			3	ene.		0	0		Prof. T. Brioschi.
Stelvio	22.19	563 7			37.4	3.0	56	sw.			6		4			0	9	misty	Prof. P. F. Denza.
Valdobbia	22.24	564.9			44.6	7.0	62	e.			2		10			0	0	covered	Prof. P. F. Denza.
JAPANESE.																			
Aomori	29.75	755.6	29.79	756.7	42.0	5.6	67	w.	15.6	7.0		0	2 ks			0.258	6.6	fair	K. Ogawa.
Hakodate	29.73	755.1	29.74	755.4	44.0	6.7	60	w.	24.0	10.7			5			0	0	fair	
Hiroshima, I. M. Obs'y	29.98	761.5	30.00	762.0	51.2	10.7	66	nne.	4.6	2.1		0	0			0	0	clear	K. Sasaki.
Kanazawa	29.86	758.4	29.97	761.2	44.9	7.2	82	se.	2.3	1.0		0	0			0	0	clear	S. Endo.
Kioto	29.79	756.6	29.97	761.2	45.6	7.6	84	nnw.	1.7	0.8		0	0			0	0	clear	M. Tojima.
Kochi	29.99	761.7	30.01	762.2	58.0	14.4	61	ne.	4.9	2.2		4 ck	0	w.		0	0	fair	
Nagasaki, I. M. Obs'y	29.85	758.2	30.06	763.5	54.3	12.4	59	n.	2.1	0.9		1 c	0			0	0	clear	S. Takehayashi.
Niigata	29.89	759.2	29.93	760.2	49.8	9.9	60	w.	14.5	6.5		0	0			0	0	clear	
Nobiru	29.80	756.9	29.81	757.2	49.7	9.8	61	n.	11.1	5.0		0	0			0	0	clear	H. Midzushima.
Supporo					42.5	5.8	67	s.	12.0	5.4			2			0.154	3.9	clear	
Tokei Obs'y, Yeddo	29.79	756.6	29.86	758.4	54.7	12.6	91	nne.	5.4	2.4		4 c;ck	0			inap.	inap.	fair	The Staff.
Wakayama	29.93	760.2	29.98	761.5	53.6	12.0	65	ne.	1.5	0.7		4 ck	0	wsw.		0	0	fair	Y. Kuwamuea.
MAURITIUS.																			
Mauritius Observatory	29.83	757.7	30.02	762.5	78.0	25.6	59	ese.	13.0	5.8		0	2 k		se.	0	0	fair	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.67	601.2	29.89	759.2	61.5	16.4	75	e.				0	6 k		w.	inap.	inap.	cloudy	Vicente Fernandez.
Leon	24.34	618.2	29.97	761.2	64.0	17.8	72	nnw.			1	7 c	0	w.		0	0		Prof. M. Leal.
Mazatlan	29.64	752.9	29.90	759.6	67.0	19.4	95	ene.	1.6	0.8		c	10 n		w.	0	0		F. Quijano, C. E.
Mexico, Central Obs'y	23.12	587 3	30.19	766.7	57.6	14.2	79	calm	0	0		6 ck	1 ck		w.	0.138	3.5	foggy	The Staff.
Morelia	24.15	613.5	30.21	767.4	63.1	17.3	80	s.			3	0	0			0	0	fine	M. Tena, M. D.
Pabellon, Aguascallentes	23.96	608.6	29.93	760.3	63.3	17.4	77	calm			0	0	9 k		sw.	0.004	0.1	cloudy	M. V.de Leon, M. E.
Puebla, Catholic Institute	23.39	594.0	30.02	762.6	59.0	15.0	88	calm	0	0		0	0			0	0	clear	Prof. P. Spina.
San Luis Potosi	24.27	616.4	30.28	769.0	62.6	17.0	61	sse.			1		10	w.		0	0	covered	G. Barroeta, M. D.
Zacatecas	22.53	572.3	30.13	765.2	58.5	14.7	76	ssw.	6.2	2.7		7 c	0			0	0		J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.89	759.2	29.89	759.2	51.8	11.0		w.			5					0.051	1.3		
Groningen	29.72	754.9	29.78	756.3	49.5	9.7		wsw.			6					0.224	5.7		
Helder	29.76	755.9	29.76	755.9	47.1	8.4		sw.			6					0	0		
Hellevoetsluis	29.85	758.1	29.85	758.1	51.4	10.8	62	wsw.			3					0.154	3.9		
Utrecht	29.83	757.6	29.87	758.8	54.5	12.5	47	wsw.			5		2			0.008	0.2	lightly cl'dy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.10	739.2	29.17	740.8	54.7	12.6	46	e.	13	6			8			0.354	9.0	raining	
Brono	29.40	746.8	29.44	747.8	57.2	14.0	61	se.	18	8			2			0.031	0.8		
Christiania	29.21	741.9	29.35	745.6	43.3	6.3	87	se.	4	2			9			0.630	16.0		
Gjaesvaer	29.70	754.4	29.72	755.0	41.5	5.3		s.			4		5						
Lodingen	29.49	749.1	29.54	750.3	44.6	7.0	80	ssw.			2		10					raining	
PORTUGUESE.																			
Angra, Azores					59.7	15.4	75	nne.	5.6	2.5			3			0	0		Dr. J. A. Sampaio.
Campo Major	28.92	734.5	29.90	759.4	68.4	20.2	48	wnw.	8.7	3.9			7			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	29.98	761.5	30.07	763.7	68.4	20.2	61	sw.					2			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.65	753.0	30.00	762.1	61.3	16.3	59	nnw.	17.4	7.8			8			blank	blank		The Staff.
Ponta Delgada, Azores	30.29	769.3	30.36	771.1	61.5	16.4	53	n.	6.9	3.1			5			0	0		
Saint Paul de Loando	29.70	754.4	29.90	759.4	82.0	27.8	87	w.	0.7	0.3			2	sse.		0	0		
Serra da Estrella	25.15	638.8	29.95	760.7	39.9	4.4	84	w.	19.2	8.6			10			0	0	foggy	
RUSSIAN.																			
Akmolinski	28.59	726.1	29.65	753.0	54.0	12.2	88	ssw.	9	4			10 kn			0.181	4.6		Major K. Lasarew.
Archangel	30.16	766.1	30.18	766.6	41.2	5.1	61	nnw.	4	2		0	0			0	0		Capt. Saellwerstow.
Astrakhan	29.93	760.3	29.85	758.2	70.0	21.1	33	nnw.	4	2		0	8 ks			blank	blank		Capt. Wisganow.
Barnaul	29.50	749.2	29.99	761 8	55.6	13.1	37	ne.	0	0			0			0	0		Meteorological Obs'y.
Dorpat	29.63	752.5	29.85	758.3	75.2	24.0	42	s.	11	5		0	6 k			0.016	0.4		Observatory.
Ekaterinburg	28.82	732.0	29.79	756.7	41.4	5.2	69	nne.	4	2			10			0.122	3.1		Meteorological Obs'y.
Kasan	29.54	750.2	29.80	756.9	61.5	16.4	44	n.	4	2			10			0	0		Observatory.
Kertch	29.71	754.5	29.72	755.0	64.4	18.0	68	calm	0	0		5 c	0			0	0		Lagorio & Sastyrex.
Kieff	29.23	742.4	29.84	757.8	72.0	22.2	21	ne.	4	2		c	3 ks			0	0		Observatory.
Lugan	29.56	750.9	29.76	755.9	74.7	23.7	31	nnw.	18	8			4			0	0		Meteorological Obs'y
Moscow	29.37	746.0	29.82	757.5	68.5	20.3	40	wnw.	4	2		0	8 ks			0	0		Meteorological Obs'y.
Nikolaiev	29.81	757.2	29.88	759.0	67.5	19.7	80	calm	0	0		cs	8 n			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor	29.48	748.8	29.57	751.0	39.2	4.0	88	calm	0	0			10			0.016	0.4		Lieut. Iwanow.
Pekin, China	29.41	747.0	29.55	750.6	75.6	24.2	16	sw.	22	10		0	0			0	0		Physical Observatory
St. Petersburg	29.94	760.4	29.95	760.8	71.2	21.8	33	se.	16	7		1 cs	0			0	0		Central Physical Obs'y
Semipalatinsk	29.22	742.2	29.87	758.6	60.4	15.8	52	ne.	2	1		3 c	0			0	0	light clouds	Major Lasaren.
Tashkend, Laboratory	28.37	720.6	29.89	759.2	70.7	21.5	56	calm	0	0			10			0	0	heavy cl'ds.	Teich, A. M.
Tiflis	28.43	722.1	29.78	756.5	73.9	23.3	38	se.	2	1			9 k			0	0		Physical Observatory
Vladivostock	29.62	752.3	29.69	754.0	41.7	5.4	62	nw.	7	3		0	0			0	0		
Warsaw	29.50	749.4	29.92	759.9	63.5	17.5	44	wsw.	9	4		cs	9 k						Astronomical Obs'y
Wilna	29.48	748.8	29.89	759.1	68.5	20.3	54	ssw.	7	3			10			0	0	heavy cl'ds.	Berg, Assistant.
Yeniseisk	29.77	756.2	30.07	763.8	31.8	— 0.1	43	nw.	7	3			0			0	0		M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	29.84	757.9	29.95	760.6	65.8	18.8	64	e.	1.8	0.8			0			0	0		Antonio Rave, Director.
Bilbao, Met. Obs'y	29.82	757.3	29.87	758.8	68.5	20.3	58	nw.	2.7	1.2		2	5	w.		0.024	0.6	cloudy	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	26.93	683.9	29.82	757.4	63.0	17.2	57	sw.	9.4	4.2			7			0	0	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27.65	702.2	29.78	756.4	74.7	23.7	31	sw.	17.4	7.8		0	4			0	0	cloudy	The Staff.
Murcia, Met. Obs'y	27.70	754 3	29.84	757.9	78.1	25.6	57	ese.	5.6	2.5		4	5	ene.		0	0	almost cov'd	Olayo Diaz, Director.
Santiago, Met. Obs'y	28.99	736.4	29.89	759.2	55.9	13.3	70	w.	9.8	4.4			7			0.122	3.1	cloudy	R. Gil Vallanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I	29.94	760.6	30.01	762.2	76.1	24.5	79	calm	0	0		3 c	4 k;s	wnw.	sw.	0	0	fair	Benito Vines, S. J.
Manilla, Philippine Islands	29.89	759.1	29.95	760.6	83.8	28.8	68	n.	0.7	0.3		3 c	2 ks		e.	0	0	fair	F. Faura, S. J.
San Fernando, Naval Obs'y	29.79	756.5	29.88	758.9	72.9	22.7	50	nw.	3.6	1.6		0	8		w.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	29.96	761.0	30.05	763.3	78.1	25.6	83	calm	0	0		2 s	3 k	ne.	se.	0	0		Manuel Maeu.
Tuguegarao, Philippine Id's	29.87	758.9	30.03	762.0	76.9	24.9	87	nnw.	1.4	0.6			10 n		nnw.	0.13	3.3	covered	José L. Yrastorza.
SWEDISH																			
Haparanda	29.79	756.7	29.83	757.7	47.1	8.4	62	se.			4		8			0.169	4.3		
Umea	29.63	752.5	29.68	753.8	47.5	8.6	100	e.			2		10			0.370	9.4		
Hernosand	29.55	750.5	29.60	751.8	41.7	5.4	91	calm			0		10			0.020	0.5		
Stockholm	29.47	748.6	29.65	753.1	53.2	11.8	65	sse.			4		10			0.138	3.5		
Wisby	29.61	752.1	29.67	753.6	56.8	13.8	59	sw.			6		7			0.094	2.4		
Sub-series.																			
Upsala	29.50	749.4	29.59	751.6	56.3	13.5	62	sse.	12.5	5.6			7	ssw.	s.	0.004	0.1		S. G. Fineman.
SWISS.																			
Geneva	28.57	725.6	29.98	761.6	58.1	14.5	57	n.			1					0	0	covered	The Observatory

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mil.	Inch.	Mil.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mil.		
TURKISH.																			
Constantinople	.....	.....	29.84	757.9	57.4	14.1	64	n.	13	6.0	.....	.....	10	.....	n.	0	0	.....	The Observatory.
Valona	.....	.....	30.08	704.1	65.7	18.7	.....	nw.	.....	.....	1	.....	0	.....	.....	0.63	16.	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	29.84	757.9	72.1	22.3	65	wsw.	.....	.....	3	0	3 s	.....	sw.	0	0	.....	Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	29.95	760.7	30.03	762.7	52	11.1	52	n.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	J. C. Barnes.
Alpena, Michigan	29.44	747.8	30.13	765.3	32	0.0	60	nw.	8	3.6	.....	0	5 s	.....	nw.	0.01	0.3	fair	Jas. J. Fitzgerald.
Atlanta, Georgia	28.88	733.5	30.07	763.8	53.5	11.9	61	nw.	11	4.9	.....	0	0	.....	.....	0	0	clear	H. Hall.
Atlantic City, New Jersey	29.90	759.4	29.91	759.7	49	9.4	89	ne.	12	5.4	.....	6 k	0	n.	.....	0.63	16.0	fair	Jas. M. Watson.
Augusta, Georgia	29.84	757.9	30.02	762.5	61	16.1	84	n.	2	0.9	.....	0	5 k	.....	.....	0.65	16.5	fair	John Healy.
Baltimore, Maryland	29.92	760.0	29.97	761.2	56	13.3	62	n.	4	1.8	.....	6ck;hs	0	w.	.....	0	0	fair	Robert Seyboth.
Barnegat, New Jersey	29.90	759.4	29.92	760.0	48.0	8.9	83	n.	15	6.7	.....	4 cs	3 k	.....	w.	0.22	5.6	fair	Chas. F. Merritt.
Bismarck, Dakota	28.27	718.0	30.14	765.5	38	3.3	64	nw.	8	3.6	.....	4 ck	0	w.	.....	0	0	fair	Cyrus Cramer.
Boise City, Idaho	27.28	692.9	30.12	765.0	50.5	10.3	66	w.	1	0.4	.....	0	0	.....	.....	0	0	clear	B. E. Light.
Boston, Massachusetts	29.80	756.9	29.96	761.0	43.0	6.1	92	nw.	2	0.9	.....	.....	10 s	.....	.....	0	0	cloudy	O. B. Cole.
Brownsville, Texas	30.04	763.0	30.10	764.5	67	19.4	93	n.	10	4.5	.....	.....	10 n	.....	.....	0.58	14.7	light rain	J. C. Galloway.
Buffalo, New York	29.30	744.2	30.07	763.8	40.4	4.7	60	s.	1	0.4	.....	4 ck	0	w.	.....	0	0	fair	Wm. Finn.
Burlington, Vermont	29.73	755.1	30.03	762.7	42.0	5.6	79	calm	0	0	.....	.....	10 s	.....	w.	0.03	0.8	cloudy	G. C. Schaeffer.
Cairo, Illinois	29.88	758.9	30.29	769.4	47.7	8.7	67	n.	8	3.6	.....	0	0	.....	.....	0	0	clear	W. H. Ray.
Campo, California	27.33	694.2	29.91	759.7	41	5.0	67	se.	4	1.8	.....	0	0	.....	.....	0	0	clear	W. H. Clendenon.
Camp Thomas, Arizona	27.22	691.4	29.95	760.7	61.5	16.4	53	se.	.....	.....	2	3 cs	0	.....	.....	0	0	clear	J. T. Fitzgerald.
Cape Henry, Virginia	29.93	760.2	29.95	760.7	53	11.7	86	n.	12	5.4	.....	.....	10 s	.....	n.	1.13	28.7	cloudy	J. E. Lanouette.
Cape May, New Jersey	29.91	759.7	29.94	760.5	51	10.6	86	ne.	10	4.5	.....	.....	10 ks	.....	nw.	0.55	14.0	cloudy	W. Bolten.
Cedar Keys, Florida	29.98	761.5	30.00	762.0	71	21.7	82	nw.	11	4.9	.....	5 c	0	.....	.....	0	0	fair	F. W. Mixer.
Champaign, Illinois	29.36	745 7	30.20	767.1	38.5	3.6	78	n.	20	8.9	.....	.....	10 s	.....	n.	0	0	cloudy	L. A. Welsh.
Charleston, S. Carolina	29.89	759.2	29.95	760.7	63	17.2	84	n.	10	4.5	.....	.....	10 s	.....	n.	0.26	6.6	threatening	J. H. Smith.
Charlotte, N. Carolina	29.13	739.9	29.99	761.7	54.0	12.2	93	n.	8	3.6	.....	.....	10 s	.....	ne.	0.16	4.1	cloudy	D. O. Donoghue.
Chattanooga, Tennessee	29.33	745.0	30.16	766.1	50.0	10.0	52	nw.	8	3.6	.....	0	0	.....	.....	0	0	clear	B. L. Goulding.
Cheyenne, Wyoming	24.15	613.4	30.15	765.8	29.8	— 1.2	80	nw.	4	1.8	.....	0	0	.....	.....	0.01	0.3	clear	E. McGovern.
Chicago, Illinois	29.45	748.0	30.18	766.6	38.0	3.3	75	n.	8	3.6	.....	8 k	0	n.	.....	0	0	cloudy	J. Mitchell.
Chincoteague, Virginia	29.91	759.7	29.93	760.2	51	10.6	93	n.	15	6.7	.....	3 c	3 k	w.	w.	0.15	3.8	fair	V. P. Temple.
Cincinnati, Ohio	29.47	748.5	30.14	765.5	44.6	7.0	77	se.	2	0.9	.....	0	0	.....	.....	0	0	clear	R. B. Watkins.
Cleveland, Ohio	29.33	745.0	30.09	764.3	42.6	5.9	64	s.	4	1.8	.....	4 k	0	nw.	.....	0	0	fair	J. B. Newlin.
Coleman City, Texas	28.46	722.9	30.28	769.1	49	9.4	66	ne.	9	4.0	.....	6 c	0	.....	.....	0	0	fair	L. Dorman.
Columbus, Ohio	29.23	742.4	30.10	764.5	42	5.6	73	nw.	1	0.4	.....	0	0	.....	.....	0	0	clear	D. Cuthbertson.
Concho, Texas	28.34	719.8	30.28	769.1	53	11.7	80	ne.	12	5.4	.....	.....	10 s	.....	n.	0	0	cloudy	W. W. McConihe.
Davenport, Iowa	29.58	751.3	30.25	768.3	41	5.0	65	nw.	5	2.2	.....	0	0	.....	.....	0	0	clear	R. R. Martin.
Dayton, Washington T'y	28.37	720.6	30.12	765.0	40.4	4.7	84	ne.	3	1.3	.....	0	0	.....	.....	0	0	clear	H. Clifford.
Deadwood, Dakota	25.54	648.7	30.23	767.8	33	0.6	74	sw.	4	1.8	.....	0	0	.....	.....	0	0	clear	G. W. Scott.
Decatur, Texas	.....	.....	.....	.....	49	9.4	56	ne.	10	4.5	.....	5 ck	0	nw.	.....	0	0	fair	D. J. Carr.
Delaware Breakwater, Del.	29.91	759.7	29.93	760.2	49	9.4	93	ne.	14	6.3	.....	.....	10 s	.....	ne.	0.68	17.3	cloudy	A. Schneider.
Denison, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. McGlone.
Denver, Colorado	24.83	630.7	30.10	764.5	35.0	1.7	69	s.	6	2.7	.....	4 cs	0	calm	.....	0.10	2.5	fair	F. M. Neal.
Des Moines, Iowa	29.38	746.2	30.31	769.9	34	1.1	71	n.	4	1.8	.....	0	0	.....	.....	0	0	clear	F. W. Conrad.
Detroit, Michigan	29.34	745.2	30.07	763.8	42.5	5.8	65	ne.	10	4.5	.....	5 k	0	calm	.....	0	0	fair	C. F. R. Wappenhans.
Dodge City, Kansas	27.65	702.3	30.29	769.4	43	6.1	76	calm	0	0	.....	0	0	.....	.....	0	0	clear	E. A. Thomas.
Dubuque, Iowa	29.51	749.5	30.24	768.1	37.5	3.1	72	w.	2	0.9	.....	0	hz.	.....	calm	0	0	clear	J. Harvey Smith.
Duluth, Minnesota	29.30	744.2	30.02	762.5	39	3.9	54	sw.	12	5.4	.....	0	0	.....	.....	0	0	clear	N. B. Conger.
Eagle Pass, Texas	29.42	747.3	30.23	767.8	61.2	16.2	100	n.	15	6.7	.....	.....	10 n	.....	.....	0.75	19.0	light rain	F. Belford.
Eagle Rock, Idaho	25.41	645.4	30.13	765.3	32	0.0	74	s.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. M. Clifford.
Eastport, Maine	30.01	762.2	30.08	764.0	38	3.3	94	e.	2	0.9	.....	.....	fg.	.....	.....	0.01	0.3	dense fog	J. H. Melton.
El Paso, Texas	26.41	670.8	30.15	765.8	54	12.2	51	e.	11	4.9	.....	.....	10 ks	.....	se.	0	0	cloudy	J. F. Marshall.
Erie, Pennsylvania	29.32	744.7	30.07	763.8	43	6.1	74	calm	0	0	.....	0	0	.....	.....	0	0	clear	R. H. Paxton.
Escanaba, Michigan	29.45	748.0	30.14	765.5	34	1.1	60	w.	4	1.8	.....	0	0	.....	.....	0	0	clear	C. Dill.
Florence, Arizona	28.33	719 6	29.83	757.7	74.0	23.3	40	e.	18	8.0	.....	2 k	0	s.	.....	0	0	clear	R. R. Herman.
Fort Apache, Arizona	25.04	636.0	29.96	761.0	45	7.2	58	ne.	1	0.4	.....	0	3 s	.....	calm	0	0	clear	W. C. Barnes.
Fort Assinnaboine, Montana	27.42	696.5	30.32	770.1	30	— 1.1	60	sw.	7	3.1	.....	0	0	.....	.....	0	0	clear	B. O. Lenoir.
Fort Bennett, Dakota	28.54	724.9	30.18	766.6	43	6.1	60	w.	6	2.7	.....	8 ck	0	w.	.....	0	0	cloudy	T. Gibson.
Fort Benton, Montana	27.48	698.0	30.34	770.6	30	— 1.1	70	calm	0	0	.....	0	0	.....	.....	0	0	clear	S. Wheaton.
Fort Buford, Dakota	28.15	715.0	30.22	767.6	40	4.4	67	w.	12	5.4	.....	3 cs	0	calm	.....	0	0	clear	A. H. Bell.
Fort Custer, Montana	27.06	687.3	30.24	768.1	30	— 1.1	88	sw.	4	1.8	.....	0	0	.....	.....	0	0	clear	V. Verge.
Fort Davis, Texas	25.28	642.1	30.07	763.8	46	7.8	86	n.	12	5.4	.....	.....	10 ks	.....	n.	inap.	inap.	cloudy	J. Williams.
Fort Elliott, Texas	27.47	697.7	30.25	768.3	40	4.4	50	s.	2	0.9	.....	3 k	0	s.	.....	0	0	clear	W. J. Cundall.
Fort Gibson, Indian T'y	29.74	755.4	30.32	770.1	40.5	4.7	91	calm	0	0	.....	.....	fg.	.....	.....	0	0	dense fog	J. B. Campbell.
Fort Grant, Arizona	25.25	641.3	29.98	761.5	59.9	15.5	30	se.	6	2.7	.....	0	5 k	.....	.....	0	0	fair	T. J. Macgowan.
Fort Keogh, Montana	27.72	704.1	30.26	768.6	32	0.0	62	sw.	6	2.7	.....	0	0	.....	.....	0	0	clear	W. B. Stockman.
Fort Macon, North Carolina	29.91	759.7	29.92	760.0	57	13.9	93	ne.	17	7.6	.....	.....	10 s	.....	ne.	0.27	6.9	cloudy	L. Leonardy.
Fort McKavett, Texas	27.91	708.9	30.17	766.3	57	13.9	77	se.	8	3.6	.....	.....	10 s	.....	.....	0.18	4.6	cloudy	J. E. Thatcher.
Fort Missoula, Montana	26.93	684.0	30.24	768.1	30	— 1.1	88	nw.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. H. Jones.
Fort St. Michaels, Alaska	30.43	772.9	30.47	773.9	28	— 2.2	88	n.	5	2.2	.....	0	5 s	.....	n.	0	0	fair	A. P. Leavitt.
Fort Shaw, Montana	26.63	676.4	30.30	769.6	25	— 3.9	64	w.	11	4.9	.....	0	0	.....	.....	0	0	clear	A. L. Mathews.
Fort Sill, Indian Territory	29.07	738.4	30.31	769.9	43	6.1	76	calm	0	0	.....	4 c	0	w.	.....	0	0	fair	T. Cleary.
Fort Stevenson, Dakota	28.21	716.5	30.11	764.8	35	1.7	88	w.	6	2.7	.....	0	8 ks	.....	w.	0	0	cloudy	W. Burrows
Fort Verde, Arizona	.....	.....	.....	.....	55.2	12.9	42	sw.	.....	.....	1	4 cs	0	s.	.....	0	0	fair	D. Brooks.
Fort Washakie, Wyoming	24.61	625 1	.....	.....	27.1	— 2.7	80	w.	4	1.8	.....	1 k	0	.....	.....	inap.	inap.	clear	T. M. Ambler.
Fredericksburg, Texas	28.45	722.6	30.17	766.3	54	12.2	86	ne.	8	3.6	.....	.....	10 s	.....	.....	0.24	6.1	cloudy	H. S. Miles.
Galveston, Texas	30.11	764.8	30.15	765.8	66	18.9	69	e.	20	8.9	.....	.....	10 s	.....	e.	0	0	cloudy	E. O'C. MacInerney.
Grand Haven, Michigan	30.44	773.2	30.13	765.3	37.0	2.8	72	nw.	10	4.5	.....	0	0	.....	.....	inap.	inap.	clear	W. A. Reid.
Hatteras, North Carolina	29.90	759.4	29.92	760.0	55	12.8	93	n.	30	13.4	.....	.....	10 k	.....	ne.	0.02	0.5	cloudy	R. M. Crawford.
Helena, Montana	26.02	660.9	30.28	769.1	34	1.1	65	w.	6	2.7	.....	0	0	.....	.....	0	0	clear	N. C. Smith.
Henrietta, Texas	29.35	745.5	30.38	771.6	46.0	7.8	76	calm	0	0	.....	5 c	0	.....	.....	0	0	fair	J. W. Byram.
Huron, Dakota	28.78	731.0	30.23	767.8	39	3.9	73	s.	10	4.5	.....	.....	10 s	.....	.....	0	0	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.31	744.5	30.13	765.3	46	7.8	83	nw.	7	3.1	.....	0	0	.....	.....	0	0	clear	O. Schutze
Indianola, Texas	30.11	764.8	30.14	765.5	67.4	19.7	78	n.	25	11.2	.....	.....	10 ks	.....	nw.	1.01	25.7	cloudy	I. A. Reed.
Jacksboro, Texas	29.14	740.1	30.32	770.1	47	8.3	77	n.	1	0.4	.....	5 ck	4 s	w.	.....	0	0	cloudy	J. P. Sherry.
Jacksonville, Florida	29.52	760.0	29.96	761.0	70	21.1	84	nw.	4	1.8	.....	2 cs	0	.....	.....	inap.	inap.	clear	J. W. Smith.
Keokuk, Iowa	29.58	751.3	30.26	768.6	40.5	4.7	68	nw.	2	0.9	.....	0	0	.....	.....	0	0	clear	F. Z. Gosewisch
Key West, Florida	29.99	761.7	30.01	762.2	78.5	25.8	72	se.	2	0.9	.....	8 cs	2 k	.....	se.	0	0	cloudy	L. M. Melbourne.
Kittyhawk, North Carolina	29.93	760.2	29.95	760 7	52.5	11.4	96	n.	21	9.4	.....	.....	10 n	.....	n.	0.74	18.8	light rain	E. A. Beals.
Knoxville, Tennessee	29.11	739.4	30.15	765.8	49	9.4	56	n.	7	3.1	.....	0	2 s	.....	.....	0	0	clear	J. A. Cody.
La Crosse, Wisconsin	29.46	746.7	30.20	767.1	40	4.4	73	s.	4	1.8	.....	0	0	.....	.....	0	0	clear	S. C. Emery.
La Mesilla, New Mexico	26.25	666.7	30.13	765.3	55.2	12.9	53	se.	6	2.7	.....	.....	10 s	.....	.....	0	0	cloudy	N. D. Lane.
Leavenworth, Kansas	29.42	747.3	30.33	770.4	43	6.1	68	calm	0	0	.....	0	0	.....	.....	0	0	clear	A. W. Browne.
Lewiston, Idaho	29.33	745 0	30.18	766.6	42	5.6	73	e.	1	0.4	.....	0	0	.....	.....	0	0	clear	W. Blake.
Little Rock, Arkansas	29.96	761.0	30.28	769.1	50	10.0	64	nw.	5	2.2	.....	0	0	.....	.....	0	0	clear	W. U. Simmons.
Los Angeles, California	29.53	750.0	29.93	760 2	50.0	10.0	100	nw.	1	0.4	.....	.....	fg.	.....	.....	0	0	dense fog	E. F. Kubel.
Louisville, Kentucky	29.56	750.8	30.13	765.3	48	8.9	71	sw.	4	1.8	.....	0	0	.....	.....	0	0	clear	H. C. Smyth.
Lynchburg, Virginia	29.31	744.5	30.02	762.5	54.5	12.5	74	calm	0	0	.....	0	6 s;ks	.....	w.	0.18	4.6	clearing	W. R. Bushby.
Madison, Wisconsin	29.17	740.9	30.21	767.3	36	2.2	79	n.	5	2.2	.....	0	0	.....	.....	0	0	clear	C. A. Shaw.
Marquette, Michigan	29.35	745.5	30.10	764.5	38	3.3	54	w.	12	5.4	.....	0	0	.....	.....	inap.	inap.	clear	J. Gilligan.
Mason, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	P. M. Wilson.
Memphis, Tennessee	29.91	759.7	30.25	768.3	51	10.6	93	nw.	2	0.9	.....	0	0	.....	.....	0	0	clear	D. T. Flannery.
Milwaukee, Wisconsin	29.42	747.3	30.19	766.8	35	1.7	69	nw.	5	2.2	.....	0	0	.....	.....	0	0	clear	W. Line.
Mobile, Alabama	30.07	763.8	30.11	764.8	60	15.6	65	n.	9	4.0	.....	5 c	0	nw.	.....	0	0	fair	J. D. Paxton.

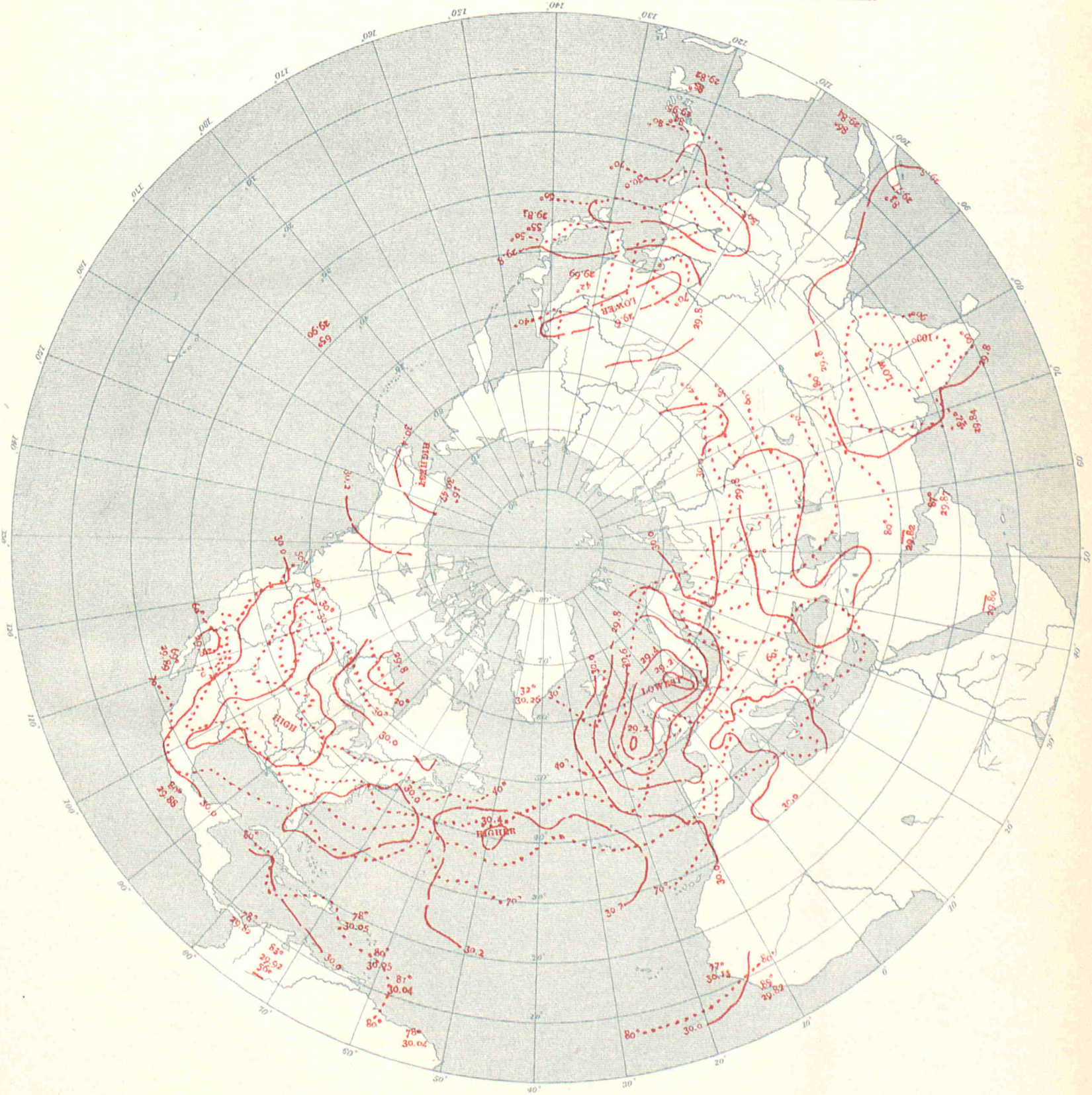
STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
United States.—Cont'd.																			
Montgomery, Alabama	29.88	758.9	30.11	764.8	58	14.4	64	n.	8	3.6		1 ck	0	w.		0.24	6.1	clear	J. B. McLaughlin.
Moorhead, Minnesota	29.01	736.8	30.04	763.0	39	3.9	65	sw.	14	6.3		0	0			0	0	clear	H. Bessant.
Morgantown, W. Virginia	29.05	737.9	30.09	764.3	50.0	10.0	59	calm	0	0		hz.	0			0	0	clear	G. C. Lewis.
Mt. Washington, N. H.	23.68	601.5	30.08	764.0	22.0	— 5.6	84	calm	0	0		5 cs	3 s	sw.		0.43	10.9	cloudy	J. G. Linsley.
Nashville, Tennessee	29.66	753.4	30.20	767.1	47.5	8.6	73	w.	2	0.9		1 cs	0	w.		0	0	clear	L. A. Jesunofsky.
New Haven, Connecticut	29.81	757.2	29.93	760.2	50	10.0	44	n.	14	6.3		9 c	0			0	0	cloudy	J. H. Sherman.
New London, Connecticut	29.89	759.2	29.94	760.5	52	11.1	72	n.	4	1.8		7 k	0	calm		0	0	fair	J. G. Lynch.
New Orleans, Louisiana	30.07	763.8	30.13	765.3	65.2	18.4	63	n.	11	4.9		10c;cs	0	nw.		0.16	4.1	cloudy	S. Dunne.
Newport, Rhode Island	29.86	758.4	29.91	759.7	47.8	8.8	97	ne.	7	3.1			10 n		calm	0.20	5.1	light rain	W. McGillivray.
New River, N. Carolina					56	13.3	86	n.			1		10 s		w.	0.04	1.0	cloudy	C. C. Corbin.
New Shoreham, Rhode I'd.	29.86	758.4	29.90	759.4	44.4	6.9	100	ne.	16	7.2			10 n		ne.	0.81	20.6	light rain	W. Davis.
New York, New York	29.78	756.4	29.96	761.0	49	9.4	56	n.	6	2.7		4 cs	3 s	w.		0	0	fair	E. B. Garriott.
Norfolk, Virginia	29.94	760.5	29.97	761.2	55	12.8	80	n.	10	4.5		0	9 ks		n.	1.11	28.2	cloudy	J. T. Elker.
North Platte, Nebraska	27.29	693.2	30.25	768.3	38.6	3.7	62	calm	0	0		0	4 s			0	0	fair	E. F. Brady.
Olympia, Washington T'y	30.00	762.0	30.04	763.0	40.5	4.7	89	n.	1	0.4		0	0			0	0	clear	J. Dascomb.
Omaha, Nebraska	29.13	739.9	30.34	770.6	40.3	4.6	65	sw.	4	1.8		0	8 k		sw.	0	0	cloudy	A. Pollak.
Ooglaamie, Pt. Barrow, Alas.	30.45	773.4	30.47	773.9	15.6	— 9.1	98	wnw.	26	11.6			10 s			0.02	0.5	cloudy	P. H. Ray.
Oswego, New York	29.70	754.4	30.04	763.0	44.5	6.9	64	sw.	3	1.3		1 ck	0			0	0	clear	S. W. Beall.
Palestine, Texas	29.71	754.6	30.27	768.8	54.0	12.2	62	n.	12	5.4		8 c	0			0	0	fair	L. M. Pindell.
Pensacola, Florida	30.06	763.5	30.09	764.3	62.3	16.8	75	n.	8	3.6		7 c	0			0.46	11.7	fair	M. McGauran.
Philadelphia, Pa.	29.87	758.7	29.97	761.2	50	10.0	77	ne.	8	3.6		5 ck	0	nw.		0	0	fair	T. F. Townsend.
Pike's Peak, Colorado	17.76	451.1	30.04	763.0	14	—10.0	53	nw.	28	12.5		3 cs	0			0	0	clear	L. M. Dey.
Ploche, Nevada	24.05	610.9	30.04	763.0	46.4	8.0	47	w.	3	1.3		0	0			0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.25	742.9	30.08	764.0	45.0	7.2	60	nw.	3	1.3		0	0			0	0	clear	J. H. Bryce.
Port Eads, Louisiana	30.09	764.3	30.10	764.5	68.1	20.1	76	n.	22	9.8		7 c	0	w.		0.48	12.2	fair	H. G. Christian.
Port Huron, Michigan	29.39	746.5	30.09	764.3	35.0	1.7	94	ne.	14	6.3			10 s			0	0	cloudy	W. O. Bailey.
Portland, Maine	29.96	761.0	30.01	762.2	45.0	7.2	68	n.	7	3.1			10 s		calm	0	0	cloudy	D. O. Murphy.
Portland, Oregon	29.91	759.7	29.97	761.2	53.0	11.7	48	nw	6	2.7		0	0			0	0	clear	M. L. Hearne.
Portsmouth, N. Carolina					58	14.4	69	ne.	31	13.9			10 ks		ne.	0.23	5.8	cloudy	F. P. Chaffee.
Prescott, Arizona	24.74	628.4	29.96	761.0	43	6.1	24	s.	3	1.3		0	0			0	0	clear	J. McN. Wright.
Provincetown, Mass.	29.93	760.2	29.96	761.0	44	6.7	100	n.	6	2.7			10 n			0.16	4.1	light rain	P. T. Jenkins.
Punta Rassa, Florida	29.98	761.5	29.99	761.7	76.5	24.7	76	n.	1	0.4		3 c	1 k	calm	calm	0	0	fair	W. J. Evans.
Red Bluff, California	29.52	749.8	29.89	759.2	57.1	13.9	74	nw.	3	1.3		0	0			0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.96	761.0	30.20	767.1	67	19.4	93	nw.	6	2.7			10 s		nw.	1.50	38.1	cloudy	W. H. Taylor.
Rochester, New York	29.36	745.7	30.05	763.3	44	6.7	60	calm	0	0		hz.	sk.			c	0	dense smoke	A. T. Sherwood.
Roseburg, Oregon	29.41	747.0	29.97	761.2	50.2	10.1	86	e.	1	0.4		0	0			0	0	clear	J. J. Nanry.
Sacramento, California	29.81	757.2	29.89	759.2	56.5	13.6	74	se.	4	1.8		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.66	753.4	30.27	768.8	44.0	6.7	68	nw.	9	4.0		0	0			0	0	clear	J. H. Webber.
St. Paul, Minnesota	29.26	743.2	30.15	765.8	36.0	2.2	69	sw.	16	7.2		9 ck	0	n.		0	0	cloudy	P. F. Lyons.
St. Vincent, Minnesota	29.02	737.1	29.93	760.2	38	3.3	82	w.	16	7.2		0	4 k		w.	0	0	fair	G. Kingsbury.
Salt Lake City, Utah	25.68	652.3	30.05	763.3	47	8.3	52	ne.	2	0.9		0	0			0	0	clear	J. Craig.
San Antonio, Texas	29.48	748.8	30.18	766.6	60.1	15.6	60	ne.	10	4.5			10 s		ne.	inap.	inap	cloudy	E. Lane.
San Diego, California	29.81	757.2	29.88	758.9	56.6	13.7	91	w.	3	1.3			fg.			0	0	dense fog	A. C. Dobbins.
Sandusky, Ohio	29.36	745.7	30.06	763.5	46.8	8.2	63	s.	4	1.8		0	5 s		sw.	0	0	fair	M. H. Perry.
Sandy Hook, New Jersey	29.92	760.0	29.96	761.0	48.0	8.9	86	n.	5	2.2		5 k	5 s	n.	calm	0	0	cloudy	B. A. Blundon.
San Francisco, California	29.89	759.2	29.96	761.0	52	11.1	86	sw.	5	2.2			fg.		w.	0	0	dense fog	N. Gorom.
Santa Fé, New Mexico	23 33	592.6	30.09	764.3	41	5.0	70	s.	16	7.2			10 s		s.	0	0	cloudy	H. U. Jones.
Savannah, Georgia	29.88	758.9	29.97	761.2	64	17.8	84	nw.	12	5.4			10 ks		nw.	0.36	9.1	threatening	H. W. Ford.
Shreveport, Louisiana	30.01	762.2	30.25	768.3	54	12.2	74	n.	6	2.7		5 c	0	n.		0	0	fair	E. N. Meekins.
Silver City, New Mexico	24.36	618.7	30.04	763.0	47	8.3	66	se.	4	1.8		0	6 ks		calm	0	0	fair	J. B. Wallace.
Sitka, Alaska	30.14	765.5	30.20	767.1	42.2	5.7	54	calm	0	0		3 c	0	nw.		0	0	clear	J. J. McLean.
Smithville, North Carolina	29.90	759.4	29.94	760.5	58	14.4	80	ne.	8	3.6			10 s		ne.	0.15	3.8	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	28.14	714.7	30.20	767.1	43	6.1	60	ne.	5	2.2		0	0			0	0	clear	D. Moore.
Springfield, Illinois	29.54	750.3	30.24	768.1	42	5.6	60	nw.	4	1.8		0	0			0	0	clear	T. B. Jennings.
Springfield, Massachusetts	29.82	757.4	29.96	761.0	51.0	10.6	59	n.	7	3.1		5 c	0	w.		0	0	fair	T. S. Outram.
Springfield, Mo.	28.83	732.3	30.35	770.9	43	6.1	68	n.	1	0.4		0	fg.			0	0	clear	J. B. Marbury.
Stockton, Texas	27.20	690.9	30.24	768.1	52.0	11.1	69	calm	0	0			10 s		se.	0.02	0.5	cloudy	J. O'Dowd.
Thatcher's Island, Mass.	29.90	759.4	29.95	760.7	42.8	6.0	78	ne.	10	4.5			10 s		ne.	0	0	cloudy	G. Liebmann.
Toledo, Ohio	29.36	745 7	30.07	763 8	46	7.8	68	w.	2	0.9			9 ks		sw.	0	0	cloudy	A. Buell.
Tucson, Arizona	27.44	697.0	29.84	757.9	70	21.1	43	se.	6	2.7		4 ck	0			0	0	fair	J. L. Whiteside.
Umatilla, Oregon	29.80	756.9	30.17	766.3	40	4.4	82	se.	4	1.8		0	0			0	0	clear	J. Daly.
Uvalde, Texas	29.22	742.2	30.19	766.8	60	15.6	81	ne.	6	2.7		10 cs	0	w.		0.17	4.3	cloudy	E. C. Imlay.
Vicksburg, Mississippi	29.95	760.7	30.21	767.3	58	14.4	81	n.	1	0.4		5 cs	0	calm		0	0	fair	T. J. Kenan.
Visalia, California	29.50	749 3	29.87	758.7	59.5	15.3	65	nw.	3	1.3		0	0			0	0	clear	J. T. Cochran.
Washington, D. C.	29.87	758.7	29.99	761.7	53.2	11.8	64	nw.	6	2.7		4 ck	0	nw.		0	0	fair	B. M. Purssell.
West Las Animas, Colorado	26.20	665.5	30.16	766.1	42.5	5.8	88	sw.	4	1.8		0	2 s		sw.	0.10	2.5	clear	J. Grover.
Wickenburg, Arizona					53	11.7	63	calm			0	0	0			0	0	clear	H. A. Kremp.
Williamsport, Pa.	29.42	747.3	30.02	762.5	48.5	9.2	76	n.	1	0.4			10 ks		nw.	0	0	cloudy	B. F. Hough.
Wilmington, N. Carolina	29.89	759 2	29.95	760.7	58	14.4	80	ne.	8	3.6			10 s		ne.	0.32	8.1	cloudy	E. W. McLann.
Winnemucca, Nevada	25.63	651.0	30.03	762.7	45	7.2	63	ne.	10	4.5		0	0			0	0	clear	J. R. Williams.
Yankton, Dakota	28.92	734.6	30.26	768.6	41	5.0	73	w.	6	2.7			10 ks			0	0	cloudy	J. H. Atfield.
Yuma, Arizona	29.59	751.6	29.74	755.4	62.0	16.7	70	nw.	2	0.9		0	0			0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.04	559.8			56.0	13.3	72	nw.	4.8	2.1		5 k	5 s;n	nw.	nw.	0	0	cloudy	Joaquin Gomez.
Bridgetown, Barbados, W.I.	30.03	762.7	30.04	763.0	81	27.2	78	e.				5 k	5 ks	e.	e.	0	0	fair	J. A. Racker.
Buenaventura, U. S. C.																			J. I. Plume.
Guadeloupe, W. I.	29.93	760.2	29.95	760.7	80	26.7	79	se.				2 c	2 ks			0	0		B. Bigar.
Havana, Cuba, W. I.	29.98	761.5	30.04	763.0	79	26.1	77	se.	1.2	0.5		1 cs	5 ks	calm	calm	0	0	fair	A. Van Caneghem.
Kingston, Jamaica, W. I.	30.02	762.5	30.03	762.7	78.2	25.7	74	calm	0	0		0	0			0	0		Robert Johnston.
Nassau, W. I.																			F. M. Everett.
Paramaribo, S. A.	30.04	763 0	30.04	763 0	78	25.6	91	e.			2		8 ks	e.	e.	1.150	29.2	cloudy	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.46	748.3	29.92	760.0	83	28.3	85	s.			1		10 s		calm	0	0	foggy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.							93	ne.			2	0	3 ks			0	0	fair	Earl Flint.
Santiago de Cuba, W. I.	30.01	762.2	30.04	763.0	78	25.6	72	calm	0	0		0	5 ks			0	0	fair	Robert Mason.
York Factory, B. A.	29.65	753.1	29.70	754.4	14.0	—10.0	100	n.	34	15.2			10 n		n.	0.03	0.8		W. Wood.

STATIONS AND VESSELS.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
BRITISH NAVAL.																		
H. M. S. Alert, S. 9° 29′ E. 50° 58′	29.92	760.0	82	27.8	74	se.			3–4		4							d. clouds.
H. M. S. Alexandra, Malta, Mediterranean	30.15	765.8	65.5	18.6	70	ne.			1		1							blue sky.
H. M. S. Amethyst, N. 42° 27′, W. 11° 08′	29.89	759.2	54	12.2	90	w.			3–5		2	w.				7	wnw.	showery.
H. M. S. Bacchante, Beirut Bay, Palestine	29.83	757.7	70	21.1	75	w.			2		2	sw.						d. clouds.
H. M. S. S. S. Champion, S. 17° 35′ W. 85° 50′			70	21.1	79	ese.			5		9	calm				4	e.	d. clouds.
H. M. S. Cleopatra, N. 5° 49′, E. 96° 34′	29.77	756.1	82.5	28.1	87	w.			2		2	calm						blue sky.
H. M. S. Comus, N. 4° 55′, E. 120° 57′	29.82	757.4	83	28.3	95	calm			0		1							blue sky.
H. M. S. Dido, N. 18° 26′, W. 66° 00′	30.08	764.0	78	25.6		se.			1		4	ene.						d. clouds.
H. M. S. Druid, N. 16° 40′, W. 77° 10′	29.97	761.2	80	26.7	88	ese.			3–4		2	se.				2–3	e.	d. clouds.
H. M. S. Dryad, N. 28° 59′, E. 50° 50′	29.72	754.9				wnw.			2		5	nw.				3	nw.	d. clouds.
H. M. S. Dwarf, S. 32° 18′, W. 58° 25′	30.24	768.1	52	11.1	79	ene.			1		7					1	e.	d. clouds.
H. M. S. Fantome, N. 19° 56′ W. 69° 23′	30.02	762.5	81	27.2		ese.			3		1	ese.				2	ese.	blue sky.
H. M. S. Gannet, S. 29° 56′, W. 71° 20′	30.02	762.5	56	13.3	87	e.			1		10							misty.
H. M. S. Garnet, Colonia, Uruguay	30.34	770.6	56	13.3	80	ne.			1		0							blue sky.
H. M. S. Inconstant, Simon's Bay, Cape Colony	29.90	759.4	57	13.9	93	wnw.			1–2		8	w.				1	wnw.	d. clouds.
H. M. S. Iron Duke, N. 24° 25′, E. 123° 33′	30.00	762.0	73	22.8	95	nne.			5–6		8	ne.				4	ne.	squally.
H. M. S. Lark, S. 8° 57′, E. 158° 03′	29.88	758.9	84.3	29.1		ene.			2		7					1	e.	d. clouds.
H. M. S. Magpie, N. 35° 50′, E. 141° 31′	29.83	757.7	54.7	12.7	76	ne.			3–4		10					5	nne.	d. clouds.
H. M. S. Malabar, N. 39° 45′, W. 9° 26′	29.97	761.2	57	13.9	81	wnw.			2–3		2	wnw.				5	wnw.	d. clouds.
H. M. S. Nelson, Sydney, N. S. Wales	30.01	762.2	66	18.9	64	sw.			1–2		0							blue sky.
H. M. S. Northampton, Bermuda, W. I.	30.05	763.3	71.5	21.9	95	e.			3		4	e.						d. clouds.
H. M. S. Orontes, N. 32° 14′, W. 56° 40′	30.24	768.1	69.5	20.8	92	se.			3		6	sse.				2	sse.	d. clouds.
H. M. S. Pegasus, N. 1° 17′, E. 103° 52′	29.84	757.9	86	30.0	79	nw.			1		2							d. clouds.
H. M. S. Phœnix, N. 26° 42′, W. 64° 46′	30.09	764.3	75	23.9	95	calm			0		1					1	ese.	blue sky.
H. M. S. Rambler, Elephant Bay, Benguela	29.87	758.7	80	26.7	95	w.			3		0							blue sky.
H. M. S. Rocket, Esquimalt, Vancouver Island, B. C.	30.14	765.5	41	5.0		calm			0		9							d. clouds.
H. M. S. Tenedos, N. 44° 40′ W. 63° 35′	30.11	764.8	40.5	4.7	91	sse.			1		10							foggy.
H. M. S. Triumph, Coquimbo, Chili	30.01	762.2	56	13.3	93	calm			0		10	calm						foggy.
H. M. S. Woodlark, Muscat, Arabia	29.77	756.1	86.5	30.3	58	calm			0		0					2	nw.	blue sky.
PORTUGUESE NAVAL.																		
Rio Lima, Bulama, Senegambia	30.13	765.2	77.0	25.0	90	nne.			4		2		nne.			3	nne.	d. clouds.
Tamega, Macon, China	29.95	760.7	73.4	23.0	87	sw.			3		10			18 h'r	18 h'r	2	sw.	overcast.
SWEDISH NAVAL.																		
Balder, N. 42° 26′ W. 37° 18′	30.30	769.6	58.5	14.7	80	ssw.			3		9							misty.
UNITED STATES NAVAL.																		
Navy Yard, Pensacola, Fla	30.05	763.3	63	17.2	72	n.	6	2.7			2		nw.	0	0			fair.
Naval Hospital, Portsmouth, N. H.	30.19	766.8	42	5.6	83	ne.	6	2.7			10		ne.	0	0			cloudy.
Naval Hospital, Yokohama, Japan	29.65	753.1	59	15.0	76	nw.			3		5		ne.	0	0			hazy.
Adams, Pichilinque, Mexico	29.64	752.8	67	19.4	95	sse.			2		5			0	0	sm'h		
Alaska, Panama, Panama	29.82	757.4	78	25.6	91	calm			0		2		n.	0.10	2.5			fair.
Alert, Kobe, Japan*	29.85	758.2	59	15.0	65	calm			0		2		calm	0	0	sm'h		hazy.
Alliance, Hampton Roads, Va	29.98	761.5	56	13.3	87	ne.			2		10		ne.	h'vy	h'vy	sm'h		cloudy.
Ashuelot, Kobe, Japan	29.96	761.0	57	13.9	75	n.			2		5		nw.					fair.
Brooklyn, Montevideo, Uruguay	30.30	769.6	58	14.4	88	n.	3	1.3			2		calm	0	0	mod.		clear.
Colorado, New York, N. Y.	29.91	759.7	50	10.0	58	ne.	3	1.3			10		calm	0	0			cloudy.
Enterprise, Hampton Roads, Va*	29.93	760.2	54	12.2	87	nne.			3		10		ne.			sm'h		cloudy.
Essex, S. 24° 13′, W. 40° 05′	30.11	764.8	78	25.6	73	ne.			2		2					mod.	se.	clear.
Franklin, Norfolk, Va	29.98	761.5	55	12.8	80	nne.	12	5.4			10		n.	0.19	4.8			cloudy.
Galena, Villafranca, France	30.05	763.3	04	17.8	89	e.			1		2					sm'h		clear.
Independence, Mare Island, Cal	29.78	756.4	54	12.2	93	sw.			4		0			0	0			clear.
Irquois, Mare Island, Cal	29.91	759.7	55	12.8	80	sw.			4		2		sw.					hazy.
Kearsage, Hampton Roads, Va*†	30.15	765.8	54	12.2	93	nne.			3		10					sm'h		cloudy.
Lackawanna, Casma, Peru*†	30.03	762.7	62	16.7	94	calm			0		10							foggy.
Lancaster, Villafranca, France*	30.04	763.0	63	17.2	83	ese.			3		8		se.	0	0			fair.
Marion, S. 22° 28′, W. 21° 36′	30.23	767.8	74	23.3	90	ese.			5		8		ese.			mod.	ese.	cloudy.
Michigan, Erie, Pa	30.06	763.5	41	5.0	100	s.			1		0							clear.
Minnesota, Newport, R. I.	29.88	758.9	42	5.6	?	nne.	3	1.3			10							overcast.
Monocacy, Kobe Japan	29.98	761.5	56	13.3	75	ne.			1		2		calm					fair.
New Hampshire, Newport, R. I.	29.86	758.4	46	7.8	100	ne.			1		10					sm'h		rainy.
Nipsic, Villafranca, France	30.05	763.3	64	17.8	73	e.			2		5					long	ssw.	fair.
Onward, Callao, Peru†	30.06	763.5	62	16.7	94	sse.			2		10		n.			long	w.	cloudy.
Palos, Kobe, Japan	29.99	761.7	54	12.2	49	wnw.			1		0							clear.
Passaic, Washington, D. C.	29.99	761.7	55	12.8	87	nw.			1		2		nw.					fair.
Pensacola, Callao, Peru	29.95	760.7	63	17.2	94	sse.	2	0.9			10			0	0	sm'h		misty.
Powhatan, Kew West, Florida	30.12	765.0	80	26.7	87	sse.			2		5		se.					fair.
Portsmouth, N. 46 28′, W. 26° 08′	30.11	764.8	51	10.6	65	nnw.			6		8		n.			r'gh	n.	cloudy.
Quinnebang, Villafranca, France	30.05	763.3	64	17.8	73	e.			4		5?		se			sm'h		clear.?
Ranger, Altata Bar, Mexico*	29.79	756.7	68	20.0	95	calm			0		8		calm	0	0	sm'h		foggy.
Richmond, Kobe, Japan*	29.91	759.7	59	15.0	54	ne.			1		0			0	0			clear.
Saratoga, N. 46° 43′ W. 23° 34′	29.91	759.7	47	8.3	77	w.			6		5		nw.	light	light	rg'h	nw.	fair.
Shenandoah, New York, N. Y*	30.00	762.0	51	10.6	100	n.			3		8					sm'h		cloudy.
St. Louis, League Island, Pa	30.21	767.3	50	10.0	86	sw.	6	2.7			8		nne.	0	0			cloudy.
Swatara, Chefoo, China*	29.65	753.1	64	17.8	52	n.			1		1		sw.			sm'h		clear.
Tennessee, Fort Monroe, Va	30.00	762.0	57	13.9	87	nne.	9	4.0			8		nne.	1.13	28.7			cloudy.
Vandalia, Hampton Roads, Va†	30.23	767.8	53	11.7	93	n.			3		10		sw.					cloudy.
Wabash, Boston, Mass.	29.97	761.2	45	7.2	84	calm	5	2.2			10		n.	0	0			cloudy.
Wachusetts, Sitka, Alaska	30.12	765.0	40	4.4	91	n.			0		2		wnw.			sm'h		fair.
Wyoming, Port Royal, S. C.	29.93	760.2	62	16.7	94	n.	12	5.4			10		nw.	0.10	2.5			overcast.
Yantic, Fort Monroe, Va*†	30.20	767.1	54	12.2	87				3		8							cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Circassian, N. 54° 16′ W. 15° 20′	29.19	741.4	46	7.8	85	s.			6		7		se.	5 h'r	5 h'r	4	con.	raining.
S. S. Polynesian, N. 47° 23′ W. 59° 27′*	29.88	758.9	33	0.6		sse.			2		1			1 h'r	1 h'r	sm'h		fair.
S. S. Scandinavian, N. 42° 38′, W. 55° 56′*	30.18	766.6	38	3.3		se.			4		3		s.	o	o	light	w.	d. clouds.
S. S. Waldensian, Glasgow, Scotland*	29.36	745.7	39	3.9		w.			5		2		w.	o	o			clear.
AMERICAN STEAMSHIP COMPANY.																		
S. S. Illinois, Liverpool, Eng	29.55	750.6	57	13.9	93	sw.			5		5		sse.					fair.
S. S. Indiana, N. 48° 00′ W. 28° 02′†	30.18	766.6	51	10.6	32	nnw.			6		8		n.	light	light	mod.	ne.	cloudy.
S. S. Ohio, N. 47° 43′, W. 31° 05′			42	5.6	100	nw.			6		6		nnw.			h'vy	nw.	squally.
ANCHOR LINE.																		
S. S. Bolivia, N. 51° 31′, W. 28° 21′†	30.01	762.2	40	4.4		nw.			6		7		nne.	rain	rain	h'vy	n.	
S. S. Ethiopia, N. 42° 50′, W. 54° 30′	30.35	770.9	51.5	10.8	94	se.			3		1		sw.	o	o	sm'h		clear.
S. S. Galatia, N. 42° 31′, W. 54° 19′†	30.32	770.1				ssw.			3		1		sw.	o	o	sm'h	ssw.	clear.
S. S. India, N. 17° 21, E. 67° 40′*	29.84	757.9	91	32.8	84	calm			0		0							clear.
ATLAS LINE.																		
S. S. Alsa, Savanilla, U. S. C.†	30.10	764.5	79	26.1	90	ne.			2		1		ne.	o	o	sm'h		fine.
S. S. Athos, N. 18° —′, W. 76° —′	29.37	746.0				calm			0		0			o	o		e.	clear.
S. S. Claribel, N. 18° 12′, W. 73° 25′*†	30.16	766.1	82	27.8	83	calm			0		3		calm	o	o	sm'h		fine.
BRITISH METEOROLOGICAL OFFICE.																		
S. S. Arran, S. 29° 25′, W. 29° 34′	30.26	768.6	73.5	23.1	65	ene.			5		4							d. clouds.
British Merchant, S 26° 14′ E 53° 27′	30.05	763 3	81.5	27.5	65	wnw.			0–1		2							d. clouds.
Glencairn, S. 16° 29′, E. 83° 30′	29.99	761.7	79	26.1	78	e.			4		5							d. clouds.
Julia H., N. 25° 55′, W. 77° 02′	30.04	763.0	75	23.9	77	s.			3		3							d. clouds.
Minho, N. 35° 40′, W. 11° 32′	30.04	763.0	66.5	19.2	81	n.			4		8							d. clouds.
CUNARD LINE.																		
S. S. Gallia, N. 42° 01′, W. 61° 21′	30.13	765.3	45	7.2	84	sse.			5		8		se.	o	o	sm'h		hazy.
S. S. Marathon, N. 42° 23′, W. 66° 37′			40	4.4		ne.			10		10		ssw.	7 h'r	7 h'r	light	ssw.	raining.
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. Canada, N. 41° 04′, W. 53° 26′	30.35	770.8	53.6	12.0		e.			3		9		se.	o	o	sm'h	wnw.	covered.
S. S. St. Germain, N. 50° 00′ W. 3° 40′			48.2	9.0		sw.			5				sw.	rain	rain	mod.	sw.	hazy.
GUION LINE.																		
S. S. Arizona, N. 41° 20′, W. 64° 10′	30.00	762.0	53	11.7		ese.			5		10		sw.	o	o	sm'h		overcast.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Bohemia, N. 47° 25′, W. 30° 57′*†	30.11	764.8				nw.			4		4		nw.	o	o	long	nw.	fine.
S. S. Cimbria, N. 48° 54′, W. 7° 34′	29.58	751.3	51.8	11.0		s.			4		7		ssw.	1 h'r	1 h'r	mod.	sw.	fair.
S. S. Gellert, N. 41° 00′, W. 56° 20′	30.34	770.6	65	18.3		se.			3		5		se.	o	o	mod.	se.	fair.
S. S. Lessing, Hamburg, Germany	29.90	759.4	46	7.8		ese.			8		8		ese.	o	o			cloudy.
S. S. Silesia, N. 49° 20′, W. 13° 14′.†	29.67	753.6	53.6	12.0		wnw.			6		2		w.	rain	rain	7	nnw.	squally.
S. S. Wieland, N. 42° 03′, W. 49° 04′	30.45	773.4	41	5.0		n.			3		5		nne.	2 h'r	2 h'r	3	n.	fair.
INMAN LINE.																		
S S. City of New York. N. 47° 43′, W. 32° 05′	30.23	767.8				nnw.			4		6		nnw.	o	o	mod.	ne.	fair.
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, S. 30° —′, W. 48° —′*†	30.30	769.6	74	23.3		ssw.			4		6		sse.	1 h'r	1 h'r	long	sse.	cloudy.
MALLORY LINE.																		
S. S. Colorado, New York, N. Y.†	30.08	764.0	48	8.9		n.			2		6		n.	o	o			fair.
MERCHANTS' EXPRESS LINE.																		
S. S. Freja, N. 40° 45′, W. 61° 12′†	30.21	767.3	61	16.1	88	se.			4		2			o	o	sm'h		fine.
MERCHANTS' STEAMSHIP COMPANY.																		
S. S. Glenapp, N. 11° 23′, W. 53° 39′*†	30.00	762.0				e.			4		6		ne.	o	o	mod.	ne.	fine.
NATIONAL LINE.																		
S. S. Denmark, N. 49° 20′, W. 11° 30′	29.62	752.3	54	12.2		sw.			4		2		wsw.	2 h'r	2 h'r	long	sw.	clear.
S. S. England, N. 40° 59′, W. 63° 07′	30.20	767.1				sse.			5		2			o	o	sm'h	s.	clear.
S. S. Erin, N. 49° 42′, W. 13° 07′	29.53	750.0	45	7.2		wsw.			10		9		w.	12 h'r	12 h'r	high	w.	squally.
S. S. Helvetia, N. 49° 51′, W. 20° 27′			47	8.3		nw.			7					rain	rain	high	nnw.	squally.
S. S. Italy, N. 46° 34′, W. 31° 30′	30.27	768.8	53	11.7	73	nnw.			6		2		nnw.	o	o	long	n.	clear.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Niagara, Havana, Cuba, W. I.†	30.06	763.5	77	25.0		calm			0		0			o	o			clear.
NEW YORK HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, N. 30° 15′ W 77° 32′*†	30.03	762.7	75	23.9	81	ssw.			4		10		ssw.	2 h'r	2 h'r	cross	se.	rain & hail.
S. S. City of Puebla, N. 25° 32′, W. 79° 55′†	29.94	760.5	80	26.7		se.			2		8		sse.			mod.	ne.	
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Alvena, N. 18° 30′, W. 66° 08†	30.00	762.0	76	24.4		var.			1							sm'h		clear.
S. S. Olbers, N. 12° 51′, W. 26° 30′*†	30.08	764.0	77	25.0		ne.			4–5								nne.	fine.
S. S. P. Caland, N. 39° 58′ W. 54° 38′	30.32	770.1	59.0	15.0		ene.			3									
NORTH GERMAN LLOYD.																		
S. S. Elbe, N. 42° 11′ W. 44° 40′	30.35	771.0	54.5	12.5	81	nnw.			5		5		n.	o	o	mod.	n.	fair.
S. S. Graf Bismarck, S 21° 30′, W. 40° 15′	30.17	766.3	78.8	26.0		nne.			3		2		ne.	o	o	sm'h	e.	fair.
S. S. Hapsburg, N. 41° 38′, W. 57° 59′	30.23	767.8	54.5	12.5		se.			3–4		5?		se.	o	o	sm'h	se.	cloudy.
S. S. Hermann, N. 39° 05′ W. 63° 38 †	29.89	759.2	64.4	18.0		se.			5		8		se.	2 h'r	2 h'r	cross	se.	rainy.
S. S. Kronprinz F. Wilhelm, N. 40° 30′, W. 73° 09′	29.90	759.4	47.3	8.5		wnw.			3		10		nw.	10 h'r	10 h'r	2	wnw.	cloudy.
S. S. Main, N. 49° 44′, E. 15° 30′	29.57	751.1	46.4	8.0		wsw.			6		9		wsw.	4 h'r	4 h'r	h'vy	w.	hailing.
S. S. Nurnburg, N. 38° 42′, W. 76° 28′*	29.96	761.0	53 6	12.0		ne.			2		5			8 h'r	8 h'r	sm'h		fair.
S. S. Oder, N. 40° 29′, W. 69° 58′	29.81	757.2	42.8	6.0		nne.			5		10		n.	3 h'r	3 h'r	mod.	se.	cloudy.
S. S. Ohio, Bremerhaven, Germany	29.75	755.6				wsw.			8		5		wsw.	4 h'r	4 h'r			fair.
S. S Rhein, Bremerhaven, Germany	29.66	753.4				w.			8–9		5		w.	o	o			squally.
S. S. Saller, N. 51° 45′, E. 2° 18′	29.84	757.9	48.2	9.0		wsw.			6		0			o	o	r'gh	wsw.	clear.
S. S. Strassburg, N. 48° 57′, W. 20° 21′	29.71	754.6	47.0	8.3	92	nw.			6		6		nnw.	2 h'r	2 h'r	cross	nnw.	clearing.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Belgic, N 36° 36′ W. 170° 41′†	29.90	759.4	65	18.3	84	s.			6		10		sw.	rain	rain	high	sse.	cloudy.
S. S. Oceanic, Hong Kong, China*	29.80	756.9	81	27.2	83	se.			5									cloudy.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, N. 33° 32′, W. 74° 48′†	30.01	762.2				n.			5		10?		n.	o	o			clear?
S. S. Seminole, N. 37° 08′, W. 74° 22′†	29.92	760 o	51	10.6	93	nne.			5		fg			12 h'r	12 h'r	mod.	w.	dense fog.
OREGON IMPROVEMENT COMPANY.																		
S. S. Mississippi, W. 44° 17′, W. 124° 44′			51	10.6	93	s.			1		0					mod.	wsw.	clear.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. City of Chester, N. 41° 57′, W. 124° 45′*†	30.00	762.0	53	11.7	86	nw.			1		0					small	nw.	clear.
S. S. Columbia, Eagle Cliff, Columbia River, Oregon†	29.99	761.7	46	7.8	92	nnw.			1		0							clear.
S. S. Oregon, N. 45° 32′, W. 124° 13′†	29.99	761.7	51	10.6	86	ne.			1		0							clear
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, N. 34° 30′, W. 120° 36′†	29.86	758.4	51	10.6	93	n.			4		0					mod.	wnw.	hazy.
S. S. Idaho, Seattle, Wash. Ter.†	29.74	755.4	50	10.0	79	calm			0		0							clear.
S. S. State of California, San Francisco, Cal.†	29.95	760.7	48	8.9	85	w.			2		5		w.					fair.
S. S. Victoria, N. 38° 06′, W. 123° 10′†	29.84	758.0	49	9.4	100	nw.			3		5			o	o	mod.	w.	fair.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, S. 14° 55′, W. 171° 12′	29.84	757.9	79	26.1	86	ne.			2		5		ene.			sm'h	ene.	fine.
S. S. City of New York, Sydney, N. S. W.†	29.77	756.1	63	17.2	83	sw.			2		1		sw.	o	o			clear.
S. S. City of Pekin, N. 36° 03′, W 121° 40′†	29.87	758.7	52	11.1	100	nw.			0		0					light	nw.	clear.
S. S. City of Rio de Janeiro, Panama, Panama*†	30.08	764 o	79	26.1	82	nw.			1		1		nw.			sm'h	nw.	clear.
S. S. City of Tokio, N 35° 26′, E. 139° 39′†	29.80	756.9	63	17.2	83	se.			2		10		se.	o	o			fine.
S. S. Clyde, N. 23° 59′, W. 111° 50′†	29 89	759.2	69	20.6	90	nw.			3		10		nw.	o	o	light	nw.	hazy.
S. S. Grenada, N. 15° 34′, W. 97° 06†	29.88	758.9	80	26.7	82	calm			0		10		e.	o	o	light	ssw.	cloudy.
S. S. South Carolina, Acajutla, San Salvador, C. A.†	29.97	761.2	85	29.4	62	n.			1		5		n.	o	o	sm'h		dense haze.
S. S. Zelandia, S. 34° 59′, E. 177° 25′	29.56	750.8	69	20.6	85	w.			6		5		w.			mod.	w.	squally.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.			Force.	Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.			Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mil.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
QUEBEC STEAMSHIP CO.																		
S. S. Muriel, N. 28° 25′ W. 67° 12′	30.06	763.5	77	25.0	.....	e.	.....	.....	2	.....	0	.....	.....	0	0	mod	e.	fair.
S. S. Bermuda, Bridgetown, Barbadoes, W. I.†	30.04	763.0	63?	17.2?	.....	ene.	.....	.....	2	.....	6	.....	ne.	0	0	g'tl	se.	fine.
RED STAR LINE.																		
S. S. Belgenland, N. 40° 08′, W. 62° 00′†	30.29	769.4	59	15.0	94	sw.	.....	.....	5	.....	3	.....	sw.	0	0	mod.	nw.	fair.
S. S. Nederland, N. 45° 03′, W. 26° 55′*†	30.28	769.1	50	10.0	.....	nw.	.....	.....	5	.....	10	.....	nnw.	2 h'r	2 h'r	mod.	nw.	cloudy.
S. S. Switzerland, N. 48° 55′. W. 15° 18′	29.64	752.8	.....	.....	.....	wsw.	.....	.....	5	.....	5	.....	w.	8 h'r	8 h'r	h'vy	w.	squally.
S. S. Vaderland, N. 44° 35′, W. 38° 14′	30.03	762.7	56	13.3	87	s.	.....	.....	4	.....	10	.....	ssw.	0	0	mod.	sw.	cloudy.
S. S. Waesland, Antwerp, Belgium	29.85	758.2	59	15.0	.....	w.	.....	.....	5	.....	5	.....	w.	4 h'r	4 h'r	.....	.....	fair.
ROTTERDAM LINE.																		
S. S. Schiedam, N. 49° 28′ W. 13° 38′*	29.58	751.3	48.9	9.4	84	wsw.	.....	.....	6	.....	3	.....	w.	5 h'r	5 h'r	high	wnw	fair.
STATE LINE.																		
S. S. State of Florida, N. 55° 32′, W. 7° 14′	29.44	747.8	49	9.4	.....	ssw.	.....	.....	4	.....	5?	.....	wsw.	0	0	sm'h	.....	clear.?
S. S. State of Georgia, Off North of Ireland†	29.49	749.0	48	8.9	.....	s.	.....	.....	5	.....	2	.....	s.	.....	.....	mod.	nw.	squally.
THINGVALLA LINE.																		
S. S. Thingvalla, Brooklyn, N. Y.†	30.14	765.5	47.3	8.5	.....	ne	.....	.....	2	.....	2	.....	ne.	0	0	.....	.....	clear.
WARREN LINE.																		
S. S. Iowa, N. 52° 02′ W. 7° 20′*†	29.72	754.9	41	5.0	.....	wsw.	.....	.....	6	.....	10	.....	wsw.	9 h'r	9 h'r	mod.	ssw.	squally.
WHITE CROSS LINE.																		
S. S. Plantyn, N. 40° 33′, W. 45° 08′	30.32	770.1	.....	.....	.....	var.	.....	.....	1–3	.....	3	.....	ne.	0	0	sm'h	.....	clear.
WHITE STAR LINE.																		
S. S. Adriatic, N. 47° 27′, W. 36° 00′†	30.20	767.1	52	11.1	.....	sw.	.....	.....	5	.....	10	.....	nnw.	shr's	sh'rs	long	nne.	misty.
S. S. Baltic, N. 41° 48′, W. 61° 33′†	30.05	763.3	52	11.1	86	ese.	.....	.....	4	.....	10	.....	sw.	4 h'r	4 h'r	sm'h	con.	misty.
S. S. Celtic, N. 41° 08′, W. 54° 46′†	30.37	771.4	52	11.1	.....	ese.	.....	.....	4	.....	5	.....	se.	0	0	sm'h	.....	fair.
WILSON LINE.																		
S. S. Otranto, N. 46° 49′, W. 36° 13′†	30.16	766.1	54	12.2	.....	sw.	.....	.....	4	.....	.....	.....	w.	.....	.....	cross	nnw.	heavy rain.
S. S. Salerno, Falmouth, Eng*	29.65	753.1	52.8	11.6	73	ssw.	.....	.....	6	.....	8	.....	ssw.	.....	.....	.....	.....	squally.
WINSOR LINE.																		
S. S. Catherine Whiting, Montauk Point, L. I†	29.96	761.0	.....	.....	.....	nne.	.....	.....	2	.....	.....	.....	nnw.	0	0	sm'h	.....	
S. S. Norman, N. 39° 49′, W. 73° 52′	29.89	759.2	.....	.....	.....	nne.	.....	.....	2	.....	9	.....	ne.	8 h'r	8 h'r	mod.	e.	cloudy.
MISCELLANEOUS.																		
Schr. Abbie Clifford, N. 29° 45′ W. 51° 45′*†	30.27	768.8	78	25.6	.....	e.	.....	.....	3	.....	1	.....	ene.	0	0	sm'h	n.	fair.
Sch. Addie Fuller, Newport News, Va†	30.01	762.2	54	12.2	93	n.	.....	.....	.....	0	5 k	.....	n.	1.49	37.8	.....	.....	fair.
Bk. Adelaide, Rio de Janeiro, Brazil*†	30.15	765 8	82	27.8	.....	ese.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Schr. Ajax, N. 28° 17′, W. 90° 38′†	30.16	766.1	.....	.....	.....	ne.	.....	.....	3	.....	10	.....	ne.	3 h'r	3 h'r	mod.	.....	hazy.
Bk. Alpha, Santiago de Cuba, W. I.†	29.95	760.7	78	25.6	.....	calm	.....	.....	0	.....	1	.....	.....	0	0	.....	.....	fair.
Bk. Antioch, S. 39° 56′ E. 58° 10′*†	29.60	751.8	56.5	13.6	.....	wsw.	.....	.....	8	.....	10	.....	wsw.	5 h'r	5 h'r	mod.	wsw.	rainy.
Schr. Asa Eldridge, Key West. Fla†	30.01	762.2	.....	.....	.....	sse	.....	.....	3	.....	5?	.....	w.	0	0	.....	.....	cloudy?.
Bk. Aureola, S. 19° 07′, W. 37° 52′*†	30.24	768.1	96	35.6	.....	sse.	.....	.....	1	.....	0	.....	.....	0	0	mod.	ese.	clear.
Schr. Annie M. Small, S. 36° 02′, E. 95° 20′*†	29.40	746.7	62	16.7	.....	.....	.....	.....	.....	.....	.....	.....	.....	24 h'r	24 h'r	.....	.....	
Bkt. Carrie Heckle, Cienfuegos, Cuba, W. I.*†	30.10	764.5	80	26.7	.....	ne.	.....	.....	1	.....	1	.....	ne.	0	0	.....	.....	fair.
Bk. Champion, Bremerhaven, Germany†	29.71	754.6	.....	.....	.....	wsw.	.....	.....	3	.....	5	.....	sw	8 h'r	8 h'r	.....	.....	
S. S Compton, New Orleans, La†	30.11	764.8	.....	.....	.....	n.	.....	.....	3	.....	3	.....	nne.	0	0	.....	.....	clear.
S. Dora, N. 42° 10′, W. 35° 00′†	30.44	773.2	58.5	14.7	.....	wsw.	.....	.....	2	.....	5	.....	w.	1 h'r	1 h'r	long	n.	fair.
S. E. J. Spicer, N. 40° 23′, W 36° 18′†	30.37	771.4	.....	.....	.....	ssw.	.....	.....	3	.....	5	.....	sw.	0	0	mod.	ne.	
S. Enoch Train, N. 41° 25′, W. 55° 38′*	30.22	767.6	.....	.....	.....	se	.....	.....	4	.....	3	.....	se.	0	0	light	wnw.	clear.
S. Exporter, S 21° 30′, W. 33° 00′*†	30.25	768.3	.....	.....	.....	se. to n	.....	.....	4	.....	.....	.....	.....	24 h'r	24 h'r	h'vy	cross	squally.
Ship Festina Lente, N. 37° 08′, W. 67° 15′*	29.97	761.2	67	19.4	.....	ssw.	.....	.....	6	.....	10	.....	sw.	2 h'r	2 h'r	sm'h	ssw.	threatening.
U. S. F. C. S. FishHawk, Quantico, Va.†	30.10	764.5	56	13.3	74	nw.	.....	.....	2	.....	9	.....	calm	0	0	.....	.....	cloudy.
S. Grecian, S. 40° 03′, E. 61° 37′*†	29.55	750.6	50	10.0	.....	wsw.	.....	.....	6	.....	8	.....	wsw.	1 h'r	1 h'r	cross	s.	cloudy.
Bk. Freya, Queenstown, Ireland	.....	.....	45	7.2	.....	w.	.....	.....	6	.....	5	.....	w.	2 h'r	2 h'r	.....	.....	hailing.
Bk. Granville, Algoa Bay Africa*†	29.96	761.0	.....	.....	.....	e.	.....	.....	.....	.....	.....	.....	.....	0	0	.....	.....	cloudy.
Bk Hattie G. McFarland, N. 38° 30′, W. 73° 40′	29.80?	756.9?	50	10.0	.....	nnw.	.....	.....	3	.....	10	.....	ne.	16 h'r	16 h'r	.....	.....	
S. Hedwig, N. 41° 01′, W 65° 54′	29.92	760.0	45.0	7.2	95	e.	.....	.....	4	.....	10	.....	wsw.	1 h'r	1 h'r	2	sse.	
Schr. John L. Thomas, Serrana Cays, C. A.*†	30.08	764.0	.....	.....	.....	ne.	.....	.....	.....	.....	4	.....	e.	0	0	light	ne.	fine.
Bg. John Wesley, N. 30° 40′ W. 79° 30′†	30.07	763.8	76	24.4	.....	ene.	.....	.....	4	.....	9	.....	.....	0	0	mod.	ne.	cloudy.
Bk. Josephine, N. 13° 39′ W. 75° 33′*†	30.02	762.5	82	27.8	74	ene.	.....	.....	6	.....	2	.....	.....	0	0	mod.	ne.	hazy.
Bkt. Kryolith, N. 47° 29′, W. 14° 14′*†	29.78	756.4	.....	.....	.....	w.	.....	.....	6	.....	2	.....	w.	0	0	mod.	nw.	clear.
S. Lake Erie, Off Tuskar, Ireland	29.59	751.6	.....	.....	.....	ssw.	.....	.....	6	.....	5	.....	sw.	0	0	mod.	.....	squally.
S. S. Lamperts, N. 36° 19′, W. 3° 50′*	29.86	758.4	64	17.8	83	ene.	.....	.....	2	.....	7	.....	.....	.....	.....	.....	.....	misty.
Light House Tender, Laurel, N. 26° 20′ W. 82° 20′†	30.04	763.0	77	25.0	.....	nw.	.....	.....	1	.....	4	.....	nw.	0	0	.....	.....	fair.
Schr. Maggie Abbott, N. 23° —′, W. 74° —′*†	29.98	761.5	.....	.....	.....	s.	.....	.....	.....	.....	.....	.....	.....	0	0	.....	.....	clear.
S. S. Malabar, N. 15° 45′, E. 41° 33′*†	29.80	756.9	.....	.....	.....	se.	.....	.....	1	.....	.....	.....	.....	0	0	.....	.....	
Bg. Medina, Key Francis, Fla.†	30.17	766.3	.....	.....	.....	sse.	.....	.....	1	.....	0	.....	.....	.....	.....	.....	.....	fine.
S. S. Nebo, S. 15° 10′, W. 37° 18′†*	29.95	760.7	.....	.....	.....	ne.	.....	.....	2	.....	1	.....	e.	1 h'r	1 h'r	long	ene.	clear.
S. S. New York, N. 36° 33′ W. 3° 20′*†	30.10	764.5	.....	.....	.....	e.	.....	.....	.....	.....	.....	.....	.....	0	0	sm'h	.....	fair.
Bk. Peppina, Bordeaux, France†	29.90	759.4	63	17.2	67	e.	.....	.....	1	.....	5?	.....	w.	.....	.....	.....	.....	cloudy.
Bg. Potomac, N. 17° 33′, W. 59° 41′*†	30.00	762.0	.....	.....	.....	e.	.....	.....	3	.....	.....	.....	e.	.....	.....	sm'h	.....	clear.
S. Salisbury. S. 25° 06′, W. 32° 00′*	30.22	767.7	75.7	24.3	87	e.	.....	.....	4–5	.....	8	.....	ene.	¼ h'r	¼ h'r	mod.	e.	cloudy.
Schr. S. B. Hubbard, St. John's River, Fla*†	30.01	762.2	70	21.1	.....	n.	.....	.....	1	.....	0	.....	.....	2 h'r	2 h'r	.....	.....	fine.
Bk. Stella, S. 28° 15′, W. 85° 24′*	30.09	764.3	69.8	21.0	91	nne.	.....	.....	1	.....	6	.....	n.	0	0	sm'h	w.	d. clouds.
S. S. Utopia, N. 40° 24′ W. 37° 23′†	30.48	774.2	64	17.8	57	s.	.....	.....	2	.....	9	.....	sw.	0	0	mod.	ne.	cloudy.
Yacht Vega, N. 36° 10′, W. 67° 32′*†	30.10	764.5	68	20.0	.....	sesse.	.....	.....	4	.....	4	.....	ssw.	rain	rain	h'v'y	sse.	
S. Washington, N. 47° 28′, W. 20° 22′†	29.72	754.9	.....	.....	.....	nw.	.....	.....	6	.....	1	.....	nw.	2 h'r	2 h'r	r'gh	wnw.	clear.
Bg. Wauburn, N. 21° 50′ W. 59° 14′*†	30.15	765.8	.....	.....	.....	se.	.....	.....	5	.....	3	.....	se.	.....	.....	sm'h	.....	
S. Wm. Woodbury, N. 37° 10′, W. 61° 55′*†	29.92	760.0	70	21.1	.....	sw.	.....	.....	4	.....	.....	.....	sw.	.....	.....	cross	sw.	cloudy.

International Chart I. April 30, 1882. Isobars and Isotherms.



UNITED STATES OF AMERICA.

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

SUMMARY AND REVIEW

OF

INTERNATIONAL METEOROLOGICAL OBSERVATIONS,

APRIL, 1882.

STATIONS.	Latitude.	Longitude.	Local Time.	Altitude of Barometer above sea.		Result of Simultaneous Observations for April, 1882.																		Average Cloudiness.	Total Precipitation.	
						Mean Barometer.				Mean Temperature.		Mean Rel. Humidity.	Wind.													
						Actual.		Reduced.					Directions.									Total Movement.				
				Feet.	Met'rs	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.		N	NW	W	SW	S	SE	E	NE	C	Miles	Kil.	0–10	Inch.	Mill.
ALGERIAN.	° ′	° ′																								
Nemours	N. 35 06	W. 1 50	0.00 m.	13	4	.....	.....	30.02	762.5	70.2	21.2	79.4	.....	2	14	2	.....	.....	1	11	.....	.....	.....	1	0.73	18.5
Algiers	N. 36 47	E. 3 04	0.20 p.m.	72	22	.....	.....	29.98	761.6	66.7	19.3	62.0	3	2	17	4	.....	.....	.....	4	.....	.....	.....	3	0.96	24.5
La Calle	N. 36 54	E. 8 26	0.42 p.m.	36	11	.....	.....	29.97	761.1	66.6	19.2	74.8	6	10	4	5	.....	1	2	2	.....	.....	.....	4	1.91	48.6
Tunis	N. 36 42	E. 10 13	0.49 p.m.	46	14	.....	.....	29.95	760.7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Saida	N. 34 51	E. 0 10	0.09 p.m.	2844	867	.....	.....	30.09	764.2	68.4	20.2	42.6a	7	14	3	2	.....	1	2	1	.....	.....	.....	2	1.02	25.9
Tebessa	N. 35 24	E. 8 06	0.40 p.m.	2890	881	.....	.....	30.05	763.2	57.4	14.1	63.0	5	5	6	8	2	4	.....	.....	.....	.....	.....	3	3.29	83.6
Gerlville	N. 33 45	E. 1 10	0.13 p.m.	4285	1306	.....	.....	.....	.....	66.4	19.1	22.5	7	11	5	2	3	.....	.....	2	.....	.....	.....	3	0.17	4.3
Laghouat	N. 33 48	E. 2 53	0.20 p.m.	2559	780	.....	.....	30.09	764.3	70.9	21.6	58.3	.....	3	11	7	6	3	.....	.....	.....	.....	.....	1	0	0
Biskra	N. 34 51	E. 5 41	0.31 p.m.	410	125	.....	.....	30.06	763.5	75.9	24.4	27.1	3	10	5	2	3	7	.....	.....	.....	.....	.....	3	0	0
AUSTRALIAN.																										
Melbourne	S. 37 50	E. 144 58	9.47 p.m.	91	28	29.91	759.6	30.00	761.9	57.0	13.9	77	4	1	4	4	4	8	2	3	.....	.....	.....	6	2.32	58.9
AUSTRO-HUNGARIAN.																										
Agram	N. 45 48	E. 15 53	1.12 p.m.	536	163	29.34	745.2	29.89	759.1	59.2	15.1	49.7	1	1	3	7	2	6	2	8	.....	.....	.....	6	1.52	38.5
Cracow	N. 50 04	E. 20 00	1.28 p.m.	722	220	29.13	739.8	29.89	759.2	56.1	13.4	50.1	3	.....	10	5	2	1	7	2	.....	.....	.....	6	1.34	33.9
Eperies	N. 48 58	E. 21 15	1.33 p.m.	820	250	29.00	736.5	29.85	758.1	50.2	10.1	65.0	11	3	.....	.....	9	2	.....	.....	5	.....	.....	6	1.28	32.5
Gratz	N. 47 04	E. 15 28	1.10 p.m.	1171	357	28.64	727.4	29.88	758.9	56.3	13.5	57.0	.....	7	2	3	7	3	8	.....	.....	.....	.....	5	3.80	96.4
Hermannstadt	N. 45 47	E. 24 13	1.45 p.m.	1352	412	28.44	722.4	29.84	757.9	60.8	10.0	47	2	6	2	1	5	11	3	.....	.....	.....	.....	6	2.48	62.9
Kremsmünster	N. 48 03	E. 14 08	1.04 p.m.	1260	384	28.56	725.5	29.88	758.9	52.9	11.6	60.9	.....	5	7	1	.....	.....	.....	14	3	.....	.....	6	2.04	51.7
Lemberg	N. 49 50	E. 24 00	1.44 p.m.	978	298	28.89	733.8	29.87	758.6	55.8	13.2	46.5	3	1	.....	6	5	4	5	6	.....	.....	.....	6	0 93	23.6
Pola	N. 44 52	E. 13 51	1.04 p.m.	105	32	29.78	756.5	29.90	759.4	59.4	15.2	64.4	.....	2	8	3	4	5	6	2	.....	.....	.....	5	2.05	52.1
Szathmar	N. 47 46	E. 22 53	1.39 p.m.	430	131	29.38	746.3	29.84	758.0	62.2	16.8	44	1	5	3	5	7	2	3	4	.....	.....	.....	5	1.80	45.6
Szegedin	N. 46 15	E. 20 10	1.29 p.m.	256	78	29.59	751.6	29.86	758.4	58.5	14.7	53.6	1	7	2	4	7	2	1	2	4	.....	.....	6	1.73	44.0
Trieste	N. 45 39	E. 13 46	1.04 p.m.	85	26	29.81	757.2	29.91	759.8	60.3	15.7	50.2	.....	.....	.....	.....	3	.....	1	2	11	13	.....	6	2.90	75.3
Vienna	N. 48 12	E. 16 22	1.14 p.m.	663	202	29.19	741.3	29.92	759.9	55.6	13.1	51	1	8	5	1	1	6	5	2	1	.....	.....	6	1.49	37.9
BRITISH.																										
Aberdeen	N. 57 10	W. 2 06	0.00 m.	89	27	29.70	754.4	29.80	756.9	44.1	6.7	71.6	.....	4	5	.....	5	5	9	2	.....	.....	.....	7	3.20	81.3
Armagh	N. 54 21	W. 6 39	11.42 a.m.	207	63	29.51	749.5	29.75	755.6	49.6	9.8	67.9a	3	1	2	7	2	3	7	5	.....	.....	.....	6	.....	.....
Bidston	N. 53 24	W. 3 04	11.56 a.m.	197	60	.....	.....	29.73	755.1	50.2	10.1	74.0	.....	2	7	5	.....	2	9	5	.....	.....	.....	6	.....	.....
Bolton	N. 53 35	W. 2 28	11.58 a.m.	500	152	29.24	742.7	29.78	756.4	49.2	9.6	69.2	1	1	3	6	4	3	9	3	.....	.....	.....	7	.....	.....
Bradford *g*	N. 53 48	W. 1 47	0.01 p.m.	366	111	29.30	744.2	29.70	754.4	49.8	9.9	76.0	.....	.....	2	6	.....	7	5	3	.....	.....	.....	4	4.33a	110.0a
Bridgetown	N. 13 04	W. 59 37	8.10 a.m.	28	9	29.97	761.2	30.00	762.0	82.1	27.8	67.3	.....	.....	.....	.....	.....	.....	.....	30	.....	.....	.....	4	.....	.....
Cardington	N. 52 08	W. 0 27	0.06 p.m.	109	33	.....	.....	29.76	755.9	55.0	12.8	66.2	1	4	1	6	5	4	7	2	.....	.....	.....	6	.....	.....
Chatham	N. 51 25	E. 0 33	0.10 p.m.	120	37	29.70	754.4	29.83	757.7	51.8	11.0	74.2	.....	1	3	9	5	.....	2	8	2	.....	.....	7	.....	.....
Falmouth	N. 50 09	W. 5 04	11.48 a.m.	211	64	29.60	751.8	29.80	756.9	52.0	11.1	73.1	1	2	6	2	7	4	8	.....	.....	.....	.....	6	.....	.....
Fort Napier	S. 30 00	E. 31 00	2.12 p.m.	2200	671	27.61	701.3	29.83	757.7	78.8	26.0	50.7	5	.....	.....	.....	.....	8	11	4	2	.....	.....	2	.....	.....
Free Town	N. 8 30	W. 13 14	11.15 a.m.	224	68	29.62	752.3	29.85	758.2	87.1	30.6	65.5	1	7	14	7	.....	.....	.....	.....	1	.....	.....	3	.....	.....
Galway	N. 53 15	W. 9 03	11.32 a.m.	32	10	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Gibraltar	N. 36 09	W. 5 21	11.47 a.m.	50	15	30.02	762.5	30.08	764.0	68.8	20.4	75.1	.....	1	16	9	.....	.....	4	.....	.....	.....	.....	3	.....	.....
Glasgow	N. 55 53	W. 4 17	11.51 a.m.	184	56	29.54	750.3	29.74	755.4	47.4	8.6	65.6	2	2	2	5	3	.....	8	8	.....	.....	.....	7	.....	.....
Greenwich	N. 51 29	0 00	0.08 p.m.	159	48	29.61	752.1	29.78	756.4	53.6	12.0	69.5	3	1	4	4	5	4	4	5	.....	.....	.....	7	.....	.....
Guernsey	N. 49 27	W. 2 41	11.58 a.m.	275	84	29.50	749.3	29.79	756.7	52.3	11.3	82.9	1	4	4	5	3	6	.....	7	.....	.....	.....	6	.....	.....
Kew	N. 51 28	W. 0 19	0.07 p.m.	34	10	29.75	755.6	29.78	756.4	53.0	11.7	63.9	3	3	3	4	5	5	4	3	.....	.....	.....	7	.....	.....
Leicester	N. 52 39	W. 1 08	0.04 p.m.	245	75	29.49	749.0	29.75	755.6	52.2	11.2	67.3	1	4	2	7	2	5	.....	8	1	.....	.....	6	.....	.....
Malta	N. 36 00	E. 14 30	1.06 p.m.	70	21	29.83	757.7	29.90	759.4	64.0	17.8	69.9	4	11	4	1	.....	3	3	4	.....	.....	.....	4	.....	.....
Nassau	N. 25 04	W. 77 22	6.58 a.m.	44	13	30.07	763.8	30.11	764.8	76.9	24.9	77.1a	.....	.....	....	11	4	7	1	7	....	.....	.....	6	.....	.....
Oscott	N. 52 28	W. 1 55	0.00 m.	483	147	29.23	742.4	29.75	755.6	50.9	10.5	68.2	4	2	2	3	5	8	3	3	.....	.....	.....	7	.....	.....
Oxford	N. 51 46	W. 1 17	0.03 p.m.	210	64	29.54	750.3	29.77	756.1	52.3	11.3	66.4	2	2	3	6	4	5	5	3	.....	.....	.....	6	.....	.....
Plymouth	N. 50 22	W. 4 10	11.51 a.m.	69	21	29.68	753.9	29.75	755.6	53.9	12.2	75.0	.....	3	2	7	2	9	2	4	1	.....	.....	6	.....	.....
Sandwick Manse	N. 59 05	W. 3 20	11.54 a.m.	94	29	.....	.....	29.82	757.4	43.7	6.5	76.6	1	4	4	1	2	8	8	1	1	.....	.....	6	.....	.....
Scutari Comet'y	N 41 00	E. 29 03	2.04 p.m.	60	18	29.80	736.9	29.87	758.7	58.2	14.6	57.7	2	1	1	5	4	6	2	3	.....	.....	.....	6	.....	.....
Sheffield	N. 53 23	W. 1 28	0.02 p.m.	260	79	29.49	749.0	29.77	756.1	52.0	11.1	72.6	1	.....	2	8	3	2	2	11	1	.....	.....	7	3.21	81.5
Silloth Rectory	N. 54 52	W. 3 22	11.54 a.m.	28	9	29.71	754.6	29.74	755.4	49.8	9.9	71.5	1	2	4	5	.....	3	12	3	.....	.....	.....	6	2.87	72.9
Stonyhurst	N. 53 51	W. 2 28	11.58 a.m.	361	110	.....	.....	29.76	755.9	49.1	9.5	66.4a	2	1	6	5	1	2	8	5	.....	.....	.....	8	.....	.....
Stratfield Turgiss	N. 51 17	W. 0 53	0.04 p.m.	197	60	.....	.....	.....	.....	54.4	12.4	66.5	1	4	3	7	2	7	3	3	.....	.....	.....	6	.....	.....
Truro	N. 50 16	W. 5 04	11.53 a.m.	43	13	29.72	754.9	29.76	755.9	57.4	14.1	72.1	2	7	1	5	4	6	2	3	.....	.....	.....	6	.....	.....
Valencia	N. 51 55	W. 10 18	11.27 a.m.	23	7	29.69	754.1	29.71	754.6	51.7	10.9	73.4	2	7	1	3	4	7	5	1	.....	.....	.....	7	.....	.....
CANADIAN.																										
Bathurst *d*	N. 47 39	W. 65 43	7.45 a.m.	35	11	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Charlottetown	N. 46 14	W. 63 10	7.55 a.m.	38	12	29.88	758.9	29.93	760.2	28.2	— 2.1	82.0	4	6	5	3	6	1	1	2	2	5314	8552	4	3.04	92.5
Chatham	N. 47 03	W. 65 29	7.45 a.m.	56	17	29.90	759.4	29.96	761.0	27.4	— 2.6	81.7a	1	13	.....	4	3	1	1	3	4	4136	6656	6	1.97	50.0
Cornwall	N. 45 01	W. 74 43	7.09 a.m.	175	53	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Dalhousie	N. 48 04	W. 66 21	7.32 a.m.	150	46	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Father Point	N. 48 31	W. 68 28	7.34 a.m.	20	6	29.94	760.5	29.96	761.0	28.1	— 2.2	90.7	8	4	1	6	2	.....	3	4	2	13814	22231	8	1.42	36.1
Fort Garry	N. 49 51	W. 97 07	5.39 a.m.	754	230	29.27	743.4	30.14	765.5	26.0	— 3.3	88.9	6	1	1	.....	2	7	6	.....	7	5983	9628	4	0.47	11.9
Fredericton	N. 45 57	W. 66 39	7.41 a.m.	59	18	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Granton	N. 43 12	W. 81 21	6.43 a.m.	1015	309	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Halifax	N. 44 39	W. 63 36	7.53 a.m.	122	37	29.82	757.4	29.96	761.0	31.6	— 0.2	79.8	5	6	8	1	3	1	1	4	1	.....	.....	6	4.83	122.7
Hamilton	N. 43 16	W. 79 53	6.49 a.m.	358	109	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Kingston	N. 44 14	W. 76 30	7.02 a.m.	307	94	29.66	753.4	30.01	762.2	34.6	1.4	73.9	11	3	7	2	3	1	.....	3	.....	6354	10226	7	1.23	31.2
Little Glace Bay	N. 46 12	W. 59 58	8.08 a.m.	34	10	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Montreal	N. 45 31	W. 73 33	7.13 a.m.	187	57	29.77	756.1	29.99	761.7	32.0	0.0	71.9	7	2	7	.....	3	.....	4	5	2	.....	.....	6	2.01	51.1
Parry Sound	N. 45 19	W. 80 01	6.48 a.m.	635	194	29.32	744.7	30.04	763.0	32.1	0.1	80.5	6	3	5	1	2	2	4	7	.....	7279	11714	4	1.66	42.2
Peterborough	N. 44 17	W. 78 20	6.54 a.m.	688	210	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Port Dover	N. 42 47	W. 80 13	6.47 a.m.	635	194	29.33	745.0	30.04	763.0	37.2	2.9	88.6	2	3	5	5	1	.....	1	10	3	6735	10839	6	1.39	35.3
Port Stanley	N. 42 40	W. 81 13	6.43 a.m.	592	180	29.37	746.0	30.04	763.0	35.8	2.1	79.9	2	5	8	2	1	.....	7	5	.....	.....	.....	6	1.57	39.9
Quebec	N. 46 48	W. 71 12	7.23 a.m.	293	89	29.66	753.4	30.00	762.0	27.2	— 2.7	83.4a	8	7	2	.....	.....	.....	4	6	3	.....	.....	6	1.83	46.5
Rockliffe	N. 46 10	W. 77 48	6.57 a.m.	418	127	29.55	750.6	30.03	762.7	30.0	— 1.1	75.1	3	10	3	1	.....	3	2	1	7	.....	.....	6	1.83	46.5
Saugeen	N. 44 30	W. 81 21	6.42 a.m.	656	200	29.31	744.5	30.04	763.0	35.5	1.9	78.8	2	4	4	5	2	2	3	7	1	8836	14220	5	2.70	68.6
St. Andrews	N. 43 04	W. 81 06	6.34 a.m.	47	14	29.90	759.4	29.95	760.7	31.4	— 0.3	80.2	6	9	3	2	1	4	.....	3	2	.....	.....	5	2.79	70.9
St. John, N.B	N. 45 17	W. 66 03	7.44 a.m.	150	46	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
St. Pierre	N. 46 47	W. 56 08	8.24 a.m.	?	?	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Stratford	N. 43 23	W. 81 00	6.44 a.m.	1182	360	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

STATIONS.	Latitude.	Longitude.	Local Time.	Altitude of Barometer above sea.		Result of Simultaneous Observations for April, 1882.																				Average Cloudiness.	Total Precipitation.	
						Mean Barometer.				Mean Temperature.		Mean Rel. Humidity.	Wind.															
						Actual.		Reduced.					Directions.									Total Movement.						
				Feet.	Met'rs	Inch.	Mill.	Inch.	Mill.	Fah.	Cent		N	NW	W	SW	S	SE	E	NE	C	Miles	Kil.	0–10	Inch.	Mill.
Canadian—C't'd.	° ′	° ′																										
Sydney	N. 46 08	W. 60 10	8.07 a.m.	37	11	29.86	758.4	29.92	760.0	28.5	— 1.9	75.4	3	3	7	4	3	1	3	.....	6	7279	11714	7	3.18	80.8
Toronto	N. 43 39	W. 79 23	6.50 a.m.	350	107	29.65	753.1	30.05	763.3	37.1	2.8	71.9	6	6	4	2	1	1	3	6	1	9898	15929	6	1.03	26.2
Windsor	N. 44 59	W. 63 58	7.53 a.m.	87	26	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Woodstock	N. 43 08	W. 80 47	6.48 a.m.	980	299	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Yarmouth	N. 43 50	W. 66 02	7.44 a.m.	61	19	29.88	758.9	29.95	760.7	33.7	0.9	85.9	5	6	2	5	2	4	.....	5	1	6591	10607	5	3.59	91.2
Sub-Series.																												
St. Johns, N. F.	N. 47 34	W. 52 42	8.37 a.m.	230	70	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cape Colony																												
Cape St. Francis	S. 34 10	E. 24 50	1.47 p.m.	25	7	30.10	764.5	30.13	765.3	68.7	20.4	77.7	.....	1	13	6	3	2	4	1	.....	.....	.....	5	1.10	27.9
Cape Town	S. 34 02	E. 18 29	1.22 p.m.	27	8	29.99	761.7	30.03	762.7	70.1	21.2	70.2	1d	9	4	.....	7	6	.....	.....	2	.....	.....	5	2.00	50.8
Chinese.																												
Sub Series.																												
Hankow *h*	N. 30 34	E. 114 20	7.45 p.m.	260	79	29.91	759.7	30.18	766.6	59.3	15.2	83	4	1	1	2	2	5	5	1	1	.....	.....	5	6.53	165.9
Zi-Ka-Wei	N. 31 12	E. 121 26	8.14 p.m.	23	7	30.00	762.0	30.02	762.6	53.8	12.1	83	3	1	3	.....	2	5	12	3	1	.....	.....	7	3.37	85.6
Danish.																												
Copenhagen	N. 55 41	E. 12 36	0.58 p.m.	43	13	29.85	758.2	29.90	759.4	48.0	8.9	65	1	3	2	3	7	8	4	1	1	.....	.....	5	.....	.....
Fanöe	N. 55 27	E. 8 24	0.42 p.m.	20	6	29.83	757.6	29.85	758.1	48.4	9.1	77	.....	1	5	9	2	3	6	2	2	.....	.....	6	.....	.....
Godthaab	N. 64 11	W. 51 46	8.41 a.m.	36	11	29.88	759.0	29.93	760.1	24.1	—4.4	83	8	5	1	.....	2	3	.....	8	4	.....	.....	5	.....	.....
Stykkisholm	N. 65 05	W. 22 46	10.37 a.m.	36	11	29.96	761.0	30.00	762.1	29.1	—1.6	91	.....	.....	.....	.....	3	4	8	12	3	.....	.....	5	.....	.....
Thorshavn	N. 62 02	W. 6 44	11.41 a.m.	29	9	29.84	757.8	29.87	758.7	41.7	5.4	76	6	.....	2	3	.....	6	2	10	1	.....	.....	6	.....	.....
Vestervig	N. 56 47	E. 8 20	0.41 p.m.	82	25	29.73	755.1	29.82	757.4	46.0	7.8	75	.....	3	3	4	5	1	6	5	3	.....	.....	6	.....	.....
French.																												
Agen	N. 44 12	E. 0 38	0.11 p.m.	604	184	29.28	743.8	29.93	760.3	58.6	14.8	74.1	3	2	3	4	5	1	.....	.....	12	.....	.....	.....	3.37	85.7
Alençon	N. 48 26	E. 0 05	0.09 p.m.	476	145	29.32	744.7	29.87	758.6	54.9	12.7	77.7	5	.....	2	5	10	2	1	5	.....	.....	.....	.....	1.91	48.6
Arras	N. 50 18	E. 2 46	0.19 p.m.	239	73	29.56	750.9	29.82	757.4	55.0	12.8	60.9	4	3	5	4	2	6	2	3	1	.....	.....	.....	1.95	49.5
Avignon	N. 43 57	E. 4 48	0.27 p.m.	65	20	29.82	757.5	29.90	759.5	64.4	18.0	51.4	11	5	1	6	1	4	1	1	.....	.....	.....	6	2.98	75.8
Bar-sur-Seine	N. 48 07	E. 4 22	0.25 p.m.	518	158	29.32	744.8	29.88	758.9	57.2	14.0	53	.....	.....	.....	3	12	12	3	.....	.....	.....	.....	6	1.99	50.6
Beauvais	N. 49 26	E. 2 05	0.16 p.m.	246	75	29.58	751.4	29.85	758.1	56.3	13.5	54.4	3	1	3	3	4	8	8	.....	.....	.....	.....	6	2.71	68.9
Besançon	N. 47 14	E. 6 01	0.32 p.m.	846	258	26.95	735.3	29.84	757.8	58.8	14.9	57.3	2	1	1	6	6	.....	1	13	.....	.....	.....	4	2.57	65.3
Bordeaux	N. 44 50	E. 0 32	0.06 p.m.	243	74	29.63	752.6	29.89	759.2	59.7	15.4	60.8	2	5	9	4	3	4	3	.....	.....	.....	.....	8	3.71	94.3
Bourges	N. 47 10	E. 2 26	0.17 p.m.	510	156	29.33	745.0	29.91	759.7	58.5	14.7	50.5	3	1	5	5	5	5	2	3	1	.....	.....	6	1.28	32.5
Brest	N. 48 24	W. 4 30	11.50 a.m.	210	64	29.60	751.7	29.84	757.9	56.7	13.7	73.2	3	1	8	8	3	.....	1	3	3	.....	.....	.....	2.87	73.0
Caen	N. 49 11	W. 0 21	0.07 p.m.	69	21	29.74	755.4	29.82	757.3	57.6	14.2	62.9	1	4	4	6	4	6	1	4	.....	.....	.....	6	1.84	46.7
Châlons-sur-Marne	N. 48 57	E. 4 21	0.25 p.m.	294	90	29.52	749.7	29.83	757.6	59.7	15.4	54.4	2	.....	2	5	8	3	1	2	7	.....	.....	4	2.67	67.9
Charleville *t*	N. 49 46	E. 4 49	0.27 p.m.	476	145	29.32	744.8	29.84	757.9	56.7	13.7	58.2	.....	1	3	3	5	6	2	1	.....	.....	.....	6	1.85	47.1
Clermont-Fd	N. 45 46	E. 3 05	0.20 p.m.	1273	388	28.53	724.6	29.86	758.5	59.4	15.2	46.5	5	1	4	3	4	6	2	5	.....	.....	.....	6	2.33	59.1
Cluny	N. 46 26	E. 4 39	0.27 p.m.	787	240	29.05	737.8	29.89	759.2	57.6	14.2	54.6	6	3	2	2	8	5	2	2	.....	.....	.....	.....	1.12	28.4
Commercy	N. 48 46	E. 5 35	0.30 p.m.	797	243	29.02	737.2	29.89	759.2	56 7	13.7	48.2	2	1	2	6	2	4	5	8	.....	.....	.....	4	3.10	78.7
Gap	N. 44 33	E. 6 05	0.32 p.m.	2424	739	27.35	694.6	29.84	757.9	58.5	14.7	36.6	10	1	4	2	4	.....	1	.....	8	.....	.....	.....	1.19	30.3
Gréasque	N. 43 25	E. 5 37	0.31 p.m.	1056	322	28.75	730.3	29.87	758.8	61.7	16.5	41.6	1	.....	.....	.....	2	12	7	8	.....	.....	.....	5	1.44	36.5
Grenoble	N. 45 12	E. 5 43	0.31 p.m.	715	218	29.11	739.5	29.87	758.8	59.5	15.3	55.9	6	8	.....	2	1	6	5	2	.....	.....	.....	.....	2.44	62.1
Guéret	N. 46 10	E. 1 52	0.16 p.m.	1486	453	28.32	719.2	29.89	759.1	55.0	12.8	59.5	1	.....	3	13	3	6	1	3	.....	.....	.....	.....	4.01	101.9
Lamballe *a*	N. 48 28	W. 2 31	11.58 a.m.	252	77	29.57	751.1	29.84	758.0	55.9	13.3	67.1	4	2	5	2	5	5	.....	6	.....	.....	.....	6	2.08	52.7
Lescar	N. 43 20	W. 0 26	0.06 p.m.	525	160	29.35	745.6	29.91	759.7	62.2	16.8	61.1	.....	1	12	8	1	.....	.....	6	2	.....	.....	5	4.44	112.9
Lorient	N. 47 45	W. 3 21	11.55 a.m.	86	26	29.76	755.8	29.86	758.4	57.7	14.3	78.1	1	2	4	6	6	4	1	5	1	.....	.....	6	4.14	105.1
Lyon	N. 45 41	E. 2 30	0.25 p.m.	981	299	28.85	732.9	29.90	759.5	57.6	14.2	48.9	6	5	.....	1	7	6	4	1	.....	.....	.....	.....	3.02	76.8
Mans	N. 48 01	E. 0 12	0.09 p.m.	285	87	29.56	750.7	29.86	758.5	55.6	13.1	70.2	3	6	2	6	5	3	1	4	.....	.....	.....	5	2.83	71.9
Marseille	N. 43 18	E. 5 23	0.29 p.m.	246	75	29.63	752.5	29.89	759.3	62.6	17.0	49.4	.....	5	9	5	1	6	4	.....	.....	.....	.....	.....	1.05	26.6
Mont-Louis	N. 42 30	E. 2 07	0.16 p.m.	5203	1586	24.71	627.6	29.55	750.6	45.9	7.7	54.8	.....	2	6	14	.....	1	2	5	.....	.....	.....	5	.....	.....
Montpellier	N. 43 37	E. 3 53	0.24 p.m.	118	36	29.76	755.9	29.89	759.2	63.7	17.6	59.9	6	.....	.....	.....	.....	5	12	7	.....	.....	.....	3	1.86	47.2
Nancy	N. 48 42	E. 6 11	0.33 p.m.	725	221	29.07	738.4	29.85	758.1	56.3	13.5	57.1	4	4	3	4	4	4	.....	7	.....	.....	.....	4	2.13	54.0
Nantes	N. 47 13	W. 1 33	0.02 p.m.	134	41	29.72	754.9	29.88	759.0	58.8	14.9	61.5	5	3	2	9	4	2	2	3	.....	.....	.....	7	2.16	54.9
Perpignan	N. 42 42	E. 2 53	0.19 p.m.	105	32	29.80	757.0	29.91	759.7	61.5	16.4	53.1	5	4	.....	1	7	6	3	4	.....	.....	.....	7	1.85	47.0
Pic du Midi (Sum-	N. 42 56	W. 0 08	0.08 p.m.	9380	2859	21.08	535.5	.....	.....	26.6	—3.6	.....	1	5	3	12	2	1	1	4	1	.....	.....	8	6.26	158.9
Privas [mit.]	N. 44 45	E. 4 36	0.26 p.m.	997	304	28.84	732.4	29.89	759.2	58.8	14.9	57.0	5	.....	.....	.....	14	5	.....	.....	6	.....	.....	4	3.60	91.3
Puy de Dome	N. 45 46	E. 2 58	0.20 p.m.	4813	1467	24.99	634.7	.....	.....	37.4	3.0	82.7	3	4	4	8	4	4	2	1	.....	.....	.....	7	4.15	105.4
Rochefort	N. 45 56	W. 0 58	0.04 p.m.	29	9	29.87	758.6	29.90	759.4	60.8	16.0	91.9	1	2	8	8	3	4	.....	3	1	.....	.....	7	1.46	37.1
Roche-sur-Yon	N. 46 40	W. 1 26	0.02 p.m.	198	60	29.64	752.9	29.85	758.2	58.1	14.5	65.7	3	5	4	7	3	1	1	6	.....	.....	.....	6	3.04	77.3
Rodez	N. 44 21	E. 2 34	0.18 p.m.	2050	625	27.79	705.9	29.94	760.4	52.9	11.6	68.9	1	12	2	1	1	2	8	2	1	.....	.....	6	4.36	110.7
Rouen	N. 49 26	E. 1 05	0.12 p.m.	39	12	29.78	756.5	29.83	757.7	57.0	13.9	61.4	1	1	3	7	6	3	3	6	.....	.....	.....	5	1.66	42.1
Saint Maur	N. 48 48	E. 2 21	0.17 p.m.	162	49	29.69	754.2	29.86	758.4	56.7	13.7	55.1	3	1	5	4	4	6	1	6	.....	.....	.....	6	1.85	47.1
Toulouse	N. 43 37	E. 1 27	0.14 p.m.	636	194	29.24	742.6	29.96	760.9	59.5	15.3	68.7	.....	8	5	4	1	11	1	.....	.....	.....	.....	6	4.08	103.7
Versailles	N. 48 48	E. 2 07	0.16 p.m.	445	.136	29.37	745.9	29.86	758.4	56.1	13.4	54.0	2	1	6	8	4	2	5	2	.....	.....	.....	4	2.35	59.8
Sub-Series.																												
Paris, Montsouris	N. 48 50	E. 2 20	0.17 p.m.	256	78	29.58	751.2	29.87	758.6	57.0	13.9	53.9	1	.....	5	6	3	5	3	7	.....	.....	.....	6	2.10	53.4
German.																												
Bamberg	N. 49 54	E. 10 54	0.51 p.m.	787	240	29.05	737.9	29.90	759.5	54.3	12.4	47.8	2	4	5	8	2	3	1	5	.. ..	.....	.....	5	1.40	35.5
Berlin	N. 52 30	E. 13 23	1.02 p.m.	164	50	29.72	754.8	29.89	759.3	55.2	12.9	46.3	5	2	3	6	.....	7	3	4	.....	.....	.....	6	1.00	25.5
Breslau	N. 51 07	E. 17 02	1.17 p.m.	482	147	29.41	747.0	29.94	760.4	53.2	11.8	54.4	2	5	3	5	4	4	3	4	.....	.....	.....	6	0.58	14.6
Carlsruhe	N. 49 01	E. 8 25	0.42 p.m.	404	123	29.47	748.4	29.90	759.5	55.9	13.3	48.8	2	.....	.....	11	1	2	4	10	.....	.....	.....	6	2.06	52.3
Cassel	N. 51 19	E. 9 28	0.46 p.m.	669	204	29.14	740.2	29.85	758.3	56.5	13.6	45.2	4	4	2	2	12	.....	2	4	.....	.....	.....	5	0.67	17.0
Frankfort on M	N. 50 08	E. 8 41	0.43 p.m.	338	103	29.50	749.2	29.86	758.4	56.8	13.8	46.2	5	2	1	10	4	2	2	4	.....	.....	.....	5	2.20	55.9
Friedrichshafen	N. 47 39	E. 9 29	0.46 p.m.	1355	413	28.47	723.1	29.91	759.0	52.5	11.4	68 4	...	1	5	13	6	.....	1	4	.....	.....	.....	5	3.34	84.8
Hamburg	N. 53 33	E. 9 58	0.48 p.m.	85	26	29.80	757.0	29.90	759.4	51.3	10.7	63.6	1	2	2	9	2	4	7	3	.....	.....	.....	6	0.84	21.2
Kiel	N. 54 19	E. 10 04	0.48 p.m.	13	4	29.86	758.4	29.87	758.8	49.1	9.5	64.3	2	.....	4	8	3	3	4	6	.....	.....	.....	6	1.48	37.6
Leipsic	N. 51 20	E. 12 24	0.58 p.m.	390	119	29.49	749.1	29.91	759.7	54.0	12.2	48.1	1	3	1	12	1	1	4	7	.....	.....	.....	6	1.71	43.4
Magdeburg	N. 52 09	E. 11 37	0.54 p.m.	177	54	29.71	754.6	29.90	759.4	54.9	12.7	49.8	2	4	5	8	1	2	5	3	.....	.....	.....	6	1.28	32.5
Memel	N. 55 43	E. 21 07	1.32 p.m.	39	12	29.95	760.6	29.99	761.8	48.6	9.2	61.5	1	5	5	4	5	2	2	6	.....	.....	.....	5	.....	.....
Munich	N. 48 09	E. 11 34	0.54 p.m.	1732	528	28.08	713.2	29.94	760.4	52.3	11.3	50.2	3	12	.....	.....	.....	3	1	3	8	.....	.....	6	1.90	48.3
Neufahrwasser	N. 54 24	E. 18 40	1.25 p.m.	16	5	29.94	760.4	29.95	760.8	50.7	10.4	61.0	6	3	1	4	5	1	2	8	.....	.....	.....	6	1.00	25.3
Neustadt	N. 49 21	E. 8 08	0.41 p.m.	479	146	29.36	745.8	29.89	759.1	55.6	13.1	54.5	5	.....	5	1	8	.....	2	7	2	.....	.....	6	2.17	55.1
Stuttgart	N. 48 47	E. 9 11	0.45 p.m.	833	254	28.94	735.1	29.83	757.6	55.9	13.3	50.3	10	.....	8	4	2	2	3	1	.....	.....	.....	5	2.55	64.8
Wustrow	N. 54 21	E. 12 24	0.58 p.m.	23	7	29.90	759.4	29.93	760.1	48.9	9.4	72.1	3	.....	2	8	2	5	3	6	1	.....	.....	6	1.15	29.3
Greek.																												
Athens	N. 37 58	E. 23 44	1.43 p.m.	360	110	29.52	749.9	29.92	759.9	63.1	17.3	.....	4	1	3	9	2	.....	.....	11	.....	.....	.....	6	1.37	34.9
Italian.																												
Udine	N. 46 04	E. 13 14	1.01 p.m.	381	116	29.51	749.5	29.91	759.8	59.7	15.4	57	1	.....	.....	11	2	1	6	6	3	.....	.....	6	7.98	202.7
Milan	N. 45 28	E. 9 11	0.45 p.m.	482	147	29.38	740.3	29.87	758.6	60.3	15.7	48	5	3	1	5	1	10	3	2	.....	.....	.....	3	3.50	88.8
Padua	N. 45 24	E. 11 53	0.56 p.m.	102	31	29.79	756.7	29.90	759.5	59.4	15.2	51	3	1	2	2	4	7	6	5	.....	.....	.....	5	2.80	71.2
Moncalieri	N. 45 00	E. 7 42	0.39 p.m.	853	260	28.98	736.0	29.87	758.8	58.6	14.8	49	3	6	1	.....	5	5	8	2	.....	.....	.....	5	2.26	57.4
Genoa	N. 44 25	E. 8 55	0.44 p.m.	157	48	29.70	754.3	29.89	759.1	60.6	15.9	53	1	5	2	13	4	5	.....	.....	.....	.....	.....	4	2.29	58.1
Mondovi	N. 44 22	E. 7 48	0.39 p.m.	1824	556	27.97	710.3	29.89	759.3	54.9	12.7	52	4	7	12	.....	2	1	1	3	.....	.....	.....	3	2.37	60.3
Pesaro	N. 43 55	E. 12 53	1.00 p.m.	46	14	29.85	758.2	29.85	759.4	57.6	14.2	63	11	.....	2	3	.....	3	9	2	.....	.....	.....	5	1.07	27.1
Florence	N. 43 46	E. 11 14	0.53 p.m.	240	73	29.63	752.7	29.88	759.1	63.0	17.2	43	1	2	5	5	5	.....	1	11	.....	.....	.....	5	3.23	82.0
Leghorn	N. 43 32	E. 10 18	0.49 p.m.	79	24	29.77	756.1	29.89	758.2	61.9	16.6	55	2	4	9	3	7	1	2	2	.....	.....	.....	5	0.96	24.4
Rome	N. 41 54	E. 12 29	0.58 p.m.	164	50	29.71	754.6	29.90	759.0	64.6	18.1	44	6	5	5	4	9	.....	.....	1	.....	.....	.....	6	2.28	58.0
Lecce	N. 40 21	E. 18 12	1.21 p.m.	236	72	29.64	752.6	29.89	759.2	61.9	16.6	58	10	5	4	3	2	1	1	4	.....	.....	.....	5	1.98	50.3
Cosenza	N. 39 13	E. 16 15	1.13 p.m.	840	256	29.02	737.0	29.90	759.5	60.8	16.0	74	2	7	8	5	3	2	1	2	.....	.....	.....	7	3.93	99.8
Cagliari	N. 39 13	E. 9 10	0.45 p.m.	180	55	29.70	754.3	29.89	759.2	63.7	17.6	55	.....	12	.....	1	3	11	2	.....	1	.....	.....	5	3.14	79.8
Palermo	N. 38 07	E. 13 22	1.02 p.m.	236	72	29.68	753.9	29.93	760.2	63.0	17.2	54	2	3	5	4	.....	1	1	14	.....	.....	.....	6	2.63	66.7
Syracuse	N. 37 03	E. 15 18	1.09 p.m.	43	13	29.84	757.9	29.88	759.0	63.0	17.2	66	1	3	7	1	3	5	7	3	.....	.....	.....	7	2.32	59.0
Sub-Series.																												
Naples	N. 40 52	E. 14 18	1.05 p.m.	489	149	29.37	746.0	29.89	759.1	61.9	16.6	61.5	.....	2	3	15	1	2	4	3	.....	.....	.....	7	2.10	53.3
Stelvio	N. 46 32	E. 10 26	0.50 p.m.	8343	2543	22.00	558.8	.....	.....	30.8	—0.7	66.6	.....	.....	2	11	1	3	3	10	.....	.....	.....	1	2.34	59.4
Valdobbia	N. 45 47	E. 7 54	0.40 p.m.	8360	2548	22.03	559.6	.....	.....	33.4	0.8	62.6	7	.....	.....	.....	.....	1	19	3	.....	.....	.....	7	5.12	130.0

STATIONS.	Latitude.	Longitude.	Local Time.	Altitude of Barometer above sea.		Result of Simultaneous Observations for April, 1882.																		Average Cloudiness.	Total Precipitation.	
						Mean Barometer.				Mean Temperature.		Mean Rel. Humidity.	Wind.													
						Actual.		Reduced.					Directions.									Total Movement.				
				Feet.	Met'rs	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.		N	NW	W	SW	S	SE	E	NE	C	Miles	Kil.	0–10	Inch.	Mill.
INDIAN.	° ′	° ′																								
Kurachee	N. 24 47	E. 67 04	4.36 p.m.	49	15	29.77	756.0	29.82	757.3	84.4	29.1	63.	.....	1	14	15	.....	.....	.....	.....	.....	.....	.....	3	0	0
Deesa	N. 24 16	E. 72 14	4.57 p.m.	465	142	29.25	742.9	29.70	754.5	98.9	37.2	22.	1	5	12	11	1	.....	.....	.....	.....	.....	.....	2	0	0
Bombay	N 18 54	E. 72 49	5.00 p.m.	37	11	29.74	755 3	29.78	756.3	85.5	29.7	67.	.....	20	9	1	.....	.....	.....	.....	.....	.....	.....	1	0.08	2.0
Poona	N. 18 28	E. 74 10	5.05 p.m.	1849	564	27.89	708.5	29.69	754 0	95.0	35.0	18.	2	8	16	3	.....	1	.....	.....	.....	.....	.....	3	0.75	19.0
Belgaum	N. 15 52	E. 74 42	5.07 p.m.	2550	777	27.24	691.9	29.73	755.2	84.0	28.9	55.	.....	1	10	16	2	1	.....	.....	.....	.....	.....	3	2.32	58.9
Lahore	N. 31 34	E. 74 20	5.05 p.m.	732	223	28.95	735.3	29.68	753.8	90.5	32.7	25.	6	5	7	.....	.....	.....	3	3	6	.....	.....	3	0.99	25.2
Roorkee	N. 29 52	E. 77 56	5.20 p.m.	887	270	28.78	731.1	29.66	753.3	92.0	33.3	18.	.....	13	1	4	1	2	1	2	6	.....	.....	3	0.15	3.8
Agra	N. 27 10	E. 78 05	5.20 p.m.	555	169	29.12	739.7	29.66	753.5	98.5	36.9	14.	6	4	18	.....	2	.....	.....	.....	.....	.....	.....	1	0	0
Nagpur	N. 21 09	E. 79 11	5.24 p.m.	1025	312	28.64	727.4	29.64	752.8	100.2	37.9	17.	3	8	5	.....	3	2	2	1	6	.....	.....	3	0.11	2.8
Jubulpore	N. 23 09	E. 79 59	5.28 p.m.	1351	412	28.36	720.5	29.67	753.7	96.2	35.7	15.	8	4	8	1	.....	.....	.....	2	7	.....	.....	2	0.98	24.9
Lucknow	N. 26 50	E. 81 00	5.32 p.m.	369	112	29.31	744.5	29.67	753.7	98.0	36.7	22.	.....	9	5	3	.....	.....	3	2	8	.....	.....	1	0.16	4.1
Allahabad	N. 25 26	E. 81 52	5.35 p.m.	307	94	29.35	745.5	29.65	753.1	97.0	36.1	19.	2	12	2	1	3	.....	.....	3	7	.....	.....	2	0.02	0.5
Patna	N. 25 37	E. 85 08	5.49 p.m.	183	56	29.51	749.6	29.69	754.2	93.7	34.3	25.	2	10	7	.....	.....	.....	4	7	.....	.....	.....	2	0.03	0.8
Hazaribagh	N. 24 00	E. 85 24	5.50 p.m.	2007	612	27.70	703.7	29.66	753.3	91.0	32.8	21.	7	13	4	2	1	1	1	1	.....	.....	.....	4	1.27	32.3
Cuttack	N. 20 29	E. 85 54	5.52 p.m.	80	24	29.64	752.7	29.72	754.8	88.3	31.3	53.	1	1	2	8	14	3	.....	.....	1	.....	.....	4	1.26	32.0
Calcutta	N. 22 33	E. 88 21	6.01 p.m.	21	7	29.69	754.1	29.71	754.6	87.4	30.8	53.	1	5	.....	6	13	2	1	1	1	.....	.....	4	0.25	6.4
Dhubri	N. 26 07	E. 89 50	6.08 p.m.	118	36	29.59	751.5	29.71	754.5	83.0	28.3	61.	.....	1	.....	1	1	.....	6	8	13	.....	.....	3	2.50	63.5
Chittagong	N. 22 21	E. 91 50	6.15 p.m.	87	26	29.69	754.1	29.78	756.3	82.1	27.8	75.	1	.....	8	13	4	1	.....	2	1	.....	.....	3	0.22	5.6
Sibsagar	N. 26 59	E. 94 40	6.27 p.m.	333	112	29.44	747.8	29.78	756.4	76.8	24.9	80.	.....	.....	.....	5	.....	1	2	22	.....	.....	.....	6	8.98	228.1
Jeypore	N. 26 55	E. 75 50	5.05 p.m.	1431	436	28.28	718.2	29.67	753.7	95.7	35.4	13.	4	15	7	4	.....	.....	.....	.....	.....	.....	.....	2	0	0
Zanzibar	S. 6 10	E. 39 11	2.45 p.m.	23	7	29.87	758.7	.....	.....	83.9	28.8	73.	.....	1	1	3	15	7	3	.....	.....	.....	.....	7	11.09	281.7
Bellary	N. 15 09	E. 76 57	5.16 p.m.	1455	444	28.25	717.5	.....	.....	98.1	36.7	19.	.....	3	2	2	1	16	5	1	.....	.....	.....	6	0.01	0.3
Trichinopoly	N. 10 50	E. 78 44	5.23 p.m.	275	84	29.50	749.3	.....	.....	95.2	35.1	39.	.....	2	1	2	3	9	10	2	1	.....	.....	5	0	0
JAPANESE.																										
Aomori	N. 40 51	E.140 45	9.31 p.m.	32	10	29.91	759.8	29.95	760.7	45.4	7.4	80.8	10	1	6	2	7	.....	2	1	1	7274	11706	6	1.62	41.2
Hakodate	N. 41 47	E.140 44	9.31 p.m.	10	3	29.93	760.1	29.94	760.4	43.4	6.3	83.	5	.....	8	1	.....	1	9	2	4	8414	13541	6	4.45	112.9
Hiroshima †	N. 34 20	E.132 27	8.58 p.m.	14	4	29.95	760.8	29.97	761.1	54.9	12.7	79.5	15	1	4	2	2	.....	.....	6	.....	3900	6276	5	9.11	231.3
Kanazawa	N. 36 33	E.136 40	9.14 p.m	95	29	29.90	759.5	30.01	762.1	50.7	10.4	84.0	3	.....	5	2	2	9	9	.....	.....	5198	8365	6	5.39	136.9
Kioto	N. 35 01	E.135 46	9.11 p.m.	162	49	29.83	757.6	30.00	762.0	53.1	11.7	81.3	9	7	1	2	5	1	4	.....	1	2794	4496	5	8.19	208.1
Kochi	N. 33 33	E.133 34	9.02 p.m.	20	6	29.99	761.6	30.01	762.2	60.1	15.6	79.0	2	8	2	.....	3	1	12	2	.....	6441	10366	6	15.13	384.4
Nagasaki	N. 32 44	E.129 52	8.47 p.m.	189	58	29.81	757.3	30.02	762.4	56.7	13.7	81.9	10	.....	2	9	4	1	.....	2	2	4072	6553	6	20.12	511.0
Nemuro	N. 43 21	E.145 35	9.50 p.m.	58	18	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Niigata	N. 37 55	E.139 03	9.24 p.m.	32	10	29.95	760.7	29.99	761.6	50.5	10.3	82.5	8	1	8	3	1	3	1	4	.....	5955	9583	6	3.46	87.9
Nobiru	N. 38 23	E.141 12	9.32 p.m.	15	5	29.96	760.9	29.97	761.3	48.9	9.4	85.2	10	2	3	2	6	1	5	1	.....	9388	15107	5	4.08	103.6
Supporo	N. 43 04	E.141 23	9.33 p.m.	61	19	.....	.....	.....	.....	41.0	5.0	84.	.....	2	1	.....	7	5	1	.....	14	5710	9189	6	4.72	120.0
Tokei	N. 35 40	E.139 45	9.27 p.m.	63	19	29.91	759.7	29.98	761.4	55.0	12.8	91.4	6	1	.....	.....	13	1	7	.....	2	4934	7940	6	3.86	98.0
Wakayama	N. 34 14	E.135 09	9.09 p.m.	48	15	29.94	760.5	29.99	761.8	57.5	14.2	74.9	1	4	.....	.....	7	.....	11	6	1	3649	5872	5	4.79	121.8
MAURITIUS.																										
Mauritius	S. 20 06	E. 57 33	3.58 p.m.	181	55	29.78	756.4	29.97	761.2	79.2	26.2	70.1	.....	.....	.....	.....	.....	5	24	1	.....	.....	.....	5	1.46	37.1
MEXICAN.																										
Guanajuato	N. 21 01	W.100 48	5.24 a.m.	6762	2061	23.69	601.7	29.91	759.7	62.2	16.8	61.	1	.....	3	8	1	9	1	2	4	.....	.....	2	inap.	inap.
Leon	N. 21 07	W.101 35	5.22 a.m.	5902	1799	24.39	619.4	30.06	763.4	59.5	15.3	70.	10	11	1	1	.....	.....	.....	5	1	.....	.....	5	0.08	2.0
Mazatlan	N. 23 11	W.106 17	5.03 a.m.	249	76	29.69	754.1	29.95	760.7	65.3	18.5	78.	2	10	3	.....	.....	.....	8	4	2	.....	.....	3	inap.	inap.
Mexico	N. 19 26	W. 99 00	5.32 a.m.	7490	2283	23.10	580.7	30.17	766.3	54.7	12.6	66.	.....	1	.....	.....	.....	.....	.....	.....	29	.....	.....	3	0.91	23.2
Morelia	N. 19 42	W.101 06	5.22 a.m.	6247	1940	24.23	615.4	30.35	770.8	59.7	15.4	76.	.....	.....	.....	.....	.....	6	23	1	.....	.....	.....	2	inap.	inap.
Pabellon	N. 22 04	W.102 04	5.20 a.m.	6312	1924	23.94	608.2	29.95	760.8	59.1	15.1	58.	1	1	7	5	1	.....	.....	1	13	.....	.....	4	inap.	inap.
Puebla	N. 19 02	W. 98 03	5.36 a.m.	7113	2168	23.40	594.2	30.13	765.1	54.2	12.3	79.	.....	2	.....	.....	.....	.....	1	5	22	.....	.....	1	0.40?	5.1?
San Luis Potosi	N. 22 10	W.100 51	5.25 a.m.	6211	1893	24.18	614.2	30.13	765.2	62.4	16.9	53.	1	1	5	4	4	6	9	.....	.....	.....	.....	5	0	0
Zacatecas	N. 22 44	W.102 26	5.18 a.m.	8100	2469	22.53	572.3	30.19	766.8	54.9	12.7	59.	.....	.....	6	7	5	.....	.....	1	11	.....	.....	3	0	0
NETHERLANDS.																										
Flushing	N. 51 24	E. 3 35	0.22 p.m.	0	0	29.84	758.0	29.84	758.0	53.6	12.0	.....	1	.....	7	4	5	4	6	3	.....	.....	.....	.....	2.07	52.6
Groningen	N. 53 12	E. 6 34	0.34 p.m.	?	?	29.79	756.7	29.85	758.1	51.6	10.9	.....	1	4	1	7	9	.....	6	2	.....	.....	.....	.....	2.31	58.6
Helder	N. 52 58	E. 4 45	0.27 p.m.	0	0	29.82	757.4	29.82	757.4	48.9	9.4	.....	.....	2	3	4	8	2	6	5	.....	.....	.....	.....	1.86	47.3
Hellevoetsluis	N. 51 49	E. 4 08	0.25 p.m.	0	0	29.83	757.7	29.83	757.7	53.6	12.0	65.6	.....	.....	.....	2	10	4	4	6	4	.....	.....	.....	2.47	62.7
Utrecht	N. 52 05	E. 5 07	0.29 p.m.	43	13	29.82	757.3	29.86	758.5	54.9	12.7	58.0	.....	.....	.....	2	6	7	5	4	6	.....	.....	5	2.06	52.2
NORWEGIAN.																										
Bergen	N. 60 24	E. 5 20	0.29 p.m.	56	17	29.74	755.4	29.80	757.0	46.2	7.9	58.	.....	13	1	2.	7	4	2	1	.....	.....	.....	6	3.32	84.2
Brono	N. 65 28	E. 12 14	0.57 p.m.	34	10	29.84	757.9	29.88	758.9	39.9	4.4	62.	3	2	3	4	1	3	.....	9	5	.....	.....	5	1.47	37.3
Christiania	N. 59 55	E. 10 45	0.51 p.m.	134	41	29.70	754.4	29.85	758.2	45.5	7.5	63.	5	.....	2	4	6	4	6	1	2	.....	.....	6	2.30	58.3
Gjæsvær	N. 71 07	E. 25 22	1.49 p.m.	23	7	29.77	756.1	29.79	756.7	33.1	0.6	.....	1	6	7	5	2	.....	2	3	4	.....	.....	9	.....	.....
Lodingen	N. 68 24	E. 16 01	1.12 p.m.	43	13	29.83	757.6	29.87	758.8	34.9	1.6	72.	1	1	4	6	3	.....	2	7	6	.....	.....	6	1.27	32.2
PORTUGUESE.																										
Angra	N. 38 39	W. 27 14	10.19 a.m.	144	44	.....	.....	.....	.....	61.2	16.2	74.4	5	6	8	4	2	5	.....	.....	.....	.....	.....	4	2.06	52.3
Campo Major	N. 39 02	W. 6 59	11.40 a.m.	945	288	29.02	737.2	30.02	762.4	64.2	17.9	52.6	2	3	10	5	7	.....	2	1	.....	.....	.....	7	1.64	41.7
Funchal	N. 32 38	W. 16 55	11.00 a.m.	82	25	30.11	704.8	30.20	767.0	65.7	18.7	63.4	.....	.....	.....	.....	23	.....	3	1	.....	3	.....	4	0.60	15.3
Lisbon	N. 38 42	W. 9 08	11.31 a.m.	335	102	29.73	755.2	30.10	764.4	61.2	16.2	62.9	6	5	8	4	6	.....	.....	.....	1	.....	.....	6	2.14	54.4
Ponta Delgada	N. 37 45	W. 25 41	10.25 a.m.	66	20	30.11	704.9	30.19	766.7	64.2	17.9	66.9	3	2	10	7	5	3	.....	.....	.....	.....	.....	5	1.65	41.9
St. Paulde Loanda	S. 8 49	E. 13 07	1.00 p.m.	193	59	29.70	754.3	29.90	759.4	81.1	27.3	84.5	.....	5	12	9	.....	.....	4	.....	.....	.....	.....	5	3.70	93.9
Serra da Estrella	N. 40 25	W. 7 35	11.37 a.m.	4728	1441	25.23	640.8	30.02	762.5	42.3	5.7	79.4	1	8	12	.....	2	2	5	.....	.....	.....	.....	8	30.70	779.7
RUSSIAN.																										
Akmolinski	N. 51 12	E. 71 23	4.54 p.m.	843?	306?	28.84	732.5	29.96	760.9	31.8	—0.1	75.5	4	1	3	8	6	2	4	2	.....	.....	.....	6	0.32	8.2
Archangel	N. 64 33	E. 40 32	2.50 p.m.	16	5	29.89	759.2	29.91	759.7	33.6	0.9	76.3	4	6	8	1	7	1	1	1	1	.....	.....	7	0.13	3.4
Astrakhan	N. 46 21	E. 48 02	3.20 p.m.	‖ 68	‖ 21	30.03	702.7	29.94	760.6	50.5	10.3	53.5	5	5	5	2	1	5	4	3	2	.....	.....	8	0.92	23.5
Barnaul	N. 53 20	E. 83 47	5.43 p.m.	459?	140?	29.58	751.2	30.10	764.4	37.4	3.0	56.6	3	1	6	5	.....	.....	1	7	7	.....	.....	7	0.37	9.5
Dorpat	N. 58 23	E. 26 43	1.55 p.m.	223	68	29.71	754.7	29.96	761.0	47.8	8.8	60.3	3	2	5	6	3	4	2	5	.....	.....	.....	7	0.69	17.6
Ekaterinburg	N. 56 49	E. 60 38	4.10 p.m.	894?	272?	28.90	734.0	29.88	759.0	37.2	2.9	53.5	2	1	7	7	2	5	1	5	.....	.....	.....	7	0.29	7.3
Kasan	N. 55 47	E. 49 08	3.24 p.m.	249	76	29.66	753.3	29.94	760.4	38.1	3.4	58.9	5	4	.....	7	5	3	2	2	2	.....	.....	6	0.22	5.7
Kertch	N. 45 21	E. 36 29	2.34 p.m.	18?	6?	29.87	758.7	29.89	759.2	50.0	10.0	70.0	6	1	.....	.....	5	6	1	9	2	.....	.....	5	0.74	18.9
Kieff	N. 50 27	E. 30 30	2.10 p.m.	600	183	29.27	743.5	29.91	759.6	51.6	10.9	49.8	9	.....	1	2	2	4	4	6	2	.....	.....	6	0.50	12.8
Lugan	N. 48 35	E. 39 20	2.45 p.m.	188?	57?	29.70	754.4	29.91	759.6	53.6	12.0	40.5	5	5	1	6	3	3	4	.....	.....	.....	.....	8	0.19	4.8
Moscow	N. 55 46	E. 37 40	2.39 p.m.	448	136	29.41	747.0	29.89	759.3	44.8	7.1	54.2	9	4	1	2	11	.....	1	1	1	.....	.....	6	1.59	40.3
Nikolaiev	N. 46 58	E. 31 58	2.16 p.m.	62	19	29.89	759 3	29.96	761.1	58.6	14.8	49.5	4	1	1	1	7	.....	2	7	7	.....	.....	3	0.24	6.1
Nikolaievsk	N. 53 08	E.140 45	9.31 p.m.	75?	23?	29.71	754.6	29.80	756.8	30.2	—1.0	72.7	1	.....	1	.....	.....	2	5	1	19	.....	.....	5	0.62	15.8
Pekin	N. 39 57	E.116 28	7.54 p.m.	123?	38?	29.80	756.9	29.94	760.5	61.9	16.6	38.6	.....	4	.....	5	.....	4	.....	17	.....	.....	.....	3	0.37	9.3
St. Petersburg	N. 59 56	E. 30 16	2.09 p.m.	15	5	29.93	760.3	29.95	760.7	43.5	6.4	56.7	.....	9	4	3	3	5	2	4	.....	.....	.....	6	0.59	15.0
Semipalatinsk	N. 50 24	E. 80 13	5.29 p.m.	607?	185?	29.38	746.3	30.06	763.4	41.9	5.5	52.6	5	.....	2	3	1	1	4	3	11	.....	.....	5	inap.	inap.
Tashkend	N. 41 19	E. 69 16	4.45 p.m.	1493?	455?	28.38	720.7	29.92	760.0	63.1	17.3	66.5	3	5	.....	.....	.....	.....	.....	4	18	.....	.....	7	2.48	63.0
Tiflis	N. 41 43	E. 44 47	3.07 p.m.	1343	409	28.48	723.5	29.89	759.1	59.2	15.1	44.8	2	17	.....	.....	1	8	.....	.....	2	.....	.....	7	2.51	63.7
Vladivostock	N. 43 09	E.132 00	8.56 p.m.	59?	18?	29.86	758.4	29.93	760.1	38.5	3.6	81.0	3	3	2	2	3	6	1	2	8	.....	.....	7	2.91	73.8
Warsaw	N. 52 13	E. 21 02	1.32 p.m.	392	119	29.48	748.8	29.91	759.6	54.7	12.6	48.8	4	3	3	3	5	4	3	4	1	.....	.....	7	.....	.....
Wilna	N. 54 41	E. 25 18	1.49 p.m.	388	118	29.54	750.3	29.96	760.9	52.2	11.2	53.3	6	1	4	4	7	3	3	2	.....	.....	.....	7	0.83	21.1
Yeniseisk	N. 58 27	E. 92 06	6.16 p.m.	262?	80?	29.72	754.8	30.01	762.3	33.8	1.0	57.5	.....	6	14	4	2	1	3	.....	.....	.....	.....	5	0.54	13.7
SPANISH.																										
Barcelona	N. 41 23	E. 2 11	0.16 p.m.	98	30	29.80	756.9	29.91	759.6	63.0	17.2	65.6	.....	.....	.....	1	10	7	7	4	1	.....	1870	3009	3	1.39	35.3
Bilbao	N. 43 15	W. 2 59	11.56 a.m.	52	16	29.91	759.7	29.97	761.2	64.4	18.0	60.	5	17	3	.....	1	2	1	1	.....	2429	3909	7	3.56	90.3
Burgos	N. 42 20	W. 3 46	11.53 a.m.	2821	860	27.00	685.9	29.96	760.9	55.8	13.2	55.	6	.....	2	11	7	.....	.....	.....	.....	662	1065	6	1.35	34.2
Madrid	N. 40 25	W. 3 42	11.53 a.m.	2152	656	27.75	704.8	29.95	760.6	56.8	13.8	47.9	1	2	7	13	2	2	.....	3	.....	948	1525	6	0.70	17.9
Murcia	N. 37 59	W. 1 10	0.03 p.m.	141	43	29.80	756.9	29.93	760.2	62.6	17.0	56.0	.....	9	2	2	7	4	3	3	.....	1952	3141	6	1.67	42.4
Santiago	N. 42 53	W. 8 28	11.34 a.m.	863	263	29.04	737.6	29.94	760.4	57.0	13.9	74.8	2	2	6	9	2	1	1	1	6	700	1127	8	10.97	278.7
Sub-Series.																										
Havana	N. 23 08	W. 82 28	7.39 a.m.	62	19	29.96	760.9	30.02	762.5	74.4	23.6	83.1	.....	.....	.....	2	3	8	10	1	6	.....	.....	3	4.90	124.8
Manilla	N. 14 35	E. 121 00	8.12 p.m.	56	17	29.86	758.4	29.91	759.8	82.6	28.1	70.6	2	.....	.....	1	2	4	20	1	.....	.....	.....	4	1.61	40.8
San Fernando	N. 36 28	W. 6 13	11.43 a.m.	95	29	30.00	762.0	30.10	764.5	65.9	15.4	61.3	1	3	14	4	1	.....	3	.....	4	.....	.....	5	1.88	47.8
San Juan de Porto Rico	N. 18 30	W. 66 10	7.44 a.m.	82	25	29.98	761.4	30.07	763.7	76.1	24.5	86.	.....	.....	.....	.....	4	7	2	2	15	.....	.....	3	1.78	45.2
Tuguegarao	N. 17 37	E. 121 30	8.15 p.m.	125	38	29.81	757.2	29.94	760.5	78.8	26.0	77.9	1	22	.....	1	5	.....	.....	1	.....	.....	.....	6	0.74	18.1

‖ Below sea level.

STATIONS.	Latitude.	Longitude.	Local Time.	Altitude of Barometer above sea.		Result of Simultaneous Observations for April, 1882.																		Average Cloudiness.	Total Precipitation.	
						Mean Barometer.				Mean Temperature.		Mean Rel. Humidity.	Wind.													
						Actual.		Reduced.					Directions.									Total Movement.				
				Feet.	Met'rs	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.		N	NW	W	SW	S	SE	E	NE	C	Miles	Kil.	0–10	Inch.	Mill.
SWEDISH.	° ′	° ′																								
Haparanda	N. 65 47	E. 24 03	1.44 p.m.	29	9	29.87	758.8	29.91	759.8	34.9	1.6	72	8	1	1	3	9	3	.....	4	1	.....	.....	6	2.56	64.9
Umea	N. 63 50	E. 20 17	1.29 p.m.	39	12	29.87	758.7	29.92	760.0	39.0	3.9	72	3	4	2	10	2	.....	2	7	.....	.....	.....	7	1.99	50.5
Hernosand	N. 62 32	E. 17 57	1.20 p.m.	46	14	29.85	758.3	29.91	759.6	39.2	4.0	67	5	3	1	.....	5	4	2	4	6	.....	.....	6	1.46	37.1
Stockholm	N. 59 20	E. 18 04	1.20 p.m.	144	44	29.73	755.1	29.91	759.6	44.8	7.1	55	1	1	7	3	3	3	7	5	.....	.....	.....	5	0.96	24.5
Wisby	N. 57 39	E. 18 19	1.20 p.m.	52	16	29.85	758.1	29.91	759.6	44.8	7.1	72	5	1	9	4	4	3	1	3	.....	.....	.....	4	0.83	21.0
Sub-Series.																										
Upsala	N. 59 51	E. 17 37	1.19 p.m.	79	24	29.79	756.6	29.87	758.8	45.3	7.4	58.2	6	3	4	3	4	2	5	3	.....	.....	.....	6	1.87	47.6
SWISS.																										
Geneva	N. 46 12	E. 6 08	0.33 p.m.	1338	408	28.48	723.5	29.91	759.8	52.9	11.6	49.5	12	5	4	2	5	1	.....	1	.....	.....	.....	5	4.02	102.1
TURKISH.																										
Constantinople	N 41 00	E. 28 59	2.04 p.m.	230	70	.....	.....	29.91	759.8	57.6	14.2	56	14	.....	.....	9	2	3	.....	2	.....	.....	.....	6	0.91	23.1
Valona	N. 40 27	E. 19 27	1.25 p.m.	105	32	.....	.....	29.95	760.7	63.7	17.6	.....	.....	10	8	10	1	1	.....	.....	.....	.....	.....	5	4.53	175.0
Sub-Series.																										
Beirut	N. 33 54	E. 35 28	2.30 p.m.	111	34	.....	.....	29.88	759.0	67.5	19.7	72.8	4	2	6	14	1	.....	1	2	.....	.....	.....	5	6.25	158.7
UNITED STATES.																										
Albany	N. 42 40	W. 73 45	7.13 a.m.	75	23	29.96	761.0	30.04	763.0	43.9	6.6	60.3	7	6	7	2	4	1	.....	2	1	5513	8872	6	1.27	32.3
Alpena	N. 45 05	W. 83 28	6.34 a.m.	609	185	29.40	746.7	30.09	764.3	34.0	1.1	73.0	2	9	6	.....	2	2	5	4	.....	7410	11925	5	2.65	67.3
Atlanta	N. 33 45	W. 84 23	6.31 a.m.	1131	345	28.90	734.0	30.09	764.3	57.6	14.2	78.5	2	4	5	2	1	5	9	2	.....	5278	8494	6	5.21	132.3
Atlantic City	N. 39 22	W. 74 25	7.11 a.m.	13	4	30.04	763.0	30.05	763.3	44.1	6.7	76.1	6	3	5	3	3	2	2	6	.....	7578	12195	6	3.21	81.5
Augusta	N. 33 28	W. 81 54	6.41 a.m.	183	56	29.91	759.7	30.10	764.5	59.9	15.5	82.7	1	.....	1	3	1	3	.....	6	15	2739	4408	5	4.77	121.2
Baltimore	N. 39 18	W. 76 38	7.02 a.m.	45	14	30.05	763.3	30.10	764.5	47.5	8.6	67.9	6	7	2	1	2	.....	2	5	5	4422	7116	6	2.14	54.4
Barnegat	N. 39 48	W. 74 09	7.12 a.m.	20	6	30.04	763.0	30.06	763.5	44.3	6.8	73.3	7	5	4	3	4	1	2	4	.....	9680	15578	6	4.16	105.7
Bismarck	N. 46 48	W. 100 38	5.26 a.m.	1694	516	28.18	715.8	30.05	763.3	34.2	1.2	84.4	3	4	.....	1	1	6	10	5	.....	10035	16149	7	3.56	90.4
Boise City	N. 43 46	W. 116 06	4.24 a.m.	2750	838	27.16	689.9	30.00	762.0	39.9	4.4	75.8	1	7	14	1	.....	2	3	1	1	5064	8150	5	2.33	59.2
Boston	N. 42 21	W. 71 04	7.23 a.m.	142	43	29.86	758.4	30.02	762.5	38.7	3.7	67.6	1	10	7	3	.....	3	1	5	.....	8239	13259	4	2.50	63.5
Brownsville	N. 26 00	W. 97 30	5.38 a.m	43	13	29.87	758.7	29.92	760.0	71.2	21.8	90.0	2	2	.....	.....	3	14	.....	2	7	5614	9035	7	1.63	41.4
Buffalo	N. 42 53	W. 78 55	6.52 a.m.	696	212	29.27	743.4	30.04	763.0	38.4	3.6	74.3	2	1	2	10	5	.....	....	8	2	7666	12337	7	2.23	56.6
Burlington	N. 44 29	W. 73 13	7.15 a.m.	268	82	29.70	754.4	30.00	762.0	35.8	2.1	69.2	7	1	3	.....	4	1	.....	.....	14	5293	8518	6	1.23	31.2
Cairo	N. 37 00	W. 89 12	6.11 a.m.	377	115	29.66	753.4	30.07	763.8	55.4	13.0	75.5	5	1	2	2	7	4	4	2	3	6481	10430	5	4.14	105.2
Campc *b*	N. 32 22	W. 116 08	4.22 a.m.	2500	762	27.42	696.5	30.00	762.0	36.3	2.4	85.0	.....	4	3	6	8	4	... ..	2	1	3979	6404	2	1.10	27.9
Camp Thomas	N. 33 04	W. 110 06	4.49 a.m.	2710	826	27.17	690.1	29.90	759.4	44.8	7.1	59.1	1	5	.....	.....	.....	8	1	....	15	.....	.....	1	0.02	0.5
Cape Henry	N. 36 56	W. 76 00	7.04 a.m.	16	5	30.07	763.8	30.09	764.3	51.5	10.8	75.4	4	5	.....	7	3	2	....	9	.....	9757	15702	5	3.92	99.6
Cape May *a*	N. 38 56	W. 74 58	7.08 a.m.	27	8	30.04	763.0	30.07	763.8	46.8	8.2	75.1	2	3	4	3	2	3	3	8	1	9432	15179	5	2.44	62.0
Castroville	N. 29 25	W. 98 50	5.33 a.m.	780	238	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cedar Keys	N. 29 12	W. 83 02	6.36 a.m.	22	7	30.04	763.0	30.06	763.5	69.5	20.8	83.3	3	1	3	3	2	2	4	11	1	7053	11350	6	3.00	76.2
Champaign	N. 40 07	W. 88 14	6.15 a.m.	767	234	29.20	741.7	30.04	763.0	45.8	7.7	77.8	3	2	.....	3	6	1	4	11	.....	10051	16175	7	3.86	98.0
Charleston	N. 32 45	W. 79 55	6.49 a.m.	52	16	30.01	762.2	30.07	763.8	62.8	17.1	84.3	4	2	3	7	.....	.....	2	9	3	6064	9759	6	2.72	69.1
Charlotte	N. 35 13	W. 80 51	6.45 a.m.	808	246	29.20	741.7	30.06	763.5	54.8	12.7	78.7	2	.....	3	7	4	1	6	7	.....	4186	6737	7	5.93	150.6
Chattanooga	N. 35 04	W. 85 15	6.27 a.m.	783	239	29.26	743.2	30.09	764.3	56.2	13.4	76.7	4	2	1	5	4	1	.....	7	6	4634	7458	5	4.61	117.1
Cheyenne	N. 41 12	W. 104 42	5.09 a.m.	6089	1856	23.92	607.6	29.92	760.0	31.9	—0.1	63.5	7	8	6	4	1	1	2	1	.....	7990	12858	4	0.46	11.7
Chicago	N. 41 52	W. 87 35	6.18 a.m.	661	201	29.32	744.7	30.05	763.3	43.4	6.3	77.7	4	6	2	5	2	2	7	2	.....	7275	11708	6	6.72	170.7
Chincoteague	N. 37 55	W. 75 20	7.06 a.m.	18	5	30.05	763.2	30.07	763.8	47.4	8.6	76.9	5	8	1	3	1	2	4	6	.....	8035	12931	5	0.63	16.0
Cincinnati	N. 39 06	W. 84 26	5.30 a.m.	620	189	29.40	746.7	30.07	763.8	49.8	9.9	72.5	9	1	1	3	3	8	2	3	.....	4421	7115	6	2.71	68.8
Cleveland	N. 41 30	W. 81 47	6.42 a.m.	690	210	29.31	744.5	30.07	763.8	42.1	5.6	70.4	2	1	4	5	4	2	2	10	.....	6833	10996	7	2.20	55.9
Coleman City *b*	N. 31 55	W. 99 10	5.32 a.m.	1709	521	28.15	715.0	29.97	761.2	55.6	13.1	81.9	2	2	2	2	7	9	1	3	.....	7017	11293	5	0.24	6.1
Columbus	N. 39 57	W. 83 03	6.36 a.m.	805	245	29.19	741.4	30.06	763.5	44.9	7.2	74.2	9	2	3	2	4	1	1	8	.....	5950	9575	6	4.87	123.7
Concho	N. 31 22	W. 100 20	5.26 a.m.	1900	579	28.03	711.9	29.97	761.2	55.5	13.1	76.3	3	1	5	2	4	4	2	2	7	8363	13459	5	0.17	4.3
Davenport	N. 41 32	W. 90 30	6.06 a.m.	615	187	29.36	745.7	30.03	762.7	46.0	7.8	73.1	1	5	1	5	1	2	9	5	1	7665	12335	6	3.15	80.0
Dayton	N. 46 23	W. 117 50	4.16 a.m.	1660	506	28.25	717.5	30.00	762.0	37.4	3.0	82.1	1	.....	1	15	2	2	2	5	2	4145	6671	5	4.08	103.6
Deadwood	N. 44 22	W. 103 34	5.14 a.m.	4600	1402	25.28	642.1	29.97	761.2	32.9	0.5	80.0	2	.....	.....	10	3	1	.....	4	10	3178	5114	5	7.31	185.7
Decatur *c*	N. 33 10	W. 97 30	5.38 a.m.	1129	344	.....	.....	.....	.....	58.7	14.8	62.0	5	4	1	2	4	6	.....	5	.....	7938	12775	4	1.99	50.5
Del. Breakwater	N. 38 48	W. 75 05	7.08 a.m.	20	6	30.06	763.5	30.08	764.0	45.6	7.6	82.0	2	4	4	5	1	3	3	8	.....	11473	18464	5	2.07	52.6
Denison *b*	N. 33 50	W. 96 40	5.41 a.m.	767	234	29.16	740.7	29.96	761.0	57.8	14.3	81.4	6	2	.....	2	12	2	2	2	.....	5082*d*	8178*d*	5	2.60	66.0
Denver	N. 39 45	W. 105 04	5.08 a.m.	5294	1614	24.63	625.6	29.90	759.4	38.4	3.6	62.1	4	4	.....	3	11	7	.....	1	.....	6093	9806	4	1.47	37.3
Des Moines	N. 41 35	W. 93 40	5.53 a.m.	849	259	29.10	739.1	30.03	762.7	43.3	6.3	76.0	7	3	1	3	2	5	5	2	2	6351	10221	6	3.47	88.1
Detroit	N. 42 21	W. 83 07	6.36 a.m.	601	201	29.34	745.2	30.07	763.8	42.8	6.0	72.1	7	5	5	3	1	.....	1	8	.....	8072	12990	5	1.13	28.7
Dodge City	N. 37 39	W. 100 08	5.27 a.m.	2512	766	27.32	693.9	29.96	761.0	42.8	6.0	75.5	6	3	3	2	7	3	1	2	3	19109	17879	4	0.68	17.3
Dubuque	N. 42 30	W. 90 44	6.05 a.m.	665	203	29.30	744.2	30.03	762.7	41.8	5.4	70.5	2	3	4	1	2	2	8	6	2	4786	7702	6	4.47	113.5
Duluth	N. 46 48	W. 92 08	6.00 a.m.	644	184	29.40	746.7	30.12	765.0	33.9	1.1	73.3	3	6	.....	3	.....	.....	.....	16	2	7589	12213	5	2.51	63.8
Eagle Pass	N. 28 40	W. 100 15	5.26 a.m.	780	238	29.16	740.7	29.97	761.2	64.0	17.8	77.3	1	3	.....	.....	.....	16	.....	5	5	5474	8809	6	1.25	31.7
Eagle Rock	N. 43 30	W. 112 04	4.40 a.m.	4650	1415	25.22	640.6	29.94	760.5	32.3	0.2	80.2	11	.....	2	13	1	.....	1	1	1	8702	14004	4	3.35	85.1
Eastport	N. 44 55	W. 66 54	7.40 a.m.	61	18	29.90	759.4	29.97	761.2	32.7	0.4	72.0	8	8	1	5	3	.....	3	2	.....	7472	12025	5	3.03	77.0
El Paso	N. 31 46	W. 106 32	5.02 a.m.	3760	1146	26.22	666.0	29.96	761.0	49.1	9.5	46.1	2	13	4	.....	.....	1	6	3	1	6437	10359	2	c	c
Erie	N. 42 07	W. 80 10	6.47 a.m.	681	208	29.30	744.2	30.05	763.3	42.4	5.8	73.9	1	4	1	6	2	1	1	8	6	7603	12236	6	3.31	84.1
Escanaba	N. 45 46	W. 87 14	6.20 a.m.	612	186	29.42	747.3	30.11	764.8	33.5	0.8	76.0	14	4	2	.....	1	1	2	3	3	7535	12126	6	1.30	33.0
Florence	N. 33 03	W. 111 17	4.43 a.m.	1480	451	28.42	721.9	29.92	760.0	47.4	8.6	53.2	4	.....	6	10	2	2	1	4	1	2947	4744	1	limp.	limp.
Fort Apache	N. 33 47	W. 109 58	4.49 a.m.	5050	1539	25.00	635.0	29.92	760.0	32.7	0.4	69.1	.....	.....	1	1	.....	.....	11	16	1	6160	9913	2	0.91	23.1
Fort Assinnaboine	N. 48 37	W. 109 43	4.49 a.m.	2710	826	27.13	689.1	30.03	762.7	33.6	0.9	71.3	1	1	2	9	3	1	2	10	1	7817	21580	6	0.84	21.3
Fort Bennett	N. 44 42	W. 100 38	5.26 a.m.	1510	457	28.39	721.1	30.03	762.7	37.9	3.3	82.0	7	2	2	1	.....	9	3	4	2	8095	13027	7	3.04	77.2
Fort Benton	N. 47 51	W. 110 40	4.45 a.m.	2700	823	27.16	689.9	30.02	762.5	34.4	1.3	70.6	1	1	1	4	.....	.....	3	8	12	7256	11677	6	1.22	31.0
Fort Buford	N. 48 03	W. 103 58	5.12 a.m.	1900	579	28.03	711.9	30.10	764.5	34.5	1.4	77.9	2	2	4	.....	.....	5	7	9	1	8880	14291	7	0.94	23.9
Fort Custer	N. 45 48	W. 107 38	4.58 a.m.	3040	927	26.77	679.9	29.95	760.7	36.2	2.3	80.5	6	2	5	2	5	6	2	1	1	6951	11186	7	1.12	28.4
Fort Davis	N. 30 30	W. 103 45	5.13 a.m.	4940	1506	25.17	639.3	29.96	761.0	47.1	8.4	56.8	6	1	1	3	10	3	.....	.....	6	4786	7703	2	0.26	6.6
Fort Elliott	N. 35 31	W. 100 27	5.28 a.m.	2650	808	27.10	689.9	29.94	760.5	44.0	6.7	53.4	1	5	.....	1	6	6	2	6	3	10712	17239	4	0.66	16.8
Fort Gibson	N. 35 43	W. 95 16	5.48 a.m.	540	165	29.41	747.0	29.99	761.7	55.7	13.2	78.0	4	1	1	.....	7	6	4	2	5	6854	11030	5	1.24	31.5
Fort Grant	N. 32 25	W. 109 56	4.49 a.m.	4860	1481	25.19	639.8	29.92	760.0	44.9	7.2	36.0	2	1	.....	4	1	5	10	3	4	5774	9292	2	0.07	1.8
Fort Griffin	N. 32 53	W. 99 21	5.33 a.m.	1260	384	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Fort Keogh	N. 46 17	W. 105 55	5.05 a.m.	2372	723	27.45	697.2	29.99	761.7	36.7	2.6	71.7	2	5	3	3	.....	10	1	5	1	9163	14746	7	2.06	52.3
Fort Macon	N. 34 42	W. 76 40	7.01 a.m.	11	3	30.07	763.8	30.08	764.0	56.8	13.8	86.2	7	4	3	4	1	2	1	8	.....	9204	14812	5	5.55	141.0
Fort McKavett	N. 30 48	W. 99 58	5.28 a.m.	2240	683	27.74	704.6	30.00	762.0	57.6	14.2	70.6	2	1	.....	9	10	5	2	1	.....	7468	12018	3	0.70	17.8
Fort Missoula	N. 46 50	W. 114 01	4.32 a.m.	3140	957	26.68	677.7	29.98	761.5	34.3	1.3	86.2	5	6	2	13	2	.....	1	1	.....	3308	5324	5	0.65	16.5
Fort St. Michael	N. 63 48	W. 162 00	1.20 a.m.	30	9	30.03	762.7	30.07	763.8	13.7	—10.2	93.4	4	4	... ..	5	8	5	.....	2	2	4899	7898	2	0.04	1.0
Fort Shaw	N. 47 29	W. 111 46	4.41 a.m.	3550	1082	26.32	668.5	29.99	761.7	31.6	—0.2	74.7	4	2	14	4	2	.....	1	1	2	6887	11083	5	0.97	24.6
Fort Sill	N. 34 40	W. 98 30	5.34 a.m.	1200	366	28.72	729.5	29.96	761.0	51.6	10.9	79.2	10	2	.....	1	10	3	.....	.....	4	10753	17305	4	1.61	40.9
Fort Stevenson *f*	N. 47 36	W. 101 23	5.22 a.m.	1750	534	28.08	713.2	29.98	761.5	33.1	0.6	89.1	2	1	4	.....	1	4	4	6	2	6454*h*	10386*h*	6	5.36	136.1
Fort Verde	N. 34 24	W. 111 53	4.38 a.m.	7	7	.....	.....	.....	.....	43.1	6.2	49.1	5	2	6	6	5	3	.....	3	.....	.....	.....	.....	0.03	0.8
Fort Washakie	N. 42 59	W. 108 43	4.50 a.m.	5580	1702	24.36	618.7	.....	.....	31.3	—0.4	79.1	.....	8	5	3	3	6	1	1	3	5283	8502	6	1.81	46.0
Fredericksburg	N. 30 20	W. 98 40	5.33 a.m.	1700	518	28.22	716.8	29.94	760.5	59.6	15.3	88.2	1	4	2	9	3	3	.....	4	4	5589	8994	7	0.78	19.8
Galveston	N. 29 18	W. 94 50	5.49 a.m.	48	15	29.94	760.5	29.98	761.5	69.6	20.9	87.5	3	2	.....	5	8	7	4	1	.....	9551	15371	7	0.83	21.1
Grand Haven	N. 43 05	W. 86 18	6.23 a.m.	620	189	29.38	746.2	30.07	763.8	40.3	4.6	72.5	2	8	2	2	4	.....	4	8	.....	9580	15417	5	2.17	55.1
Hatteras	N. 35 14	W. 75 30	7.06 a.m.	19	6	30.05	763.3	30.07	763.8	55.6	13.1	81.4	7	2	2	5	1	.....	3	10	.....	12935	20816	6	4.07	103.4
Helena	N. 46 33	W. 112 02	4.40 a.m.	4100	1250	25.74	653.8	30.00	762.0	34.5	1.4	67.3	.....	5	16	6	.....	.....	.....	1	2	4752	7647	6	0.94	23.9
Henrietta	N. 33 42	W. 98 00	5.36 a.m.	980	300	29.00	736.6	30.03	762.7	56.0	13.3	78.8	8	3	.....	1	14	1	.....	2	1	9016	14510	3	0.80	20.3
Huron	N. 44 21	W. 98 17	5 35 a.m.	1305	398	28.58	725.9	30.03	762.7	36.8	2.7	78.5	4	5	2	.....	2	7	5	5	.....	10010	16109	6	4.18	106.2
Indianapolis	N. 39 47	W. 86 00	6.24 a.m.	753	229	29.23	742.4	30.05	763.3	47.8	8.8	71.9	8	1	1	3	3	2	5	4	3	4386	7058	5	3.68	93.5
Indianola	N. 28 32	W. 96 38	5.42 a.m.	26	8	29.93	760.2	29.96	761.0	70.1	21.2	89.9	3	.....	1	1	8	12	3	2	.....	11098	17860	6	1.26	32.0
Jacksboro *k*	N. 33 10	W. 98 00	5.35 a.m.	1120	341	28.80	731.5	29.98	761.5	59.1	15.1	79.5	3	1	.....	3	4	6	.....	2	.....	4886	7863	3	0.54	13.7
Jacksonville	N. 30 24	W. 81 40	6.41 a.m.	43	13	30.02	762.5	30.06	763.5	67.6	19.8	84.9	2	1	1	4	5	1	6	10	.....	5400	8690	5	5.23	132.8
Keokuk	N. 40 23	W. 91 25	6.02 a.m.	618	188	29.33	745.0	30.00	762.0	47.3	8.5	76.1	2	3	1	5	2	2	8	4	3	5686	9151	4	3.22	81.8
Key West	N. 24 32	W. 81 48	6.41 a.m.	20	6	30.02	762.5	30.04	763.0	76.4	24.7	76.8	1	.....	.....	2	4	4	6	7	5	6782	10914	5	3.93	99.8
KittyHawk	N. 36 00	W. 75 23	7.05 a.m.	22	7	30.07	763.8	30.09	764.3	51.9	11.1	80.4	3	2	7	2	3	.....	4	9	.....	11854	19077	5	4.92	125.0
Knoxville	N. 35 56	W. 83 58	6.32 a.m.	980	299	29.05	737.9	30.09	764.3	53.5	11.9	77.0	9	.....	2	1	6	2	.....	6	5	4654	7490	5	3.88	98.6
La Crosse	N. 43 48	W. 91 23	6.03 a.m.	725	221	29.25	742.9	30.05	763.3	42.5	5.8	62.4	9	2	1	1	6	4	3	4	.....	6774	10902	4	1.91	48.5
La Mesilla	N. 32 17	W. 106 48	5.01 a.m.	3900	1189	26.06	661.9	29.94	760.5	42.9	6.1	50.9	1	1	1	.....	.....	5	.....	.....	22	3129	5036	2	0.01	0.3
Leavenworth	N. 39 19	W. 94 57	5.48 a.m.	842	256	29.09	738.9	30.00	762.0	49.8	9.9	72.2	4	5	.....	.....	8	3	3	.....	7	6369	10250	6	4.15	105.4
Lewiston	N. 46 25	W. 116 59	4.20 a.m.	780	238	29.17	740.9	30.02	762.5	41.2	5.1	66.9	.....	1	6	2	1	7	7	3	3	2692	4332	5	0.80	20.3

STATIONS.	Latitude.	Longitude.	Local Time.	Altitude of Barometer above sea		Result of Simultaneous Observations for April, 1882.																				Average Cloudiness.	Total Precipitation.	
						Mean Barometer.				Mean Temperature.		Mean Rel. Humidity.	Wind.															
						Actual.		Reduced.					Directions.									Total Movement.						
				Feet.	Met'rs	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.		N	NW	W	SW	S	SE	E	NE	C	Miles	Kil.		Inch.	Mill.
U. S.—Continued.	o '	o '																							0–10		
Little Rock	N. 34 40	W. 92 12	5.59 a.m.	298	91	29.70	754.4	30.02	762.5	57.5	14.2	85.1	1	5	.....	3	3	5	2	6	5	4476	7203	4	5.59	142.0
Los Angeles	N. 34 03	W. 118 16	4.15 a.m.	371	113	29.67	753.6	30.07	763.8	48.2	9.0	80.8	4	7	2	4	.....	2	1	6	4	2876	4628	3	1.83	46.5
Louisville	N. 38 18	W. 85 52	6.25 a.m.	530	162	29.46	748.3	30.02	762.5	51.8	11.0	70.8	7	.....	.....	3	8	2	2	6	2	6036	9714	7	2.17	55.1
Lynchburg *a*	N. 37 30	W. 79 02	6.52 a.m.	652	199	29.40	746.7	30.11	764.8	50.8	10.4	69.5	.....	.....	1	3	4	.....	2	4	15	2640	4249	5	2.30	58.4
Madison	N. 43 03	W. 89 30	6.10 a.m.	949	289	29.02	737.1	30.06	763.5	39.8	4.3	81.1	2	3	3	4	3	1	8	5	1	8613	13861	6	4.21	106.9
Marquette	N. 46 33	W. 87 36	6.19 a.m.	673	205	29.38	746.2	30.13	765.3	34.4	1.3	69.9	6	9	5	.....	2	2	2	4	.....	6917	11132	6	2.48	63.0
Memphis	N. 35 07	W. 90 07	6.08 a.m.	321	98	29.70	754.4	30.04	763.0	58.3	14.6	77.0	5	4	1	2	4	9	.....	4	1	5042	8114	4	3.56	90.4
Milwaukee	N. 43 03	W. 87 54	6.17 a.m.	697	212	29.29	744.0	30.06	763.5	40.5	4.7	79.2	3	6	6	5	.....	1	3	6	.....	9646	15524	6	1.92	48.8
Mobile	N. 30 42	W. 87 59	6.16 a.m.	41	12	30.00	762.0	30.04	763.0	64.8	18.2	84.2	8	.....	3	1	1	4	1	7	5	4289	6902	5	9.92	252.0
Montgomery	N. 32 22	W. 86 23	6.23 a.m.	219	66	29.83	757.7	30.06	763.5	61.2	16.2	82.4	7	1	1	4	2	8	4	1	2	3687	5934	5	5.03	127.8
Moorhead	N. 46 52	W. 96 40	5.41 a.m.	923	281	29.03	737.3	30.06	763.5	33.6	0.9	84.4	8	.....	1	1	3	8	2	5	2	9280	14944	4	1.69	42.9
Morgantown	N. 39 36	W. 79 52	6.48 a.m.	963	293	29.05	737.9	30.09	764.3	47.1	8.4	46.4	2	1	2	4	1	.....	1	4	15	4447	7157	6	3.36	85.3
Mt. Washington	N. 44 16	W. 71 16	7.22 a.m.	6279	1914	23.52	597.4	29.93	760.2	15.5	—9.2	84.7	3	18	3	.....	.....	1	.....	3	2	22005	35413	4	11.20	284.5
Nashville	N. 36 11	W. 86 53	6.21 a.m.	507	154	29.50	749.3	30.04	763.0	54.9	12.7	76.2	4	5	4	2	4	4	3	2	2	3329	5357	6	3.55	90.2
New Haven	N. 41 17	W. 72 57	7.16 a.m.	107	32	29.92	760.0	30.04	763.0	39.2	4.0	68.8	8	2	5	4	1	2	1	6	1	6194	9968	5	1.55	39.4
New London	N. 41 22	W. 72 09	7.19 a.m.	47	14	30.00	762.0	30.04	763.0	42.9	6.1	69.8	8	4	9	3	.....	2	.....	4	.....	6440	10364	3	3.40	86.4
New Orleans	N. 29 58	W. 90 07	6.08 a.m.	52	16	29.95	760.7	30.01	762.2	68.4	20.2	83.0	4	.....	2	3	3	4	10	3	1	6070	9768	6	4.83	122.7
Newport	N. 41 29	W. 71 19	7.23 a.m.	44	13	29.97	761.2	30.02	762.5	40.5	4.7	72.5	4	7	6	5	.....	1	1	5	1	7462	12009	5	4.54	115.3
New River *a*	N. 34 30	W. 77 23	6.58 a.m.	.....	.....	.....	.....	.....	.....	56.8	13.8	81.0	8	1	4	4	.....	.....	3	8	1	.....	.....	4	3.71	94.2
New Shoreham	N. 41 10	W. 71 37	7.22 a.m.	27	8	30.00	762.0	30.03	762.7	40.7	4.8	71.9	5	7	1	5	.....	2	2	1	7	11552	18591	5	4.83	122.7
New York	N. 40 43	W. 74 00	7.12 a.m.	164	50	29.89	759.2	30.07	763.8	41.9	5.5	73.2	9	3	4	0	.....	1	2	4	1	6991	11251	5	2.15	54.6
Norfolk	N. 36 51	W. 76 19	7.03 a.m.	30	9	30.06	763.5	30.09	764.3	53.2	11.8	75.9	5	4	2	3	2	3	4	7	.....	5525	8891	5	3.23	82.0
North Platte	N. 41 08	W. 100 53	5.24 a.m.	2841	866	27.01	686.0	29.97	761.2	40.0	4.4	77.3	2	8	2	3	.....	4	2	4	5	9412	15147	6	1.94	49.3
Olympia	N. 47 02	W. 122 56	3.56 a.m.	36	11	29.99	761.7	30.03	762.7	39.1	3.9	87.2	4	.....	.....	5	14	.....	.....	2	5	3866	6222	6	4.57	116.1
Omaha *a*	N. 41 16	W. 96 00	5.45 a.m.	1113	339	28.81	731.8	30.02	762.5	45.3	7.4	76.0	3	4	.....	4	2	7	3	3	3	8856	14252	6	4.31	109.5
Ooglaamie	N. 71 17	W. 156 40	1.41 a.m.	17	5	29.96	761.0	29.98	761.5	—0.7	—18.2	86.9	2	.....	8	2	7	6	4	.....	1	7852	12636	7	0.41	10.4
Oswego	N. 43 29	W. 76 35	7.01 a.m.	304	93	29.67	753.6	30.01	762.2	39.2	4.0	67.9	.....	5	6	2	2	6	.....	9	.....	8267	13304	5	2.08	52.8
Palestine	N. 31 45	W. 95 40	5.45 a.m.	523	162	29.45	748.0	30.01	762.2	61.5	16.4	86.1	3	2	3	3	9	4	2	4	.....	6924	11143	6	3.42	86.9
Pensacola	N. 30 25	W. 87 12	6.19 a.m.	30	9	30.01	762.2	30.04	763.0	66.6	19.2	85.9	8	1	1	1	3	3	8	4	1	6306	10148	6	4.27	108.5
Philadelphia	N. 39 57	W. 75 10	7.07 a.m.	92	28	29.98	761.5	30.08	764.0	45.6	7.6	66.8	4	7	4	2	1	3	2	7	.....	5932	9546	6	2.12	53.8
Pikes Peak	N. 38 50	W. 105 02	5.08 a.m.	14134	4308	17.57	446.3	29.85	758.2	9.5	—12.5	81.4	1	10	3	14	1	1	.....	.....	.....	16938	27259	3	1.79	45.5
Pioche	N. 37 57	W. 114 26	4.30 a.m.	6110	1862	23.96	608.6	29.95	760.7	35.1	1.7	58.0	5	8	1	1	12	.....	1	2	.....	6498	10457	4	0.98	24.9
Pittsburg	N. 40 32	W. 80 02	6.48 a.m.	762	232	29.23	742.4	30.06	763.5	44.9	7.2	67.6	6	8	2	2	5	.....	2	4	1	4636	7461	5	1.39	35.3
Port Eads	N. 29 00	W. 89 15	6.11 a.m.	7	2	30.01	762.2	30.02	762.5	69.9	21.1	90.5	4	1	1	4	4	6	5	1	9040	14548	4	3.50	88.9
Port Huron	N. 42 58	W. 82 29	6.38 a.m.	633	193	29.35	745.5	30.05	763.3	38.6	3.7	78.7	3	1	10	2	1	2	3	7	1	8003	12879	6	2.33	59.2
Portland, Maine	N. 43 40	W. 70 16	7.27 a.m.	45	14	29.94	760.5	29.98	761.5	39.9	4.4	60.6	4	8	3	2	2	1	3	5	2	6813	10964	6	1.97	50.0
Portland, Oregon	N. 45 30	W. 122 28	3.57 a.m.	67	20	29.98	761.5	30.05	763.3	42.6	5.9	82.2	.....	4	1	1	8	6	1	1	8	4793	7713	7	4.60	116.8
Portsmouth	N. 35 02	W. 76 04	7.04 a.m.	40	12	.....	.....	.....	.....	57.0	13.9	73.9	4	1	2	4	2	1	1	15	.....	12702	20442	6	5.57	141.5
Prescott	N. 34 29	W. 112 13	4.38 a.m.	5340	1628	24.70	627.4	29.92	760.0	36.2	2.3	49.2	1	.....	1	.....	28	.....	.....	.....	.....	6341	10205	1	0.28	7.1
Provincetown	N. 46 03	W. 70 11	7.27 a.m.	26	8	29.98	761.5	30.01	762.2	39.2	4.0	79.4	2	9	.....	6	1	6	1	5	.....	7903	12815	6	4.70	119.4
Punta Rassa *a*	N. 26 36	W. 82 10	6.40 a.m.	13	4	30.02	762.5	30.03	762.7	72.5	22.5	81.2	1	.....	1	3	5	3	8	8	.....	8632	13892	6	3.59	91.2
Red Bluff	N. 40 10	W. 122 16	3.59 a.m.	350	106	29.67	753.6	30.04	763.0	47.4	8.6	76.1	7	13	.....	1	4	1	.....	.....	4	4651	7485	3	2.12	53.8
Rio Grande City	N. 26 22	W. 98 45	5.33 a.m.	230	70	29.68	753.9	29.88	758.9	69.7	20.9	81.6	4	1	.....	.....	2	16	2	.....	5	5076	8169	7	1.50	38.1
Rochester	N. 43 08	W. 77 51	6 58 a.m.	621	189	29.34	745.2	30.03	762.7	38.4	3.6	74.6	2	2	8	4	1	4	2	6	1	9106	14654	6	2.18	55.4
Roseburg	N. 43 10	W. 123 16	3.55 a.m.	511	156	29.53	750.0	30.09	764.3	41.6	5.3	85.7	.....	3	.....	4	5	2	2	1	13	2756	4435	7	5.14	130.6
Sacramento	N. 38 35	W. 121 31	4.02 a.m.	70	21	29.97	761.2	30.05	763.3	49.2	9.6	79.6	7	3	1	.....	6	11	.....	.....	2	5785	9310	2	1.99	50.5
Saint Louis	N. 38 37	W. 90 15	6.07 a.m.	568	173	29.43	747.5	30.04	763.0	51.4	10.8	81.2	3	3	1	4	8	5	2	3	1	7817	12570	6	3.58	90.9
Saint Paul	N. 44 53	W. 93 05	5.56 a.m.	811	247	29.15	740.4	30.04	763.0	38.6	3.7	75.9	3	5	2	1	.....	4	8	3	4	6131	9867	4	1.61	40.9
Saint Vincent	N. 48 58	W. 97 03	5.40 a.m.	804	245	29.20	741.7	30.11	764.8	27.0	—2.8	81.6	6	4	2	.....	3	4	5	6	.....	8244	13267	4	0.90	22.9
Salt Lake City	N. 40 46	W. 111 54	4.40 a.m.	4348	1325	25.55	649.0	29.92	760.0	40.1	4.5	19.4	4	6	2	.....	.....	3	3	3	9	5009	8061	6	3.81	96.8
San Antonio	N. 29 28	W. 98 22	5.34 a.m.	673	205	29.25	742.9	29.95	760 7	63.5	17.5	85.2	4	1	1	1	2	4	4	1	12	4130c	6656c	7	0.92	23.4
San Diego *a*	N. 32 32	W. 117 08	4.20 a.m.	67	20	29.95	760.7	30.02	762.5	50.8	10.4	85.6	6	.....	4	4	.....	.....	5	10	.....	4767	7672	4	0.45	11.4
Sandusky	N. 41 27	W. 82 43	6.37 a.m.	639	195	29.36	745.7	30.06	763.5	44.0	6.7	71.7	3	4	5	5	3	1	3	6	.....	11093	16098	6	2.75	69.8
Sandy Hook	N. 40 28	W. 74 01	7.12 a.m.	28	8	30.03	762.7	30.07	763.8	42.9	6.1	77.5	5	9	4	.....	4	3	1	4	.....	10305	16584	5	3.19	81.0
San Francisco *a*	N. 37 48	W. 122 26	3.58 a.m.	60	18	30.02	762.5	30.09	764.3	48.6	9.2	81.4	.....	3	10	12	1	.....	.....	.....	3	7652	12316	4	1.22	31.0
Santa Fé	N. 35 41	W. 106 10	5.04 a.m.	7106	2166	23.14	587.7	29.90	759.4	38.3	3.5	50.0	2	4	.....	2	3	6	4	7	2	8068	12984	4	0.26	6.6
Savannah	N. 32 05	W. 81 08	6.44 a.m.	87	26	29.99	761.7	30.08	764.0	63.8	17.7	80.6	5	2	4	3	3	3	2	5	3	4947	7961	6	2.94	74.7
Shreveport	N. 32 30	W. 93 45	5.54 a.m.	227	69	29.77	756.1	30.01	762.2	60.7	15.9	87.2	5	.....	2	2	14	1	3	3	.....	4705	7668	7	5.44	138.2
Silver City	N. 32 48	W. 108 15	4.55 a.m.	5890	1795	24.20	614.7	29.88	758 9	36.9	2.7	48.0	...	10	11	1	5	1	.....	.....	2	3813	6136	1	0.08	2.0
Sitka	N. 57 03	W. 135 19	3.07 a m.	63	19	29.69	754.1	29.75	755.6	35.6	2.0	72.8	.....	5	.....	3	.....	5	5	7	5	6507	10472	6	4.21	106.9
Smithville	N. 33 55	W. 78 01	6.56 a.m.	34	10	30.04	763.0	30.08	764.0	59.0	15.0	86.4	4	2	6	3	1	1	5	8	.....	7561	12168	5	1.63	41.4
Spokane Falls	N. 47 39	W. 117 24	4.18 a.m.	1910?	582?	27.95	709.9	30.01	762 2	36.5	2.5	83.3	.....	.....	4	5	5	5	2	5	4	4866	7831	6	2.84	72.1
Springfield, Ill	N. 39 48	W. 89 48	6.10 a.m.	644	196	29.34	745.2	30.04	763.0	49.4	9.7	70.7	1	3	1	3	5	3	5	6	3	6659	10716	5	3.85	97.8
Springfield, Mass	N. 42 06	W. 72 36	7.18 a.m.	120	37	29.91	759.7	30.04	763.0	41.4	5.2	64.5	8	5	4	3	7	.....	1	1	1	4934	7940	6	1.35	34.3
Springfield, Mo	N. 37 12	W. 93 18	5.55 a.m.	1351	412	28.56	725.4	30.08	764.0	51.8	11.0	76.0	4	1	3	1	9	4	4	4	.....	7881	12683	5	3.71	94.2
Stockton	N. 30 50	W. 102 50	5.16 a.m.	3010	917	26.94	684.3	29.97	761.2	49.3	9.6	68.2	2	...	2	4	12	2	.....	1	7	7733	12445	3	0.12	3.0
Thatcher's Island	N. 42 36	W. 70 34	7.26 a.m.	48	15	29.94	760.5	29.99	761.7	39.5	4.2	77.3	2	11	1	4	4	3	1	4	.....	10033	16147	4	2.73	69.3
Toledo	N. 41 40	W. 83 32	6.34 a.m.	651	198	29.34	745.2	30.06	763.5	42.9	6.1	71.6	5	2	11	3	.....	.....	6	2	1	7856	12643	6	1.66	42.2
Tucson	N. 32 14	W. 110 56	4.44 a.m.	2369	722	27.51	698.7	29.90	759.4	49.4	9.7	55.4	.....	.....	2	1	4	21	1	.....	1	3396	5449	1	0.05	1.3
Umatilla	N. 45 55	W. 119 21	4.11 a.m.	340	103	29.70	754.4	30.07	763.8	41.3	5.2	72.6	.....	2	6	9	2	8	1	.....	2	7010	11281	5	0.76	19.3
Uvalde	N. 29 13	W. 99 40	5.29 a.m.	930	283	28.98	736.1	29.95	760.7	63.7	17.6	80.2	3	1	.....	.....	.....	1	14	2	4	5	4141	6664	8	0.33	8.4
Vicksburg	N. 32 23	W. 90 54	6.04 a.m.	244	74	29.77	756.1	30.03	762.7	61.9	16.6	78.7	3	1	2	2	3	12	.....	5	2	3173	5106	6	5.44	138.2
Visalia *d*	N. 36 20	W. 119 16	4.11 a.m.	348	106	29.65	753.1	30.02	762.5	47.2	8.4	77.5	1	14	.....	2	1	4	4	.....	.....	3369	5422	3	0.97	24.6
Washington, D. C.	N. 38 54	W. 77 02	7.00 a.m.	106	32	29.99	761.7	30.11	764.8	46.1	7.8	75.8	3	9	2	1	1	5	.....	5	4	4041	6503	6	2.55	64.8
W. Las Animas	N. 38 04	W. 103 07	5.16 a.m.	3905	1190	25.95	659.1	29.91	759.7	38.0	3.3	64.9	2	3	9	3	1	1	4	4	3	9344	15037	3	0.98	24.9
Wickenburg *e*	N. 33 58	W 112 42	4.37 a.m.	?	?	.....	.....	.....	.....	42.9	6.1	71.6	.....	3	1	.....	1	.....	.....	.....	22	.....	.....	1	0.04	1.0
Williamsport	N. 41 15	W. 77 03	7.00 a.m.	561	171	29.45	718.0	30.06	763.5	40.5	4.7	69.0	2	6	8	1	.....	4	1	4	4	4245	6832	7	2.24	56.9
Wilmington	N. 34 11	W. 78 10	6.56 a.m.	52	16	30.03	762.7	30.09	764.3	58.7	14.8	79.2	2	1	5	2	1	.....	3	7	9	5258	8462	6	2.27	57.7
Winnemucca	N. 41 00	W. 117 43	4.17 a.m.	4327	1319	25.57	649.5	29.97	761.2	34.7	1.5	73.3	4	1	.....	.....	15	2	1	5	1	7057	11357	4	0.85	21.6
Yankton	N. 42 45	W. 97 30	5.38 a.m.	1228	374	28.65	727.7	29.99	761.7	41.0	5.0	79.1	.....	8	2	1	3	4	7	4	1	9032	14535	6	2.93	74.4
Yuma	N. 32 44	W 114 36	4.30 a.m.	141	43	29.75	755.6	29.90	759.4	54.3	12.4	57.9	3	7	3	8	.....	2	1	3	3	4608	7416	1	0.0	0.0
Sub-Series.																												
Bogota	N. 4 36	W. 74 14	7.41 a.m.	8655	2638	22.04	559.8	.....	.....	54.5	12.5	83	2	2	5	6	2	2	3	.....	8	.....	.....	7	2.56	65.0
Bridgetown	N. 13 12	W. 59 35	8.10 a.m.	?	?	30.04	763.0	30.05	763.3	80.0	26.7	86.1	.....	.....	.....	.....	.....	2	.....	28	.....	.....	.....	10	2.56	65.0
Buenaventura	N. 3 50	W. 76 55	7.00 a.m.	18	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Guadeloupe	N. 16 12	W. 61 40	8.01 a.m.	?	?	29.94	760.5	29.96	761.0	77.4	25.2	84.7	.....	.....	.....	.....	.....	1	9	16	4	.....	.....	4	2.21	56.1
Havana	N. 23 09	W. 82 22	6.39 a.m.	50	15	30.02	762.5	30.06	763.5	77.5	25.3	81.2	1	.....	.....	.....	1	1	17	2	1	7	2020	3251	4	4.85	123.2
Kingston	N. 18 58	W. 76 48	7.01 a.m.	10	3	30.03	762.7	30.04	763.0	76.9	24.9	69.3*a*	10	.....	.....	.....	.....	3	.....	.....	17	3219	5180	1	0.15	3.8
Navassa	N. 18 25	W. 75 03	7.43 a.m.	77	23	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Paramaribo	N. 5 50	W. 55 13	8.27 a.m.	6	2	30.04	763.0	30.04	763.0	78.6	25.9	85.5	1	.....	.....	.....	.....	3	22	4	.....	.....	.....	9	10.36	263.1
Puerto Berrio	N. 6 32	W. 74 28	7.10 a.m.	542	165	29.49	749.0	29.95	760.7	79.7	26.5	84.6	6	1	.....	.....	2	.....	1	1	19	.....	.....	9	9.36	237.7
Rivas	N. 11 26	W. 85 47	6.25 a.m.	150	46	.....	.....	.....	.....	.....	.....	92.4	.....	1	.....	.....	.....	5	2	22	.....	.....	.....	3	.....	.....	.....	.....
Santiago deCuba	N. 19 55	W. 75 50	7.04 a.m.	21	6	30.01	762.2	30.04	763.0	77.1	25.1	74.4	10	.....	.....	.....	.....	.....	.....	20	.....	.....	.....	4	2.41	61.2
York Factory	N. 57 02	W. 92 26	5.58 a.m.	51	15	29.99	761.7	30.04	763.0	8.0	—13.3	87.6	5	3	1	3	3	6	5	4	.....	.....	.....	4	0.14	3.6

Ocean Square Data for April, 1882.

Location of Centre of each Square.		No. of days.	No. of ob's.	Barometer.		Temperature.		Wind Frequency.										Wind force 0–10.
				Inch.	Mill.	Fah.	Cent.	N.	NW.	W.	SW.	S.	SE.	E.	NE.	Calm.	Blank.	
°	°																	
N. 7.5	W. 27.5	12	15	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
7.5	32.5	4	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
12.5	22.5	2	2	30.04	763.0	77.8	25.4	.....	.....	.....	.....	.....	.....	.....	24	.....	6	2.1
12.5	27.5	8	8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
12.5	32.5	5	6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
12.5	37.5	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
17.5	22.5	.....	.....	30.10	764.5	75.3	24.1	.....	.....	.....	.....	.....	.....	.....	19	.....	11	2.2
17.5	27.5	5	6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
17.5	32.5	2	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
17.5	37.5	2	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
17.5	52.5	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
17.5	57.5	6	8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
22.5	22.5	6	6	30.16	766.1	73.1	22.8	.....	.....	.....	.....	.....	1	2	17	.....	10	1.7
22.5	27.5	3	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
22.5	32.5	3	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
22.5	37.5	5	8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
22.5	42.5	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
22.5	57.5	2	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
22.5	62.5	4	4	30.08	764.0	74.3	23.5	.....	.....	.....	1	2	4	9	7	.....	7	2.1
22.5	67.5	8	10	30.10	764.5	74.9	23.8	.....	.....	.....	2	3	5	10	5	.....	5	1.6
22.5	72.5	.....	.....	30.09	764.3	75.6	24.2	.....	.....	.....	3	2	5	10	7	.....	3	1.6
27.5	22.5	3	3	30.18	766.6	69.5	20.8	2	3	.....	.....	1	3	4	8	.....	9	1.7
27.5	27.5	6	7	30.17	766.3	70.0	21.1	.....	3	1	2	.....	5	2	3	1	13	1.4
27.5	32.5	2	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
27.5	37.5	2	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
27.5	42.5	3	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
27.5	62.5	4	5	30.08	764.0	70.5	21.4	2	5	1	6	.....	.....	2	5	.....	9	1.6
27.5	67.5	12	17	30.10	764.5	70.8	21.6	2	3	.....	4	6	.....	2	8	1	4	1.5
27.5	72.5	18	27	30.09	764.3	71.0	21.7	2	3	1	6	3	4	8	3	.....	.....	1.6
27.5	77.5	19	28	30.08	764.0	71.5	21.9	.....	1	.....	6	5	7	3	8	.....	.....	1.8
32.5	12.5	1	1	30.15	765.8	66.6	19.2	7	3	1	6	1	1	.....	11	.....	.....	1.2
32.5	17.5	4	4	30.19	766.8	66.7	19.3	1	.....	2	14	.....	7	.....	5	1	.....	1.0
32.5	22.5	2	2	30.19	766.8	64.4	18.0	1	4	.....	7	.....	4	2	6	.....	6	1.5
32.5	27.5	1	1	30.16	766.1	66.4	19.1	2	3	1	5	.....	6	3	2	.....	8	2.1
32.5	32.5	4	6	30.13	765.3	65.7	18.7	1	4	.....	7	1	3	1	1	.....	12	2.8
32.5	37.5	4	7	30.09	764.3	64.0	17.8	1	3	6	3	2	3	.....	2	.....	10	2.6
32.5	42.5	6	7	30.09	764.3	62.6	17.0	1	8	1	3	2	1	.....	1	.....	13	2.6
32.5	47.5	2	2	30.11	764.8	63.2	17.3	3	5	.....	2	6	.....	1	2	.....	11	2.6
32.5	52.5	3	4	30.07	763.8	64.3	17.9	3	4	.....	6	3	1	1	3	.....	9	2.2
32.5	57.5	2	2	30.07	763.8	65.6	18.7	2	4	2	9	.....	3	.....	3	.....	7	2.2
32.5	62.5	3	3	30.03	762.7	66.0	18.9	5	5	3	6	3	.....	1	7	.....	.....	1.9
32.5	67.5	4	4	30.05	763.3	64.9	18.3	1	11	1	7	2	.....	2	3	.....	3	2.0
32.5	72.5	20	30	30.08	764.0	65.0	18.3	4	7	.....	8	2	1	2	3	1	2	1.7
32.5	77.5	23	49	30.08	764.0	64.1	17.8	4	2	.....	6	2	4	4	8	.....	.....	1.9
37.5	12.5	6	6	30.09	764.3	62.2	16.8	4	15	3	5	1	1	.....	1	.....	.....	1.9
37.5	17.5	4	4	30.10	764.5	62.5	16.9	.....	15	3	8	.....	2	.....	2	.....	.....	1.6
37.5	22.5	1	1	30.12	765.0	62.5	16.9	.....	14	4	7	2	2	.....	1	.....	.....	2.4
37.5	27.5	.....	.....	30.13	765.3	62.0	16.7	4	7	5	6	4	4	.....	.....	.....	.....	2.1
37.5	32.5	.....	.....	30.05	763.3	60.5	15.8	.....	8	2	15	2	1	.....	.....	.....	2	2.8
37.5	37.5	3	3	30.06	763.5	58.3	14.6	.....	11	5	11	1	.....	.....	1	.....	1	3.0
37.5	42.5	6	6	30.01	762.2	55.8	13.2	2	10	2	9	3	.....	1	1	.....	2	3.3
37.5	47.5	11	11	30.04	763.0	53.9	12.2	4	11	1	5	3	2	.....	3	.....	1	3.6
37.5	52.5	22	34	30.02	762.5	53.5	11.9	3	10	.....	10	3	3	.....	1	.....	.....	3.7
37.5	57.5	18	30	30.00	762.0	53.9	12.2	4	9	3	5	4	2	.....	3	.....	.....	3.7
37.5	62.5	16	26	29.98	761.5	53.4	11.9	4	13	2	5	3	1	.....	2	.....	.....	3.5
37.5	67.5	21	40	30.00	762.0	51.1	10.6	3	15	2	3	2	2	.....	3	.....	.....	3.3
37.5	72.5	29	81	30.05	763.3	48.3	9.1	6	10	.....	2	1	5	1	5	.....	.....	2.2
42.5	12.5	16	17	29.97	761.2	59.2	15.1	1	9	6	9	.....	1	.....	4	.....	.....	2.6
42.5	17.5	1	1	29.99	761.7	57.3	14.1	1	14	5	5	1	2	1	1	.....	.....	2.9
42.5	22.5	1	1	30.02	762.5	59.1	15.1	.....	11	5	9	.....	3	.....	2	.....	.....	3.1
42.5	27.5	5	5	30.02	762.5	58.3	14.6	2	9	2	11	4	2	.....	.....	.....	.....	3.4
42.5	32.5	11	14	29.98	761.5	57.3	14.1	2	8	2	16	2	.....	.....	.....	.....	.....	3.6
42.5	37.5	25	62	29.93	760.2	55.1	13.4	2	12	3	10	2	.....	1	.....	.....	.....	3.7
42.5	42.5	28	81	29.94	760.5	51.6	10.9	3	10	2	10	2	1	1	1	.....	.....	4.0
42.5	47.5	28	112	29.98	761.5	45.4	7.4	3	14	1	4	5	1	1	1	.....	.....	4.1
42.5	52.5	29	105	29.97	761.2	44.3	6.8	5	11	2	4	5	2	1	.....	.....	.....	3.5
42.5	57.5	27	83	29.95	760.7	43.9	6.6	3	13	1	4	3	4	.....	2	.....	.....	3.5
42.5	62.5	25	95	29.99	761.0	42.6	5.9	5	11	.....	3	5	2	2	2	.....	.....	3.2
42.5	67.5	28	73	29.99	761.7	40.6	4.8	6	7	4	4	.....	2	2	5	.....	.....	2.6
47.5	12.5	30	68	29.78	756.4	54.0	12.2	2	6	4	6	5	2	2	3	.....	.....	3.9
47.5	17.5	27	65	29.80	756.9	53.1	11.7	4	7	6	4	3	4	2	.....	.....	.....	3.9
47.5	22.5	28	73	29.81	757.2	52.6	11.4	3	7	5	6	8	1	.....	.....	.....	.....	4.0
47.5	27.5	30	87	29.80	756.9	52.5	11.4	4	8	3	7	6	1	1	.....	.....	.....	4.3
47.5	32.5	27	88	29.77	756.1	50.9	10.5	3	7	3	8	4	4	1	.....	.....	.....	4.1
47.5	37.5	26	68	29.76	755.9	48.5	9.2	3	8	4	7	3	5	.....	.....	.....	.....	3.9
47.5	42.5	20	37	29.78	756.4	43.4	6.3	3	13	2	5	1	3	.....	2	.....	1	3.5
47.5	47.5	4	4	29.80	756.9	36.6	2.6	3	12	1	4	3	3	1	1	.....	2	3.1
52.5	12.5	19	36	29.73	755.1	51.4	10.8	3	6	1	3	6	5	2	4	.....	.....	3.8
52.5	17.5	16	31	29.75	755.6	50.5	10.3	5	9	.....	4	4	4	2	2	.....	.....	3.9
52.5	22.5	17	29	29.75	755.6	49.4	9.7	1	9	2	5	4	5	.....	4	.....	.....	3.8
52.5	27.5	16	21	29.74	755.4	48.3	9.1	3	8	2	5	2	5	2	3	.....	.....	4.1
52.5	32.5	11	15	29.72	754.9	46.7	8.2	1	6	1	5	2	6	.....	4	.....	5	4.0
52.5	37.5	3	3	29.78	756.4	43.1	6.2	3	6	.....	3	.....	3	2	3	.....	10	3.5
57.5	12.5	3	3	29.78	756.4	43.9	6.6	4	1	.....	2	3	9	1	10	.....	.....	3.3
57.5	17.5	4	4	29.80	756.9	42.6	5.9	4	1	.....	2	3	5	4	11	.....	.....	3.0
57.5	22.5	3	4	29.80	756.9	40.6	4.8	2	1	.....	1	3	6	4	13	.....	.....	2.9
57.5	27.5	1	1	29.82	757.4	39.2	4.0	4	2	.....	.....	3	3	4	10	.....	4	2.7
57.5	32.5	.....	.....	29.84	757.9	37.9	3.3	1	2	.....	3	.....	1	3	7	.....	12	2.8

NOTE.—See General Remarks.

REVIEW.

INTERNATIONAL METEOROLOGY.

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

Beginning with the issue of the BULLETIN OF INTERNATIONAL METEOROLOGY for month of April, 1882, the following changes, relating to the charts issued with this publication, have been made, viz.:

The chart showing the pressure and temperature for each day over the northern hemisphere, as charted from observations taken simultaneously at 7 a. m., Washington mean time, will hereafter be published as chart i.

The chart showing the monthly mean pressure, mean temperature, and the prevailing wind-direction (chart iv.) will hereafter be referred to as chart ii., and will continue the series of international charts begun in January, 1877.

Chart v., showing the storm-tracks over the northern hemisphere, will hereafter be designated as chart iii. This chart continues the series of international charts begun in November, 1877. It will be noticed that these changes affect only the numerical value and not the character of the charts, the change having been made in order to secure uniformity.

With this REVIEW is issued chart iii., showing the international storm-tracks for the month of May, 1881. (See General Remarks.)

The following descriptions relate to chart iv. for the months of April and May, 1881 (which charts were issued with the SUMMARY for the respective months). In these descriptions much valuable information has been obtained from the "Monatliche Uebersicht der Witterung," published by Professor Dr. G. Neumayer, Director of the German Marine Observatory, Hamburg, Germany, and from the "Bulletin Mensuel," published by Mr. Marc Dechevrens, of Zi-Ka-Wei, China:

For the month of April, 1881, the most marked area of mean low-pressure is indicated by the isobar of 29.7 (754.4), and occupies that part of the northern hemisphere lying between 40° and 70° west longitude, and between 40° and 60° north latitude. The countries within this region are eastern Canada, including the Maritime Provinces, Newfoundland, and the extreme southern part of Greenland. An area of low mean pressures, 29.7 (754.4), is also shown over the extreme northern part of the Scandinavian peninsula. In Asia the isobar of 29.7 (754.4) occupies the central and eastern provinces of British India, lying north of the twentieth parallel of latitude; within this area the mean pressure ranged from 29.64 (752.8), at Patna, to 29.68 (753.9) at Lahore, Nagpur, and Calcutta. South of the fortieth parallel the pressure gradually increases until the isobar of 30.0 (762.0), which extends from the North American continent eastward to northern Africa, is reached.

The areas of barometric maxima are indicated by the isobarometric lines of 30.1 (764.5) and 30.0 (762.0). The first of these extends over Oregon and Washington and Idaho territories; the second, 30.0 (762.0), covers the northern part of the British Isles and extends eastward over Denmark, northern Germany, and central Russia to about 47° east longitude. The barometric gradients were of moderate inclination in both the eastern and western hemispheres.

Compared with the preceding month (March, 1881,) there has been a general increase of pressure over the North American continent, except in the Canadian Maritime Provinces, eastern Quebec, and Newfoundland. In Europe the mean atmospheric pressure has decreased over the countries lying south of the fiftieth parallel, while the contrary is exhibited over the countries situated to the north of that parallel, the greatest increase, about .22 inch, appearing over the Danish and Scandinavian peninsulas. In Asia the pressure has decreased throughout the continent, the most noteworthy and important change occurring in Siberia, where the mean pressure averages .4 inch below that of the preceding month. In British India the decrease averages .15 inch, and in China and Japan it is about .2 inch.

Compared with the corresponding month of previous years the mean atmospheric pressure is above the normal over that part of the United States lying between the eighty-fifth meridian and the Rocky mountains. From that meridian eastward to the Atlantic the mean pressure is generally below the normal, the greatest departures occurring near the coast and in Maine. On the Pacific coast the pressure is below the normal. In Canada it was below the normal, except in western Ontario, where it was about normal.

The following table shows the mean pressure and the mean temperature, with corresponding departures, for the month of April, 1881, in the several countries of the eastern hemisphere, compared with the means as determined from observations taken during the years 1877, 1878, 1879, and 1880:

Countries.	Mean pressure.			Mean temperature.		
	Apr., 1877, 1878, 1879, 1880.	April, 1881.	Departure.	Apr., 1877, 1878, 1879, 1880.	April, 1881.	Departure.
				°	°	°
Algeria	29.97	29.98	+0.01	66.8	69.3	+2.5
Austria	29.79	29.91	+0.12	57.6	51.5	−6.1
British Isles	29.80	29.95	+0.15	49.5	49.9	+0.4
Denmark	29.85	30.02	+0.17	45.8	42.8	−3.0
France	29.80	29.88	+0.08	57.0	56.4	−0.6
Germany	29.84	29.97	+0.13	51.0	48.7	−2.3
India *	29.74	29.71	−0.03	89.5	90.1	+0.6
Italy	29.83	29.87	+0.04	61.9	61.5	−0.4
Norway	29.90	29.95	+0.05	44.9	39.0	−5.9
Portugal	29.99	29.90	−0.09	60.1	61.4	+1.3
Russia	29.91	29.98	+0.07	47.0	46.4	−0.6
Spain	29.90	29.89	−0.01	61.4	60.7	−0.7
Sweden	29.90	29.93	+0.03	39.5	36.9	−2.6

* Means for three years only.

The accompanying table shows the deviations in pressure and temperature at isolated stations during the month of April, 1881, as compared with the means of four years:

Stations.	Mean pressure.			Mean temperature.		
	Apr., 1877, '78, '79, '80.	Apr., 1881.	Departure.	Apr., 1877, '78, '79, '80.	Apr., 1881.	Departure.
				°	°	°
San José, Costa Rica, C. A.				68.6	65.7	− 2.9
Gibraltar	30.00	29.97	−0.03	65.9	65.3	− 0.6
Malta, Mediterranean Sea	29 88	29.88	normal.	62.2	68.2	+ 6.0
Sandwick Manse, Orkney Islands*	29.85	30.03	+0.18	45.1	43.1	− 2.0
Bridgetown, Barbadoes	30.02	30.00	−0.02	82.6	83.4	+ 0.8
Cape Town, Cape Good Hope	30.06	30.11	+0.05	72.2	70.7	− 1.5
Fort Napier, Natal, South Africa*	29.94	29.93	−0.01	76.0	72.2	− 3.8
Free Town, Sierra Leone	29.91	29.83	−0.08	87.5	87.5	normal
Mauritius, Indian Ocean	30.00	29.98	−0.02	79.0	79.7	+ 0.7
Melbourne, New South Wales	30.14	30.18	+0.04	58.3	57.0	− 1.3
Nassau, Bahamas	30.06	30.08	+0.02	76.2	75.3	− 0.9
Godthaab, Greenland	29.82	29.73	−0.09	28.5	33.8	+ 5.3
Stykkisholm, Iceland	29.81	29.89	+0.08	34.0	38.3	+ 4.3
Thorshavn, Färöe Islands	29.87	30.02	+0.15	43.7	42.3	− 1.4
Zi-Ka-Wei, China	30.07	29.99	−0.08	54.4	55.2	+ 0.8
Athens, Greece	29.88	29.93	+0.05	67.8	68.0	+ 0.2
Cagliari, Sardinia, Italy	29.83	29.87	+0.04	63.6	66.6	+ 3.0
Tokei, Japan	30.07	30.02	−0.05	52.8	51.1	− 1.7
Angra, Azores	30.06	30.02	−0.04	61.3	59.0	− 2.3
Funchal, Madeira Islands	30.14	30.02	−0.12	65.1	64.9	− 0.2
Ponta Delgado, Azores	30.08	30.04	−0.04	63.6	61.7	− 1.9
Archangel, Russia	29.92	29.81	−0.11	33.1	30.2	− 2.9
Tiflis, Russia	29.90	29.84	−0.06	63.7	62.7	− 1.0
Astrakhan, Russia	29.99	29.89	−0.10	56.5	60.3	+ 3.8
Ekaterinburg, Russia	29.95	29.93	−0.02	40.6	49.1	+ 8.5
Nukuss, Toorkistan, Asia						
Tashkend, Toorkistan, Asia	30.04	29.80	−0.24	65.2	70.2	+ 5.0
Barnaul, Siberia, Asia	30.09	29.99	−0.10	35.6	48.0	+12.4
Yeniseisk, Siberia, Asia	30.00	30.09	+0.09	31.2	35.8	+ 4.6
Pekin, China	30.02	29.94	−0.08	56.5	55.9	− 0.6
Nikolaevsk on the Amoor, Asia				21.3	26.1	+ 4.8
San Juan de Puerto Rico, W. I.	30.03	30.07	+0.04	77.3	78.6	+ 1.3
Beirut, Turkey in Asia	29.92	29.90	−0.02	70.4	70.5	+ 0.1
Mexico, Mexico*						
Havana, Cuba, W. I*	30.02	30.08	+0.06	75.7	74.1	− 1.6
Paramaribo, D. Guiana, S. A.	30.00	30.01	+0.01	81.2	79.1	− 2.1
York Factory, B. A	30.10	30.04	−0.06	12.8	5.6	− 7.2

* Means for three years only.

In the United States the mean temperature of the air was below the normal throughout the country east of the hundredth meridian, except in Arkansas, Louisiana, and eastern Texas, where it was normal. West of the hundredth meridian the temperature ranged from 1° to 5° above the normal. In Canada it was slightly below the normal. In Europe the mean temperature for the month was below the normal. During the first and last decades of the month the temperature was daily below the normal, and damaging frosts occurred in many sec-

tions. In the second decade (8th–18th) a constant rise of temperature took place, and the maximum temperatures of the mouth occurred during that period. In Siberia the mean temperature was above the normal. In British India the highest mean temperature reported was 100°.7 Fahr. (38°.2 Cent.) at Nagpur, and the lowest was 73°.7 Fahr. (23°.2 Cent.) at Sibsagar.

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

Highest.	Fahr.	Cent.	Lowest.	Fahr.	Cent.
	°	°		°	°
Freetown, Africa	87.5	30.8	York Factory, B. A	5.6	—14.7
Manila, Philippine Islands	84.6	29.2	Nikolaevsk on the Amoor	26.1	— 3.3
Bridgetown, Barbadoes	83.4	28.6	Archangel, Russia	30.2	— 1.0
Mauritius, Indian ocean	79.7	26.5	Jacobshavn, Greenland	31.1	— 0.5

In the United States the prevailing wind-directions were westerly, northwesterly, and northerly over the country north of the thirty-fourth parallel, and eastward from the Rocky mountains to the Atlantic. On the south Atlantic coast the winds were southwesterly; in Texas they were southerly and southeasterly. On the Pacific coast they were northwesterly, except in the northern district, where southerly winds prevailed. In Canada the winds were westerly and northwesterly. Over the north Atlantic ocean the wind-directions were as follows: Northwesterly from the coasts of the United States eastward to W. 60°; north of the thirtieth parallel and from W. 60° to W. 20°, generally westerly and southwesterly; off the coast of the British Isles, and over the Bay of Biscay, northeasterly. In Europe the winds were mostly easterly and northeasterly, except in the Scandinavian peninsula and in Spain and Portugal, where southerly and southwesterly winds prevailed.

The rainfall (including melted snow), during the month of April, 1881, was very much below the average in all districts of the United States, except in Florida and in the north Pacific coast region, where the precipitation was about the average. In Canada the rainfall was also much below the average. In Europe the rainfall was much below the average in the northern districts of central Europe, but in the countries to the south of the forty-seventh parallel the rainfall was above the average, the excess being greatest in Austro-Hungary and in Spain.

For the month of May, 1881, the distribution of mean atmospheric pressure over the northern hemisphere is as follows:

The area of absolute minima occupies British India north of the twentieth parallel, where the mean pressure ranges from 29.54 (750.3) to 29.6 (751.8). Over southern China and British India, except the region above-mentioned, the pressure ranges from 29.64 (752.8) to 29.88 (758.9). In Greenland the pressure ranges from 29.73 (755.1) at Godthaab to 29.82 (757.4) at Jacobshavn. Over the North American continent, Europe, and northern Asia the mean atmospheric pressure is not less than 29.8 (756.9), except at Nikolaevsk on the Amoor, Asia, where it is 29.76 (755.9).

From Greenland south-southeastward to the Azores the barometric gradient steadily increases until the area of barometric maxima is reached. This area, indicated by the isobarometric line of 30.2 (767.1), occupies the Atlantic ocean between N. 30° and 40° and W. 20° and 40°, including within its limits the Western Islands.

Compared with the chart for the preceding month (April, 1881,) there has been a slight decrease of pressure over the western part of the United States; there has also been a uniform decrease over Asia. In the eastern part of the United States, Canada, the Atlantic ocean, and the whole of Europe there has been a more or less marked increase of pressure. The increase is greatest over eastern Canada and the Maritime Provinces, the Azores and the Iberian peninsula, and is least over the Russian Empire and the Scandinavian peninsula. The increase of pressure averages about .4 inch over the Canadian Maritime Provinces; over the Azores it is about .2 inch.

Compared with the corresponding month of previous years the mean atmospheric pressure in the United States is above the normal, except in Texas, Florida, and in the Pacific coast regions. It is also above the normal in Canada, the excess being greatest over the Maritime Provinces. In Europe the pressure is much above the normal. In this connection may be mentioned the unusually high pressures that prevailed over the British Isles and western Europe from the 7th to the 12th. During that period the pressure ranged from 30.3 (769.6) to 30.7 (779.8). On the 9th–10th the pressure at stations in Scotland and in northern England was 30.77 (781.5), and was maintained throughout the twenty-four hours.

The following table shows the mean pressure and the mean temperature, with corresponding departures, for the month of May, 1881, in the several countries, compared with the means as determined from observations taken during the years 1877, 1878, 1879, and 1880:

Countries.	Mean pressure.			Mean temperature.		
	May, 1877, 1878, 1879, 1880.	May, 1881.	Departure.	May, 1877, 1878, 1879, 1880.	May, 1881.	Departure.
				°	°	°
Algeria	30.02	30.06	+0.04	72.7	69.7	—3.0
Austria	29.87	29.97	+0.10	62.5	64.6	+2.1
British Isles	29.96	30.07	+0.11	54.4	58.5	+4.1
Denmark	29.90	30.06	+0.16	52.5	53.8	+1.3
France	29.92	30.10	+0.18	61.9	63.8	+1.9
Germany	29.93	30.08	+0.15	58.8	60.7	+1.9
India*	29.63	29.63	normal	90.6	93.0	+2.4
Italy	29.91	29.98	+0.07	67.4	67.3	—0.1
Norway	29.84	29.98	+0.14	52.2	49.5	—2.7
Portugal	30.00	30.06	+0.06	67.7	69.0	+1.3
Russia	29.88	29.99	+0.11	61.5	61.7	+0.2
Spain	29.96	30.06	+0.10	68.2	70.0	+1.8
Sweden	29.87	30.01	+0.14	50.0	48.6	—1.4

* Means for three years only.

The accompanying table shows the deviations in pressure and temperature at isolated stations during May, 1881, as compared with the means of four years:

Stations.	Mean pressure.			Mean temperature.		
	May, 1877, '78, '79, '80.	May, 1881.	Departure.	May, 1877, '78, '79, '80.	May, 1881.	Departure.
				°	°	°
San José, Costa Rica, C. A.				70.0	67.5	— 2.5
Gibraltar	30.02	30.06	+ 0.04	69.3	70.2	+ 0.9
Malta, Mediterranean Sea	29.92	29.98	+ 0.06	69.1	68.2	— 0.9
Sandwick Manse, Orkney Islands	29.89	30.02	+ 0.13	48.6	50.7	+ 2.1
Bridgetown, Barbadoes	30.01	29.94	— 0.07	82.6	84.8	+ 2.2
Cape Town, Cape Good Hope	30.07	30.00	— 0.07	66.2	63.1	— 3.1
Fort Napier, Natal, South Africa	29.98	29.82	— 0.16	72.0	71.1	— 0.9
Free Town, Sierra Leone	29.95	29.83	— 0.12	85.9	88.0	+ 2.1
Mauritius, Indian Ocean	30.07	30.07	normal	74.9	76.5	+ 1.8
Melbourne, New South Wales	30.03	30.08	+ 0.05	53.4	55.6	+ 2.2
Nassau, Bahamas	30.02	29.98	— 0.04	76.5	78.6	+ 2.1
Godthaab, Greenland	29.87	29.73	— 0.14	34.7	36.7	+ 2.0
Stykkisholm, Iceland	29.88	29.86	— 0.02	42.0	43.5	+ 1.5
Thorshavn, Färöe Islands	29.87	30.01	+ 0.14	45.9	47.3	+ 1.4
Zi-Ka-Wei, China	29.89	29.97	+ 0.08	63.5	61.5	— 2.0
Athens, Greece	29.93	29.95	+ 0.02	74.2	72.0	— 2.2
Cagliari, Sardinia, Italy	29.90	29.97	+ 0.07	69.4	68.5	— 0.9
Tokei, Japan	29.93	29.98	+ 0.05	61.0	61.0	— 0.6
Angra, Azores	30.14	30.25	+ 0.11	63.2	61.9	— 1.3
Funchal, Madeira Islands	30.10	30.13	+ 0.03	68.2	68.4	+ 0.2
Ponta Delgado, Azores	30.15	30.27	+ 0.12	65.4	65.1	— 0.3
Archangel, Russia	29.87	29.95	+ 0.08	47.5	41.9	— 5.6
Tiflis, Russia	29.87	29.89	+ 0.02	71.4	70.3	— 1.1
Astrakhan, Russia	29.90	29.90	normal	72.6	71.4	— 1.2
Ekaterinburg, Russia	29.86	29.93	+ 0.07	57.2	61.3	+ 4.1
Tashkend, Toorkistan, Asia	29.86	29.86	normal	78.4	77.9	— 0.5
Barnaul, Siberia, Asia	29.90	29.96	+ 0.06	57.8	59.0	+ 1.2
Pekin, China	29.83	29.87	+ 0.04	67.1	70.5	+ 3.4
Nikolaevsk on the Amoor, Asia				35.2	37.2	+ 2.0
Yeniseisk, Siberia, Asia	29.92	29.98	+ 0.06	48.2	43.0	— 5.2
San Juan de Puerto Rico, W. I.*	30.01	29.98	— 0.03	80.3	79.2	— 1.1
Beirut, Turkey in Asia	29.93	29.92	— 0.01	76.2	75.6	— 0.6
Havana, Cuba, W. I*	30.01	30.00	— 0.01	78.3	78.0	— 0.3
Paramaribo, D. Guiana, S. A.	30.04	30.00	— 0.04	81.3	79.4	— 1.9
York Factory, B. A*	30.01	30.08	+ 0.07	27.7	28.3	+ 0.6

* Means for three years only.

In May, 1881, the mean temperature of the air in the United States was above the normal, except in Texas, New Mexico, and the Florida peninsula, where it ranged from 0°.5 below to normal. In Canada the mean temperature was above the normal in the western part of the dominion, but in the Mari-

time Provinces and eastern Quebec it was slightly below the normal. In Europe the temperature was slightly above the normal. During the prevalence of high pressures, from the 7th to the 12th, the minimum temperatures of the month occurred, and heavy and damaging frosts prevailed in nearly all parts of central Europe and in the British Isles. In British India the highest mean temperature, 104°.9 Fahr. (40°.5 Cent.), was reported at Deesa, and the lowest, 81°.5 Fahr. (27°.5 Cent.), at Dhubri and at Sibsagar.

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

Highest.	Fahr.	Cent.	Lowest.	Fahr.	Cent.
	°	°		°	°
Freetown, Africa	88.0	31.1	Fort St. Michael, Alaska	27.3	— 2.6
Kingston, Jamaica	86.3	30.2	York Factory, B. A	28.3	— 2.1
Manila, Philippine Islands	85.5	29.7	Gjaesvaer, Finmark, Nor'y	31.6	— 0.2
Bridgetown, Barbadoes	84.8	29.3	Jacobshavn, Greenland	36.3	2.4

In the United States the prevailing winds were as follows: From the eightieth meridian eastward to the Atlantic coast, generally northeasterly, except on the middle Atlantic coast, where they were southeasterly; from the eightieth meridian westward to the Rocky mountains, southerly and southeasterly; on the Pacific coast, westerly to northerly; over the Atlantic ocean north of 30° north latitude, and from the coast of the United States eastward to 60° west longitude, the prevailing winds were northeasterly; between N. 30° and 40° and W. 60° and 50° they were mostly southeasterly; from the fiftieth meridian eastward to the European coasts they were generally southwesterly; south of N. 30° they were northeasterly. In central Europe the winds were generally from northeast to northwest; in the British Isles, and also at stations on the coast of France, the prevailing direction was southwesterly; in Scandinavia it was southerly and southwesterly. The winds were easterly and southeasterly on the coast of China, and southerly and southwesterly in Japan.

In the United States the rainfall was generally below the average, except in the New England states, Louisiana, Texas, and Arkansas. It was also slightly above the average in Minnesota, Dakota, Kansas, Nebraska, Iowa, and Missouri. In Europe the rainfall was generally below the average, except in the southern part of Germany, and in Austria, where it was above the average.

Chart iii. (formerly chart v.) exhibits the tracks of barometric minima for the month of May, 1881, which have been traced from the daily international charts.

The data are charted for each day of the month on the maps accompanying each issue of the INTERNATIONAL BULLETIN, and from these charts and from additional reports are traced the movements of the centres of barometric minima.

Twenty-three of the more important atmospheric depressions that have appeared in the northern hemisphere have thus been traced. None of these exhibited any unusual development of storm-energy, nor have any of them been traced farther eastward over the Atlantic than the fiftieth meridian. The general distribution of these depressions was as follows:

Six appeared in the United States and Canada; only one of these, number v., appeared on the Pacific coast; of the remainder, numbers iv. and vi. are interesting because of the abnormal paths of their centres. Nine depressions are shown over Europe; all of these apparently developed near the coasts, with the exception of number xi, which first appeared in Greenland. Four depressions moved in an east-northeasterly direction south of the fiftieth parallel, while the remaining five pursued northeasterly paths over the northern part of the continent. One disturbance, number vii., developed and dissipated in the Atlantic ocean between the meridians of fifty-five and forty west longitude, and one, number xvi., remained in Greenland at the close of the month. Six depressions are traced in Asia; of these three prevailed over Siberia and three are shown in China and Japan.

On this chart is also shown the track of the first typhoon of the season of 1881 (May 22d, 28th) that occurred in the China sea.

The following are brief descriptions of the depressions that appeared in the United States and Canada:

I.—This disturbance appeared near Lake Superior on the 1st; it moved eastward, causing showery weather in the lake region and in the Saint Lawrence valley. It passed toward the Gulf during the 2d and 3d, and disappeared south of Greenland on the last-mentioned date. In connection with this disturbance rain fell in the Maritime Provinces and in New England during the 2d, attended by moderate southerly breezes. The depression was immediately followed by an area of high pressures, which caused strong northwesterly winds in the lake region and in New England and the Maritime Provinces.

II.—From the 5th to the 7th there was a slow but gradual decrease of pressure in Minnesota and Dakota. On the latter date the centre of disturbance became defined, and was indicated by the isobar of 29.6 (751.8), which covered Minnesota. During the period from the 7th to the 11th there was a slight increase of pressure, but the disturbance still remained near the lake region and the northwest, attended by cloudy weather and light rains in those districts. On the 12th the depression moved over the Saint Lawrence, attended by light local rains and constantly increasing pressure. During the day its course apparently changed to the southeastward, and the depression passed off the New England coast into the Atlantic. On the 13th the storm-centre was situated near N. 36°, W. 64°. Vessels near the fortieth parallel reported moderate east and northeast winds, while westerly winds prevailed at Bermuda. On the 14th the disturbance was central near N. 40°, W. 60°, where it gradually filled up, and by the 15th it had ceased to exist as a depression.

III.—This disturbance developed in the extreme northwest during the 13th; it moved southeastward, and on the 14th was central near Saint Paul, Minnesota, where the barometer read 29.72 (754.9), wind sw. By the morning of the 15th the centre was in Ontario, attended by light rains and southerly winds in the eastern part of the lake region, the middle Atlantic and New England states, while clearing weather and northwesterly winds had set in over the western part of the lake region. During the 15th the low area apparently moved southeastward, and by the morning of the 16th it was off the coast of Virginia, the pressure near the centre having decreased to 29.6 (751.8). Moderate to strong southerly winds were reported by vessels to the east of the centre, and fresh to strong northeasterly winds occurred over the Maritime Provinces and along the Atlantic coast. On the 17th the pressure began to increase and the disturbance gradually disappeared.

IV.—This was a secondary development of the low area just described. On the 18th an area of high pressures extended from the Canadian Maritime Provinces southeastward to the thirtieth parallel of latitude, while the pressure remained comparatively low off the coast of the Carolinas. In consequence of this distribution of pressure strong southerly breezes to moderate gales were encountered by vessels between 60° and 70° west longitude. On the 19th the region of least pressure was transferred to the southern part of Pennsylvania, and was attended by cloudy weather and occasional rains. During the day the disturbance moved north-northwestward, and on the 20th it was central in Ontario, where it finally disappeared. During the 19th the pressure increased over eastern Canada, causing moderate northeasterly gales along the Saint Lawrence.

V.—This was a slight depression which appeared in southern California on the 21st; it exhibited no energy, and finally filled up in Utah on the 22d.

VI.—This depression appeared in Minnesota on the 28th, on which date the atmospheric pressure decreased over the interior of the country from Minnesota to Texas, accompanied by light rain in Dakota, Kansas, and Missouri, and heavy rains in Texas. On the morning of the 29th the disturbance was shown in northern Kansas, whence it moved slowly southward to Texas, where it was central on the 30th and 31st. On the

latter date the pressure began to increase and the disturbance gradually dissipated.

The following descriptions refer to the depressions that appeared over the Atlantic and in Europe:

VII.—This depression appeared near N. 43°, W. 54°, on the morning of the 8th, causing moderate northerly gales in the western quadrants, and moderate to strong southerly gales in the eastern quadrants. The s. s. "Scythia," in N. 42° 41′, W. 52° 23′, reported barometer 29.35 (745.5), wind wsw., force 5, and the s. s. "Republic," in N. 42° 00′, W. 53° 51′, barometer 29.52 (749-8), wind s., force 2. On the 9th the disturbance was central near N. 45°, W. 47°, the pressure having increased slightly at the centre, but no diminution of wind-force occurred, owing to the formation of steep barometric gradients on the eastern and western sides of the depression. On the morning of the 10th the depression filled up and was followed by clearing weather. From the 10th to the 13th an extensive area of barometric maxima occupied the Atlantic from the coast of the United States to Europe, the highest readings being in the British Isles. During this period moderate winds and generally fair weather prevailed over the ocean.

VIII.—This was probably a continuation of the disturbance described as low-area xix. of the April chart. On the 1st an elongated area of low pressures stretched from the British Isles eastward to the Danish peninsula; light rains occurred in Scotland and at stations in Denmark, and the winds remained moderate in all quadrants of the depression. On the 2d the centre of disturbance was over the southwestern part of the Baltic, while another depression had developed in northwestern France; rain becoming general at stations within the zone of low pressures, but no high winds occurred. On the 3d the centre of disturbance remained over the Baltic; the region of low pressures now embraced northern France, Belgium, and Germany, the disturbance mentioned as appearing in France having apparently merged in the larger depression. On the 3d an area of high pressures began to spread over the British Isles and western France, causing the winds to shift to northerly and the temperature to fall several degrees over these districts. On the morning of the 4th the depression occupied the Gulf of Finland, attended by cloudy weather in northwestern Russia; during the day it moved northeastward, and on the 5th was near Archangel, whence it disappeared in the Arctic regions.

IX.—This was probably a secondary development of low-area viii. It appeared near the northern shores of the Bay of Biscay on the 2d, and moved eastward, causing rains and thunder-storms at numerous places in France. On the 3d, it apparently again united with low-area viii.

X.—This disturbance appeared in the region between the Black and the Caspian seas on the 1st, and was probably a continuation of the depression charted as xviii. on the chart for April. On the 2d the depression was over the Caspian sea, and on the following day it dissipated near the Sea of Aral.

XI.—This depression developed in Greenland on the 2d, when the barometer at Godthaab read 29.43 (747.5), being a fall of .42 inch in twenty-four hours. On the 3d and 4th the storm-centre moved slowly eastward, causing cloudy weather and strong southeasterly wind at Stykkisholm, Iceland. On the 5th the depression was central south of Iceland, and a decrease of pressure had set in over the northern part of the British Isles and the Scandinavian peninsula. On the 6th the centre was near the Färöe Islands; rain fell in the British Isles, and the wind veered to southwest and west and increased to moderate gales. On the 7th the centre of disturbance was transferred to Finland, while a rapid increase of pressure took place in its rear, and strong westerly winds occurred over the British Isles and southern Scandinavia, accompanied by generally clearing weather. On the 8th the storm-centre was over the White sea; it moved eastward, and on the 9th was in the vicinity of the Ural mountains, whence it moved into Siberia and beyond the stations of observation.

XII.—On the 9th pressures ranging from 30.4 (772.1) to 30.7 (779.8) occupied northwestern Europe and the British Isles, while in southern Europe the barometer was relatively low. In consequence of this distribution of pressure, strong northerly and northeasterly winds prevailed over the northwestern part of the continent, and a considerable fall in temperature took place. On the morning of the 10th a depression was over the southern part of Italy, attended by strong breezes and occasional rains in the northern quadrants. On the 11th the disturbance passed into Austro-Hungary, and during the 12th, 13th, and 14th it remained over Hungary and the Danubian Principalities, the barometer near the centre fluctuating between 29.6 (751.8) and 29.8 (756.9). By the 15th the depression had moved to the Black sea, and moving eastward during the day it finally disappeared in the Caucasus on the 16th.

XIII.—This depression appeared near the Färöe Islands on the 13th, and caused moderate southwesterly breezes over the northern part of the British Isles. By the morning of the 14th the centre had passed to the northern part of the Scandinavian peninsula, causing fresh to strong southwesterly winds in the Gulf of Bothnia and in northwestern Russia. On the 15th the depression was near Archangel, where it disappeared during the day.

XIV.—This disturbance apparently developed on the 14th in mid-ocean near N. 51°, W. 27°; on that day the s. s. "Pennsylvania," in N. 48° 36′, W. 25° 22′, reported barometer 29.86 (758.4), wind w., force 5, cloudy, while the s. s. "Volmer," in N. 50° 25′, W. 27° 44′, had a heavy nw. gale. During the day the disturbance moved eastward with rapidly decreasing pressure, and on the 15th it was shown as a deep depression of some energy, central in Ireland. Rain fell at stations in the British Isles, and the winds, increasing in force, blew with the force of a gale in the western part of Ireland. By the 16th the disturbance had moved northeastward over the North sea, and was central to the west of the Danish peninsula; rain was general over the British Isles and at stations along the coast of France near the Channel, while strong northerly and northwesterly winds prevailed in the western, and equally strong southerly and southeasterly winds prevailed in the eastern quadrants of the depression. On the 17th the storm-centre, having moved northward, was shown near the northern part of the Scandinavian peninsula. On the 18th it was to the northward of the Gulf of Bothnia, where it apparently dissipated.

XV.—This disturbance appeared northwest of Ireland on the 17th, causing rain and brisk south and southwest winds in the British Isles. During the 18th and 19th no change occurred in the distribution of pressure; the low area maintained its position over the northern part of Scotland, and rainy weather continued in the British Isles and at stations on the eastern shores of the North sea. By the morning of the 20th there was a general increase of pressure, although the lowest barometric readings were still in northern Scotland; a general improvement in the weather set in over the British Isles, but the rain still continued in France. On the 21st the depression apparently filled up off the southern coast of Norway.

XVI.—From the 21st to the 30th the barometer remained low and unsteady in the southern part of Greenland, but at the close of the month a recovery began, and the depression was apparently filling up without having moved beyond the coasts.

XVII.—This depression apparently developed between the Azores and the Iberian peninsula during the 23d. On the 24th it was central over the southern part of the Bay of Biscay; on this day fresh easterly winds prevailed over the British Isles and central Europe, but on the 25th the area of low pressures extended to the French coasts, the English channel and the southern part of England, and the winds shifted to southerly on the French coasts and in the southern part of England. During the day the disturbance moved northeastward over the English channel, and on the 26th it was central over the North sea, between the southeast coast of England and the Netherlands, the area of disturbance having become contracted;

but on the 27th the decrease again extended over central Europe, and the region of least pressure was in southeastern Germany and in Austria. During the 26th and 27th general rains, accompanied by thunder-storms, occurred over northwestern Europe, and the temperature fluctuated irregularly. On the 28th the disturbance was still in Austria, while a slight but gradual increase of pressure had set in over the country to the westward. On the 29th the storm-centre remained in Hungary and was moving very slowly toward the Black sea. By the 30th the disturbance, having moved northeastward, was situated to the northeast of the sea of Azof, causing brisk to strong northwesterly winds in southwestern Russia. On the 31st the depression was central to the north of Orenburg, eastern Russia.

Of the depressions that occurred over Asia the following are charted:

XVIII.—This disturbance apparently moved eastward, south of Pekin, during the 5th, and on the 6th it was central over the Yellow sea, causing fresh to strong south and southwest winds and rain over Japan. It moved in a course slightly north of east, and on the 7th and 8th was central, with decreased pressure, in the island of Niphon; during the latter date it passed off into the Pacific and beyond the range of the observations.

XIX.—This disturbance appeared in central Siberia on the 10th, on which date the centre was near Yeniseisk, where the barometer read 29.63 (752.6), wind w., raining. On the 11th the centre of disturbance was northwest of Nertschinsk, and by the following day it had disappeared south of that station.

XX.—This depression developed in Siberia, between Yeniseisk and Barnaul, at which stations the barometer read 29.4 (746.7) on the 13th. During the day the centre moved eastward, and on the 14th it was between Lake Barkol and Nertschinsk, while the wind at Yeniseisk had shifted to northwest and increased to a moderate gale with snow and sleet. On the 15th the shift of wind at Nertschinsk indicated that the storm-centre had passed to the northeast of that station and beyond the range of the observations.

XXI.—From the 9th to the 16th an area of high but gradually decreasing pressure occupied eastern China and Japan, and on the latter date a depression, indicated by the isobar of 29.6 (751.8), appeared near Pekin. On the 17th the position of the centre apparently remained unchanged, but the decrease of pressure had extended southward to Zi-Ka-Wei and to Amoy. During the 18th and 19th a secondary disturbance appears to have developed in southern China, and passing northeastward, attended by rain at Hankow, probably merged with xxi. over the sea of Japan. On the 20th the disturbance passed into the Pacific, causing strong westerly winds near the fortieth parallel.

XXII.—On the 26th an extensive depression appeared in the vicinity of the Ural mountains; by the 27th it was shown near Yeniseisk, the pressure near the centre having decreased to 29.3 (744.2). On the 28th the pressure increased at Yeniseisk but remained low at Barnaul; on the 29th the increase became general over that part of central Siberia lying between 80° and 100° east longitude, while a decrease had set in to the eastward. On the 30th the depression was near Nertschinsk, where the barometer read 29.23 (742.4), wind sw. By the 31st the pressure had increased and the disturbance passed beyond the limits of the stations of observation.

The track of the first typhoon of 1881, shown on chart iii., has been copied from a tracing of the same in "The Typhoons of the Chinese Sea in the year 1881," an interesting and valuable work published by Mr. Marc Dechevrens, director of the Zi-Ka-Wei Observatory, Shanghai, China.

The following brief notes in connection with this typhoon are taken from the same publication:

The typhoon probably developed between the Pelew Islands and the Philippinas Archipelago, about 135° east longitude, and between 8° and 10° north latitude; it must have begun about May 14th, when the prevailing wind at Manila changed suddenly, but its progress was very slow at first, and its presence was not determined by the observer at Manila before the 22d. On the 23d, at 8 a. m., a telegram from Tayabas, nearly sixty miles southeast of the capital, showed that the barometer at that station was about .08 inch lower than at Manila; on the eastern coast of southern Luzon the wind blew strongly from the northeast, with heavy rain—the typhoon evidently approaching. At Manila, between 9 a. m. and 4 p. m., on the 23d, the barometer fell, and after 4 p. m. the wind oscillated between north and northwest. At sunset the horizon assumed a purple coppery hue, resembling the blaze of an immense fire. At 10 p. m. the wind blew strongly from the northwest, with heavy showers. At 8 a. m. of the 24th the centre of the typhoon was east of Manila; it entered the Laguna and moved directly westward. At about 10.30 a. m., according to observations taken on board the steamer "Lipa," anchored at Santa Cruz, the central calm extended over the Laguna; at 1 p. m. the wind abated and ceased for a few moments; at 1.15 p. m. it shifted suddenly from north-northwest to east-southeast, and increased in force. The barometer reached its lowest point, 29.52 (749.8), and remained stationary until 2 p. m., when it began to rise; the wind oscillated between east and southeast, and increased in violence till 2.45 p. m., when it attained a velocity of 75.4 miles. It then settled to the east-southeastward, thus keeping a direction of marked convergence to the centre, which was running away westward and entering the China sea. It thus appears that Manila, if not in the very path of the typhoon, was at least within the narrow circle of central calm. The observations made at the observatory, when compared with those taken on board the sloop of war "Doña Maria de Molina," lying at anchor at Canacao, and with those made at Corregidor island, at the entrance to Manila bay, indicate that the centre must have passed to the southwest at about 1.30 p. m. During the passage of the storm the wind was much more violent after than before the barometric minimum occurred, being stronger from east-southeast than from northwest; the strongest squalls attained a velocity of 88 miles an hour, but such violent blows were infrequent and of short duration; the maximum velocity generally did not exceed 72 miles an hour.

Moving from Manila the typhoon passed a little to the south of the Paracels Islands and touched the coast of Cochin China on the 29th, near the fifteenth degree of latitude. It then turned back towards the east, the deflection being caused probably by the coast line; and on again reaching the open sea it appears to have abated and soon disappeared entirely. During the progress of this typhoon the s. s. "Elgin" was totally wrecked on the Paracels Reefs, and several other vessels sustained more or less damage.

From the 22d to the 24th the mean velocity of the typhoon along the eastern coast of the Philippinas Archipelago appears to have been about four to five miles an hour. Between the 24th and 28th, over the China sea, it increased to about 13.5 miles. The typhoon, at the time its central region passed Manila, seems not to have exceeded one hundred and seventy-two miles in diameter from north to south. The region of calm and of barometric minimum must have been about eighteen or twenty miles in diameter, for, according to trustworthy observations taken on board the sloop of war "Doña Maria de Molina," the centre passed over Cavite, nine miles from Manila, which town was on the limit of the central calm. The barometric gradient in this typhoon was inconsiderable, the pressure at the centre being probably not less than 29.00 (736.6).

GENERAL REMARKS.

All data which appear in the DAILY BULLETIN OF SIMULTANEOUS METEOROLOGICAL OBSERVATIONS are copied from the regular exchanges of this office. The barometer readings for land stations, in the first and second columns, are reduced to freezing and their respective standards; those in the third and fourth columns to sea-level. When necessary, corrections for instrumental error, temperature, and reduction to sea-level are applied at this office. In the naval and marine series,

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

INTERNATIONAL CHARTS ACCOMPANYING THE DAILY BULLETIN AND MONTHLY SUMMARY.

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

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

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

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

International chart iii. shows tracks of centres of low barometer. Storm-tracks in red. The Arabic numerals show location of the centres of low barometer at 7 a. m., Washington mean time, of that date. Broken or dotted lines are doubtful.

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

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

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

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

BRITISH SERIES (furnished by co-operation of the Meteorological Council, London, Robert H. Scott, Esq., F. R. S., Secretary, and respective observers).—In general the originals do not give rainfall or distinction between upper and lower clouds. Relative humidity, except for Bradford and Silloth Rectory, is not given on the originals, but is computed from hygrometrical observations. At Cardington, Galway, Oxford, and Sandwick Manse the barometers are given as read off. The movement of the air is indicated by force on a scale of 0 to 12, except pounds pressure per square foot at Greenwich. At the following stations rainfall is measured at local time: Bradford, 9 a. m., and Aberdeen, 10 a. m. The wind direction is given to 32 points and weather by the Beaufort notation.

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

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

CHINESE SERIES (furnished by co-operation of Marc Dechevrens, S. J., Director of the Meteorological Observatory at Zi-Ka-Wei).—At Zi-Ka-Wei the originals give the barometer in millimetres reduced to sea-level and the temperature in Centigrade. The movement of the air is given in metres per second and the direction to 16 points. The kind of clouds is occasionally given, and the degree of cloudiness on the scale of 0 to 10; distinction between upper and lower clouds is sometimes made. The weather is given in general (French) terms. The rainfall is given in millimetres and measured at the moment of simultaneous observation. At Hankow the originals give the barometer in inches, temperature in Fahrenheit, and force on a scale of 0 to 10.

DANISH SERIES (furnished by co-operation of Captain N. Hoffmeyer, Director of the Royal Danish Meteorological Institute at Copenhagen).—The originals give the barometer in millimetres reduced to sea-level and the temperature in Centi-

grade. The movement of the air is indicated by force on a scale of 0 to 6. The weather is occasionally given by the Vienna symbols, but it is not certain that they always refer to the moment of simultaneous observations, except at Copenhagen. No distinction is made between upper and lower clouds, and the direction of movement, together with the rainfall, is entirely omitted.

FRENCH SERIES (furnished by co-operation of the Central Meteorological Office of France, Professor E. Mascart, Director, and respective observers).—The originals give the barometer in millimetres reduced to sea-level and the temperature in Centigrade. The movement of the air is indicated by force on a scale of 0 to 6, except in metres per second for Mont Louis and Perpignan. In general the rainfall is measured at 9 a. m., local time, but at Lyons at the moment of simultaneous observation. The direction of upper and lower clouds is given, but no distinction is made as to kind. The degree of cloudiness is given on a scale of 0 to 4 at Clermont-Ferrand and Puy de Dome, while at other stations the scale of 0 to 10 is employed, or general weather terms, from which the amount of cloudiness is inferred. The weather is given in general terms, except occasionally by the Vienna symbols at Mont Louis and Perpignan. At Guéret the observations are taken at 12 m., instead of 12.16 p. m. At Gap the observations are taken at 12.03 p. m., instead of 12.32 p. m.

GERMAN SERIES (furnished by co-operation of Prof. Dr. G. Neumeyer, Director of the German Marine Observatory at Hamburg).—The originals give the barometer in millimetres reduced to sea-level and the temperature in Centigrade. The movement of the air is indicated by force on a scale of 0 to 10. The kind of clouds is occasionally given, but no distinction is made between upper and lower; the amount is given on a scale of 0 to 10, but the kind is rarely given. The weather is given in Vienna symbols or in general terms. At Berlin observations are taken at 2 p. m., instead of 1.02 p. m.

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

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

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

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

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

MEXICAN SERIES (by authority of the Secretary of Public Works—furnished by co-operation of Señor Mariano Barcena, Director of the Central Meteorological Observatory in the City of Mexico, and respective observers).—All conversions (subject to correction at this office) are published as given in the originals. The kind of clouds is given, and also the direction and amount of both upper and lower. The degree of cloudiness is indicated on a scale of 0 to 10.

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

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

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

RUSSIAN SERIES (furnished by co-operation of Professor H. Wild, director of the Imperial Central Physical Observatory of Russia at St. Petersburg).—The originals give the barometer in millimetres reduced to sea-level and the temperature in Centigrade. At Astrakhan the barometer-cistern is below sea-level. The movement of the air is indicated by velocity in metres per second. No distinction is made between upper and lower clouds; the amount is given on a scale of 0 to 10, and the kind occasionally. The weather is occasionally given by the Vienna symbols. At Barnaul observations are taken at 6.18 p. m., local time.

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

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

SWEDISH SERIES (furnished by co-operation of Professor R. Rubenson, Director of the Royal Swedish Meteorological Institute, and of Professor H. H. Hildebrandsson, Director of the Meteorological Observatory of the Upsala University).—

The originals give the barometer in millimetres reduced to sea-level and the temperature in Centigrade. The movement of the air is indicated by force on a scale of 0 to 6, except in metres per second for Upsala. The kind of clouds is not given, but the degree of cloudiness is indicated on a scale of 0 to 10. The rainfall is measured at 8 a. m., local time, and the weather is occasionally given by the Vienna symbols.

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

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

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

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

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

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

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

UNITED STATES NAVAL SERIES (by authority of the Secretary of the Navy—furnished by co-operation of the Navy Department, through Commodore John G. Walker, U. S. N., Chief of Bureau of Navigation).—The originals give the barometer as read off. The humidity is not given, but is computed from the hygrometrical observations. The sea-swell and weather are given in general terms. The direction of the wind is compass direction, corrected for variation.

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

OCEAN SQUARES.—The table of ocean square data shows (1) the location of the centres of squares whose sides extend 5° each in latitude and longitude, (2) the number of days for which observations are at hand within the respective squares, and the total number of simultaneous observations reported on those days, (3) the monthly mean pressure and temperature of the air, and the mean force and total frequency of the wind at 7 a. m., Washington time, computed for the centre of each square from daily readings as obtained by interpolation between the isobars and isotherms of the daily international simultaneous weather-maps.

ERRATA.

Daily Bulletin, April 4th, 1882, page 4, North German Lloyd, s. s. "Salier," longitude E. 68° 34′, should read E. 8° 34′.

5th, page 6, British Naval, H. M. S. "Alert," temperature, Fahr., 82.2°, should read 88.2°.

8th, page 3, Netherlands, Utrecht, actual barometer, 30.28 inches, 769.2 mm., should read 30.32 inches, 770.2 mm.

11th, page 5, United States, Newport, Rhode Island, actual barometer, 754.6 mm., should read 755.6 mm.

23d, page 4, United States, Fort Assinnaboine, Montana, temperature, Centigrade, 5.8°, should read 5.0°.

26th, page 1, Austro-Hungarian, Kremsmunster, actual barometer, 29.17 inches, should read 28.17 inches.

28th, page 5, United States, Morgantown, West Virginia, actual barometer, 713.0 mm., reduced barometer, 739.4 mm., should read 738.4 mm. and 764.8 mm., respectively.

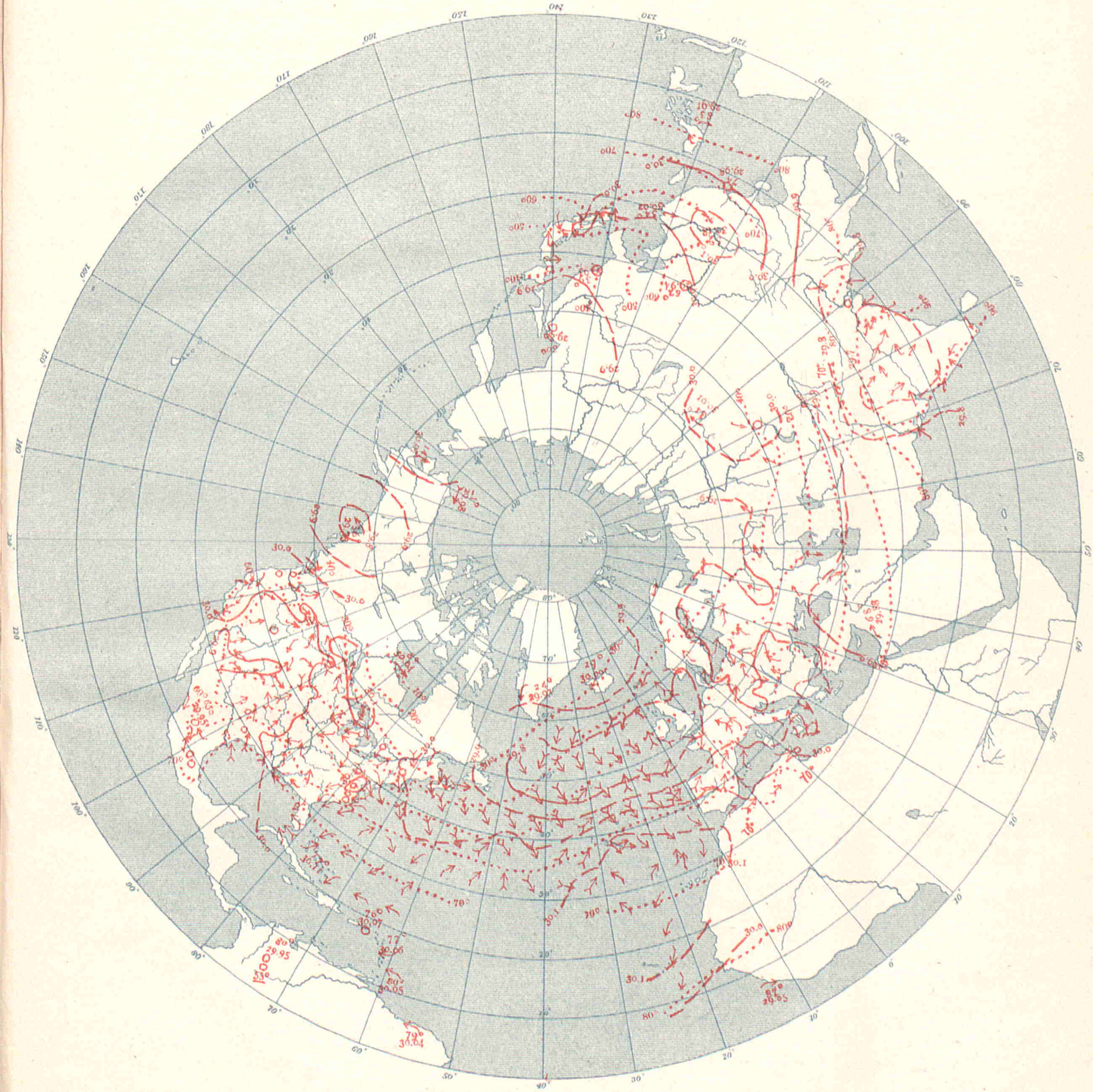
30th, page 2, French, Pic-du-Midi, temperature, 54.7° Fahr., 12.6° Cent., should read 34.7° Fahr., 1.5° Cent.

Attention is called to changes made in the latitude and longitude of the following stations of the United States series, which should date back to the first issue of SUMMARY: Camp Thomas, Detroit, Pike's Peak, Provincetown, Washington, Yankton.

PUBLISHED BY ORDER OF THE SECRETARY OF WAR.

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

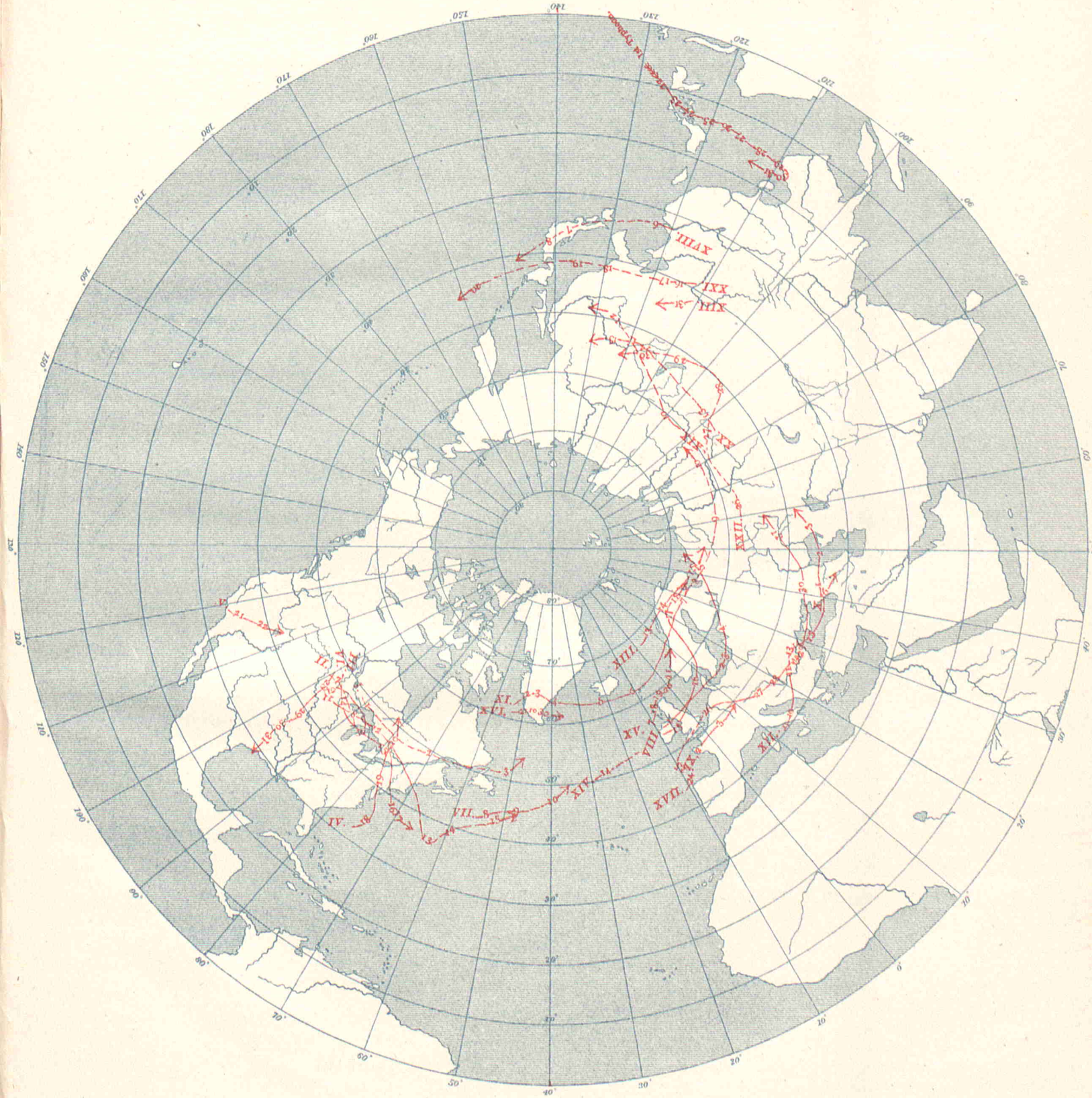
International Chart II. April, 1882. Isobars, Isotherms, and Winds.



UNITED STATES OF AMERICA.

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

International Chart III. May, 1881. Storm-Tracks.



UNITED STATES OF AMERICA.

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